



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

No. PHY/MLSU/FIST/FURNACE/2014/1846

24th November 2014

PURCHASE ORDER

28

To

M/s Naskar and Company
¼, Lakshmi Narayan Tala Road
Howrah 711103 (W.B)

REF: E-TENDER No.MLSU/PHYSICS/FIST/2014/ET-1 Item 4. High Temperature Furnace

Dear Sir,

With reference to your tender against the above cited E-tender, We are pleased to place an order for supply of High Temperature Furnace as per following details:

| Sno | Item | Qty | Cost(CIP Cost at Delhi Airport) |
|-----|--|-----|---------------------------------|
| 1 | Supply, Installation, performance demonstration of High Temperature Furnace Electro heat EN170QT having technical specifications given below | One | 5,43,712/- |
| | TOTAL | | 5,43,712/- |

Technical Specifications of the Equipment

TECHNICAL SPECIFICATIONS

1. Supply, installation, performance and demonstration of High Temperature Furnace at the Department of Physics, Mohanlal Sukhadia University, Udaipur

The equipment must have following specifications

1. Type: Front Loading Chamber Furnace
2. Temperature controller with Digital Programmer
3. Max. Temp. : 1800°C
4. Max. Power : 6 kW
5. Chamber dimensions (mm-HxWxD): H : ~ 210, W : ~190, D : ~ 190
6. Volume : ~7-8 litres
7. Adjustable over temperature protection
8. Heat up time (minutes to 100° C below maximum temperature): ~50
9. Temperature variation: 4°C over 120 mm or better
10. To ensure good thermal uniformity: Powerful MoSi₂ elements needed on both sides of the chamber and thick diameter MoSi₂ elements to withstand the stress of everyday operation and provide good longevity.
11. Low thermal mass insulation and good element design to ensure energy efficiency and

- rapid heating.
12. Manually operated vertical counter-balanced door should keep hot door insulation away from operator.
 13. Positive break door safety switches to isolates chamber from power supply, when the door is opened.
 14. Double skinned construction to allow fanned air flow to cool the outer case.
 15. Should meet Indian electricity supply conditions.
 16. Manual and connecting cables
 17. 1.5 years warranty for the equipment

Applications: Solid state synthesis, and firing & sintering of ceramic samples, annealing and sintering of samples like: metal oxides, alloys silicon, silicon carbide, nitride, alumina etc.

Terms and conditions:

1. The supply, installation and commission of the equipment must be made as per terms and conditions of the E-tender
2. The firm will be required to submit an agreement (available on web site www.mlsu.ac.in) on a Non-Judicial Stamp paper agreeing to supply and install the equipment and demonstrate the performance as per terms and conditions of the tender as per specifications of the equipment and also required to submit a Bank Guarantee/Demand Draft for 5% of the cost of the equipment Rs. 27,186/- on or before ~~1-12-2014~~ 8-12-2014 *for*
4. The equipment must be supplied within a period one month from the date of this order

Lakshmi
HEAD HEAD
Department of Physics
Mohanal Sukhadia University
Udaipur

C.S.
2/12/14
COMPTROLLER
Sukhadia University
Udaipur