

CORRIGRNDUM

Tender Title: Purchase of Gradient Three Zone Furnace and High Temperature Box Furnace.

Tender ID: 2020_IITK_540183_1

Tender Ref. No.: IITK/PHY/JN/2019-20/19

In the above aforesaid tender, the following extra technical specifications have been added.

All other terms and conditions remain unchanged.

**Technical specifications of High Temperature Box Furnace:
Following features/ specifications are required:**

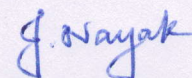
A: Technical specifications:

- Maximum operating temperature: 1200°C
- Maximum continuous operating temperature (at least for 7 days) \geq 1100°C
- Volume Litres \geq 13
- Not Less than Inner Dimension (mm)- 198 x 200 x 320
- Not more than Outer Dimension (mm)- 665 x 450 x 618
- Door positive break safety switch Isolates power to the heating elements when door is open
- Heat up Time (to max operating temperature): Less than 80 minutes
- Up & away parallel opening door to keep hot face away from user
- Hard wearing alumina element carriers, furnace entrance & hearth
- Free radiating wire wound elements for optimum Uniformity
- Low outer case temperature (less than 70C) needs to be provided through double shell construction ISO 9001:2015 or latest certificate has to be attached
- Low thermal mass insulation for energy efficiency & rapid heating & cooling
- Furnace should be -240 V single phase+ N
- Max Power- 5000W
- Instrument should be "EC" Confirming

B- Programmable controller:

The controller provides programmable temperature control using at least 8 segments. Each segment should comprising of a ramp followed by a dwell. Dwells may be set to zero time.

- Control technology: PID
- Basic functions: Each program accepts at least 8 'paired' segments comprising 1 ramp and 1 dwell
- Additional functions: A single program may be stored
- Alarms: High-low deviation, sensor break, event or element failure
- Communications: Optional RS233 or RS485
- Configuration: Panel mounted



**Inviting Office
Dr. Jayita Nayak**