



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

**Advertised/Single Tender Enquiry**

**Department: Electrical Engineering**

**Tender Notice No: NITR/PW/EE/2018/25**

**Date: 16.05.2018**

To  
DynaFusion Technologies Private Limited  
No 214 First Floor Bellary Road Sadashivnagar ,  
Bangalore 560 080 India  
Phones +91 8041137614/15  
Fax 91 8040952259

**IMPORTANT DATES**

Through

**CPP Portal**

**(e- Procurement)**

<b>Event</b>	<b>Date</b>	<b>Time</b>
Last date of submission of Bid	<b>31.05.2018</b>	<b>11:00 AM</b>
Opening Date of Technical and Financial Bid:	<b>01.06.2018</b>	<b>11:00 AM</b>

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: Prof. Susovon Samanta,  
Dept. of Electrical Engineering  
National Institute of Technology  
Rourkela- 769 008, ODISHA  
Phone: 0661 – 2462420  
Fax: 0661 – 2462999  
E-mail: [samantas@nitrkl.ac.in](mailto:samantas@nitrkl.ac.in)

Yours sincerely,

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Prof. S. Samanta  
Electrical Engineering  
PID: - SR/16/EE/036

**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.	dSPACE_ACE_MLBX_1320T (As per the specification attached in the <b>Annexure-I</b> )	<b>1</b>

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 single bid; please give all technical specifications and price bid in one envelope

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 closing date of the bid.

6. Some important dates:

- |      |  |                  |                 |
|------|--|------------------|-----------------|
| i.   | Pre-bid Conference                                 | Date: <b>NA</b>  | Time: <b>NA</b> |
| ii.  | Last date for submission of bid                    | Date: 31.05.2018 | Time: 11:00 AM  |
| iii. | Opening of techno-Commercial bid and Financial Bid | Date: 01.06.2018 | Time: 11:00 AM  |

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

8. A) **Excise Duty:** The Institute is exempt from Excise Duty. Please state applicable excise duty as a separate item.  
B) **GST:** GST should be charge according to applicable rates.

9. **Bid Security:** Not applicable

10. **Performance Security:** Not applicable

11. **Tender Fee (Not-refundable): INR 1,000/- (One thousand only)** in shape of Demand Draft (DD) in favour of Director, National Institute of Technology, Rourkela Payable at Rourkela has to be reached to Registrar, NIT Rourkela **on or before 31/05/2018; 11:00AM** through Speed Post/Registered Post/ Courier with tender reference number and subject.

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

Prof. Dr. Susovon Samanta  
Department of Electrical Eng.  
National Institute of Technology, Rourkela – 769 008  
Phone: 0661 – 2462420  
Fax: 0661 – 2462999  
E-mail: [samantas@nitrrkl.ac.in](mailto:samantas@nitrrkl.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– 769 008, 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. In case the above date is declared a holiday for NIT, Rourkela, and the bids will be received up to the appointed time on the next working day.
- 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 Bids received after the deadline of receipt indicated in para 1.4 above, shall not be taken in to consideration.
- 1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered non-responsive.
- 1.9 (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.
- 1.10 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-vole rum 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-vole rum rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

**It may be noted that the Institute is exempt from paying Excise Duty vide Government Notification No. 10/97 dated 01.03.1997 [Registration No.: TU/V/RG-CD (227)/2011, dated 10.11.2011]. The Institute is not authorized to issue C or D forms. GST may be charged at applicable**

- 2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **60 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 Rourkela shall be final.
- 2.14** The bid document/resultant contract will be interpreted under Indian Laws.

## **Annexure-I**

### **DETAILED TECHNICAL SPECIFICATION for Purchase of dSPACE\_ACE\_MLBX\_1320T**

Bidders are invited from authorized vendors of dSPACE GmbH for dSPACE\_ACE\_MLBX\_1320T (MicroLabBox) *with all required accessories.*

#### **dSPACE ACE KIT-MICROLABBOX SPECIFICATION**

- Processor:
  - a) 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
  - b) Freescale QorIQ P1011 800 MHz for communication with host PC
- Memory: 1 GB DRAM , 128 MB flash memory
- Interfaces:
  - a) Host Interface- Integrated Gigabit Ethernet I/O interface
  - b) USB Interface- USB 2.0 for data logging & booting applications
  - c) CAN interface- 2 CAN channels (partial networking supported)
  - d) Serial interface- 2 X UART (RS232/422/485) interface
- FPGA: Xilinx Kintex -7 XC7K325T FPGA
- Analog input:
  - a) 8 14-bit channels, 10 Msps , differential
  - b) 24 16-bit channels, 1 Msps , differential
  - c) Input voltage range- -10 V to 10 V
- Analog output:
  - a) 16 16-bit channels, 1 Msps
  - b) Output Voltage range- -10 V to 10 V
  - c) Output current- +/- 8 mA
- Digital I/O:
  - a) 48 bidirectional channels, 2.5/5 V (single ended)
  - b) 12 bidirectional channels (RS422/485 type) to connect sensors with differential interfaces
- Sensor supply:
  - a) 1 x 12 V, max. 3W/250 mA(fixed)
  - b) 1 x 2 to 20 V, max. 1W/200 mA(variable)
- Feedback elements:
  - a) Programmable buzzer
  - b) Programmable status LEDs
- Cooling: Active Cooling (temperature-controlled fan)
- Physical characteristics:
  - a) Dimensions- Approx. 310x250x115 mm
  - b) Power supply- 100 to 240 V AC , 50 to 60 Hz
  - c) Power Consumption- 125 W
- Softwares:
  - a) Experimentation Software – Control Development Software Package , MLBX GNU Compiler with USB Dongle
  - b) Implementation Software- RTI E-Motor Control Blockset