



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

### **Tender- Notice**

Enquiry no: NITD/RIG/2019-21/Notice/1  
(Against Project: RIG/2019-21/Dr. S. Ranwa )

Date: 18/12/2020

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

SI. No.	Brief Description of the Items	Minimum Specification
01.	Gas Sensing Chamber Setup	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 the warranty, if applicable must be documented clearly
- 8) Payment details must be stated clearly.
- 9) Delivery should be made within 6 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 within 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 months from the 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 determined 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 "customs 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](mailto: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-RIG project, Department of Electronics and Communication Engineering, NIT Durgapur, M. G. Avenue, Durgapur-713209, West Bengal, India.**

With the approval of competent authority.

(Dr. Sapana Ranwa)  
PI, RIG Project



**TECHNICAL SPECIFICATIONS:**  
**Annexure I**  
**Gas Sensing Chamber Setup**

SI. No.	Specification	Detailed Description
<b>Gas sensing Chamber</b>		
01.	Vacuum Chamber	<ul style="list-style-type: none"><li>• Stainless steel vacuum chamber with industrial-grade vacuum gasket</li><li>• Gas inlet and outlet valves (With stainless steel needle valves and high-pressure ball valve)</li><li>• One top window for UV irradiation</li><li>• One air inlet valve</li></ul>
02	Digital Pirani Vacuum Gauge	<ul style="list-style-type: none"><li>• Measuring Range: Vacuum: 999 to 0.001 mBar</li><li>• Display: 4 Digits Auto-Ranging,</li><li>• Input: 1 No.</li><li>• Power Supply: 230 VAC, 50 Hz., Single Phase</li><li>• Accessories: Flanges, Clamps, O Rings , Main Chord;</li></ul>
03	Rotary Vane Vacuum Pump	<ul style="list-style-type: none"><li>• Dual-stage vacuum pump</li><li>• KF 25 Stainless steel vacuum bellow (1 ft) with wing nut flange quick clamps, centring ring, manual angle stainless steel valve</li><li>• 230 V standard power cord</li></ul>
04	Heating Assembly	<ul style="list-style-type: none"><li>• Closed substrate Heater (up to 250 °C) with power supply and PID controller, PT-100/k-type thermocouple temperature sensor</li></ul>
05	Electrical contact probe kit	<ul style="list-style-type: none"><li>• 2 micromanipulators with tungsten tips of 25-micro tip dia electrical probes with BNC female connector (for electrical connection)</li><li>• Total 3 BNC female connectors for electrical output (2 must be connected to micromanipulators with tungsten tip electrical probes and one spare connection)</li></ul>