



राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

(संसद के अधिनियम के अधीन स्थापित राष्ट्रीय महत्व का एक संस्थान)

जायस ,अमेठी, उत्तर प्रदेश, भारत-229304

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi - 229304, Uttar Pradesh, India

QUOTATION ENQUIRY

Ref. No.: RGIPT/Jais/R&D/CHEM/P-2218/2022-23/KM/03

Dated: 15.03.2023

Last Date and time for the quote: 27.03.2023 till 13:00 hours in the Office of the Department of Chemical Engineering and Biochemical Engineering, 5th Floor, AB-2, RGIPT, Jais, UP-229304.

Dear Sir(s),

Please submit your lowest quotation for supplying the under mentioned item. Quotation in duplicate must reach us before the date marked above and should contain the following information:

1. Clearly mention the date of validity of offer.
- 2. Kindly clearly mention your E-mail ID and Mobile number.**
3. Kindly mention appropriate GST % as applicable for supplying of Goods & Services to educational institution.
4. Please mention your GST registration number and PAN in the quotation.
5. Conditions of supply and terms of payment shall be clearly mentioned in the quotation.

Quotation must be sent in **sealed envelope** with word **“QUOTATION for Mass Flow Controller for syngas”** and addressed to Office of the Department of Chemical Engineering and Biochemical Engineering, 5th Floor, AB-2, RGIPT, Jais- 229304 (UP). Our reference number and last date as given above should be clearly marked over it.

Details of the item are as follows:

Item Name: Mass flow controller for syngas.

Quantity: 01 Nos.

| S. No. | Specifications |
|--------|--|
| 1 | Flow range: 0-100 SCCM |
| 2 | Steady State Control Range: 0.01–100% of full scale |
| 3 | Accurately measure the flow rates of H ₂ , CO, CO ₂ , CH ₄ , C ₂ H ₆ , C ₂ H ₄ , N ₂ , O ₂ , Xe, Kr, N-butane, I-butane, syngas, Air, Ar, and their combinations. Should be able to measure all typically used gases used in the lab. |
| 4 | Multi gas calibrated: as listed in Sr. 3. |
| 5 | Must have an inbuilt display with keypad control |
| 6 | Digital display: Mass flow rate, Volumetric flow, Temperature & Pressure |
| 7 | Safe operation inlet and outlet pressure range: 0-10 bar (max) |
| 8 | Accuracy: ±0.6% of reading or ±0.1% of full scale, whichever is greater |
| 9 | Operating temperature range: –10°C to +60 °C |
| 10 | Repeatability: ± 0.2% Full Scale |

| | |
|----|---|
| 11 | Warm up time: less than 1 second |
| 12 | Maximum Controllable Flow Rate: Above 100% of the full scale |
| 13 | Valve type: Normally closed |
| 14 | Typical Response Time: Should be less than 10ms (with provision for adjustment) |
| 15 | End Connections: 1/8-inch female NPT type process connections |
| 16 | Must be provide with the calibration certificate |
| 17 | Digital display type: Backlit monochrome LCD screen |
| 18 | Should be able to connect with the computer for continuous data logging. |

N. B.: Other terms & conditions pertaining to item mention are mentioned below:

1. Supply must be executed in full within the four weeks of release of PO.
2. Penalty will be deducted in case of delay in supply as per the institute norms.

Dr. Karan Malik
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Department of Chemical Engineering and Biochemical Engineering,
RGIPT, Jais