

College of Engineering Trivandrum, Thiruvananthapuram

NOTICE INVITING TENDER

P5/3203/20/CET

30.06.2020

Tender No. : 13/2020/P5/ME/MODROB

E-Tender ID : 2020_DTE_368840_1

Superscription :Purchase of High Temperature Box type Furnace and Tubular Furnace for the Mechanical Engg. Department of this institution

Last date and time of receipt of tender on the website (www.etenders.kerala.gov.in) : 28/07/2020 3 PM

Date and time of opening of tender : 30/07/2020 11 AM

Date upto which the rates are to be firm : 30/01/2021

Bidding fee : Rs.826/-(Rs.700/-+18%GST)

EMD required : Rs.3150/-

Address of the Officer to whom hard copy is to be send. : THE PRINCIPAL, COLLEGE OF ENGINEERING TRIVANDRUM, THIRUVANANTHAPURAM-695016, KERALA GSTIN:32AAAGC0358L1ZP

Schedule of Items

| Sl. No | Item | Specifications | Quantity |
|--------|--|--|----------|
| 1 | HIGH TEMPERATURE BOX TYPE FURNACE (MUFFLE) | Horizontal, Box Type, with opening in the front Outer chamber -fabricated from mild steel sheet sections with reinforcement for mechanical rigidity. Front opening will be provided with a hinged door for effortless opening and closing of the chamber Working Chamber Dimensions: 150mm W x 150mm H x 300mm D. Heating element: Silicon Carbide rods Rated Maximum Temperature: 1400°C. Continuous Operating Temperature: 1300°C. Temperature Control : By Microprocessor Based Programmable PID Controller. Accuracy: About 1°C. Sensor : Platinum /13% Rhodium Platinum. | 1 |

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|---|----------------------------------|---|---|
| | FURNACE) | <p>Operating Voltage: 230V, 1Ph, 50Hz, 32Amps Current Rated AC Power Point.</p> <p>Power Rating : 5.0 KW.</p> <p>Control cubicle with following accessories</p> <ul style="list-style-type: none"> • Microprocessor Based Programmable P. I. D. Controller. • Thyristor Power Drive Unit. • Ammeter and Voltmeter. • Switches and Indicators. • Safety Fuse. • 2Mtrs Length in each of Input, Output, Earth and Thermocouple connecting leads. | |
| 2 | HIGH TEMPERATURE TUBULAR FURNACE | <p>Horizontal, With Tubular Working Chamber</p> <p>Outer chamber -fabricated from mild steel sheet sections with reinforcement for mechanical rigidity.</p> <p>Insulation on all sides with high temperature resistant Low thermal mass Ceramic Fibre Blanket.</p> <p>Heating element: Silicon Carbide</p> <p>Hot zone houses a removable high alumina content high temperature resistant Refractory Tube to act as specimen holding chamber.</p> <p>Hot Zone Dimensions : 50mm Dia x 250mm Long.</p> <p>Refractory Tube Dimensions : 50mm I.D. x 1000mm Long.</p> <p>Maximum Temperature : 1400°C.</p> <p>Cont.Operating Temperature : 1300°C.</p> <p>Temperature Control : By μP based Programmable PID Controller.</p> <p>Accuracy:About 1°C.</p> <p>Sensor :Platinum/13% Rhodium Platinum.</p> <p>Operating Voltage: 230V, 1Ph, 50Hz, 32Amps current rated AC power point</p> <p>Power Rating : 5.0KW.</p> <p>Control cubicle with following accessories MicroprocessorBased Programmable P.I.D. Controller.Thyristor Power Drive Unit.</p> <ul style="list-style-type: none"> • Ammeter and Voltmeter. | 1 |

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|--|--|--|--|
| | | <ul style="list-style-type: none">• Switches and Indicators.• Safety Fuse. <p>2Mtrs Length in each of Input, Output, Earth and Thermocouple connecting leads.</p> | |
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General conditions

- 1.The price quoted should be inclusive of all taxes, freight charges, unloading charges, installation and commissioning charges and should be furnished unambiguously.
- 2.Payment: 100 % after successful supply, installation, commissioning and demonstration.
- 3.Delivery Period: Maximum Delivery period will be 60 days from the date of receipt of supply order.
- 4.Agreement as per NIT 2 in **Rs.220/-** Kerala Stamp Paper and tender form should be uploaded.
- 5.5% security deposit along with agreement should be furnished within a month/fortnight from the date of receipt of supply order.
- 6.Date of opening of tender: In case the proposed date declared as holiday, the tender will be opened on the next working day.
- 7.After E-Tendering the hard copy of all documents such as agreement, brochure, should be submitted before the opening date.
- 8.Only GST registered firms can participate in the Tender
9. **Warranty : 5 years**

NB: The Tender procedure will be made as per Rules mentioned in the Revised Store Purchase Manual.

The bidders should participate this tender through E-Tendering System. Tender cost and EMD should be submitted only through online. For more details Contact Ph.0471 2577088, 0471 2577188, 0471 257388, 0471 2515772, 9447295213

**Sd/-
PRINCIPAL**