



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर
National Institute of Technology Durgapur
Mahatma Gandhi Avenue, Durgapur-713209
West Bengal, India

Tender- Notice

Enquiry no: NITD/SRG/2020/Notice/2
(against Project no: NITD/SRCC/SR/ECE/2019/36)

Date: 29/09/2020

All the concerned vendors/suppliers are requested to submit a competitive quotation (Limited Tendering) for the supply of following instrument as per specification given below

SI. No.	Brief Description of the Items	Quantity	Minimum Specification
01.	Digital Mass Flow Controller (MFC) with programmable gas selection options and gas flow range (one MFC with 1-100 SCCM and one MFC with 100-500 SCCM, respectively)	02	Details are given in the attachments (Annexure 1)

General Terms and Conditions:

- 1) All duties, taxes and other levies payable by the bidder shall be included in the total price for instrument along with free delivery charges.
- 2) The rates quoted by the bidder shall be fixed for the duration of the contract.
- 3) The bidding price must be quoted in Indian Rupees.
- 4) Quotation should remain valid for 30 days from date of quotation submission.
- 5) All other terms and conditions will be followed as per GFR 2017 and NIT Durgapur purchase rules. Settlement of any dispute will be made under the jurisdiction of Honourable Durgapur Court.
- 6) Delivery to be made at department of Electronics and Communication Engineering, NIT Durgapur.
- 7) Terms and conditions of warranty, if applicable must be documented clearly
- 8) Payment details must be stated clearly.
- 9) Delivery should be made with in 5 weeks from the acceptance of purchase order.
- 10) Installation, Commissioning and demonstration will be performed within 15 days of delivery of the items. Installation, Commissioning and demonstration must be delivered at the day of installation.
- 11) Payment shall be made immediately with in 60 days after satisfactory installation. Payment will be released only after receiving the installation and demonstration certificates.
- 12) Comprehensive onsite warranty shall be applicable to the supplied goods for a period of 12 month from date of installation. Terms and condition of warranty, if applicable, must be documented clearly.
- 13) The purchase will be awarded the contract to the bidder whose quotation has been determine to be substantially response in terms of technical specifications for and who has offered the lowest quotation price.
- 14) The institute is exempted from payment of the custom and excise duty on the item mentioned below: Scientific and technical instruments, apparatus, equipment's, accessories, spare parts and consumables.
- 15) The required documents such as "custom duty exception certificate" and "Declaration of GST concession" will be provided to the successful bidder at the time of purchase order.

The related quotation is to be submitted by email at sapana.ranwa@ece.nitdgp.ac.in within one week from date of notification along with enquiry number and reference number as given in this notice. The quotation must be addressed to **Dr. Sapana Ranwa, PI- SRG project, Department of Electronics and Communication engineering, NIT Durgapur, M.G. Avenue, Durgapur-713209, West Bengal, India.**

With the approval of competent authority.

Sapana

(Dr. Sapana Ranwa)
PI, SRG Project



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TECHNICAL SPECIFICATIONS:
Annexure I
Mass Flow Controller (MFC)

SI. No.	Specification	Detailed Description
01.	Digital Mass Flow Controller (MFC) (quantity- 2 Nos.)	<ol style="list-style-type: none">1. Gas Flow: 0-100 SCCM (for 1 MFC) and 100-500 SCCM (for 1 MFC)2. Operating range: 0.5% to 100 % full scale measurement3. <u>Compatible gases</u>: approx. 30 pre-loaded selectable gas calibrations (Air, Argon, Nitrogen, hydrogen etc.) ; additional mixtures definable with COMPOSER4. Monochrome LCD or Color TFT Display with integrated touchpad Simultaneously displays Mass Flow, Volumetric Flow, Pressure and Temperature5. System connector: RS 232 Serial6. 1/8th Swage Lock type fitting7. Suitable power supply8. Accuracy at calibration conditions after tare $\pm (0.8\% \text{ of Reading} + 0.2\% \text{ of Full Scale})$9. Sensor response time <1ms10. Operating Temperature:- 10 °C to +50 °C11. Humidity Range: 0 to 100 % Non condensing