**Quotation Invitation**

NIT Uttarakhand invites the online Quotations for the purchase of Item “Vapor absorption refrigeration system/cycle test rig” as per the specifications mentioned below:

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Description of Goods** | **Specification** | **Quantity** |
| 1 | Vapor absorption refrigeration system/cycle test rig | 1. Operation of an absorption refrigeration system. 2. Main system components: evaporator, generator, expansion device, condenser. 3. Generator: Electrically heated 4. Condenser: Natural convection type 5. Evaporator: Coil type evaporator with facility to determine performance efficiency ratio (PER). 6. Refrigerant: Mixture of three fluid systems H2O(Water), NH3(Ammonia), H2(Hydrogen). 7. Gross volume: 40-50 litres 8. Material of construction: M.S. 9. Power supply: 220-240 volts, 50 Hz, 1 phase 10. Energy consumption: Minimum Average input 60 W 11. Control Panel: Control Panel should be provided with Voltmeter, Amp Meter, Digital Temperature Indicator with PT 100 Type Sensors for various Temperature measurements.   Detailed manual consisting of experimental procedures, block diagram etc. must be provided along with the Apparatus. **Warranty:** One Year | 01 |

The deadline to submit the quotation through online (emails) to the following Email address is on or before 30/12/2022, 05:00 PM.

Dr.Deepak Kumar, [deepak.kumar@nituk.ac.in](mailto:deepak.kumar@nituk.ac.in), +91-8791671176

Dr.Abhinav Kumar, [abhinav.kumar@nituk.ac.in](mailto:abhinav.kumar@nituk.ac.in), +91-84305862247

Dr.Niraj Kumar Mishra, [nkm@nituk.ac.in](mailto:nkm@nituk.ac.in), +91-9678423858

**Guidelines:**

1. Quotation must be submitted only in the prescribed format (**Annexure I**).
2. The quotation format must be printed on the letter head of the vendor with seal and signature. Invalid quotations shall directly be rejected without any communication.
3. The quotations **must be password protected and** **only in PDF format**. The committee will contact through given mobile number to the respective vendor at the time of quotation opening.
4. Clearly mentioned your contact number in the mail body.
5. After due date and time, no quotation will be considered for processing.
6. The quotations will be evaluated as per GRF 2017 guidelines.
7. Institute reserves the right to cancel the procurement process at any given point of time.
8. For more information, contact the above committee members.

Sd/-

I/c, Registrar

**Annexure I**

Format

**Printed on Company letter head**

GST Number:---------------------------------------------

PAN number:-------------------------------------------

Date:

To,

The Director,

National Institute of Technology Uttarakhand,

Srinagar, Garhwal-246174

**Subject:** Online quotation for the supply of “**Vapor absorption refrigeration system/cycle test rig**”.

Specifications:

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Description of Goods** | **Specification** | **Quantity** |
| 1 | Vapor absorption refrigeration system/cycle test rig | 1. Operation of an absorption refrigeration system. 2. Main system components: evaporator, generator, expansion device, condenser. 3. Generator: Electrically heated 4. Condenser: Natural convection type 5. Evaporator: Coil type evaporator with facility to determine performance efficiency ratio (PER). 6. Refrigerant: Mixture of three fluid systems H2O(Water), NH3(Ammonia), H2(Hydrogen). 7. Gross volume: 40-50 litres 8. Material of construction: M.S. 9. Power supply: 220-240 volts, 50 Hz, 1 phase 10. Energy consumption: Minimum Average input 60 W 11. Control Panel: Control Panel should be provided with Voltmeter, Amp Meter, Digital Temperature Indicator with PT 100 Type Sensors for various Temperature measurements.   Detailed manual consisting of experimental procedures, block diagram etc. must be provided along with the Apparatus. **Warranty:** One Year | 01 |
| GST(@\_\_\_\_\_\_) | | |  |
| Total amount (INR) | | |  |

Terms and Conditions of the vender/supplier (if any)

Name and Signature of

Company head with seal

**Compete address with contact number at footer.**