## Indian Institute of Technology Kanpur

## **Physics Department**

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Sub: Inviting quotations for furnace (1700 C) and spares

Sealed two part bids (separate technical and financial) are invited for the following items

## 01 Muffle or chamber type upto 1700°C with following features:

(a) Chamber size approximately: 125 mm (W)x150 (H) x 250 (D)

- (b) Floor mounting structure with front-loading heating chamber having stainless steel sheet & painted M. S. paneling.
- (c) Insert type swing-aside parallel-moving Door.
- (d) Fan cooling to ensure low skin temperature
- (e) Thyristorised Circuitry with adjustable current limit and soft-start features for maximum protection to heating elements.
- (f) Adjustable over-temperature cut-out with audio signal to ensure overall safety.
- (g) Micro-processor based Digital PID Temperature Controller / Programmer with Thermocouple in pure Alumina Sheath (Eurotherm controller preferred).
- (h) Temperature Control Accuracy within ±1°C of set point.
- (i) Temperature uniformity within ±5°C near Tmax with soaking.
- (i) Continuous operation for at least 48 hrs at 1600 C

## Please note the following points while preparing quotations:

- 1. Specify heating element life in thermal cycles under normal use.
- 2. Specify make and quote for cost of each heating element.
- 3. Provide user list of furnaces supplied in last two years of similar capability.
- 4. If authorized distributor, provide authorization letter from manufacturer.
- 5. Mention warranty and terms of service.
- 6. Provide costing and specifications of all spares.
- 7. Send relevant technical literature.
- 8. Mention delivery and work schedule.

Please send your quotations valid for at least 60 days with detailed specifications on or before September 16, 2013 to the following address:

Rajeev Gupta Department of Physics, IIT Kanpur 208016

Thank you,

Sd/-

(Rajeev Gupta)

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