

**DEPARTMENT OF CHEMISTRY
INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

Enquiry No. IITK/CHM/MW/17-18/01

Opening Date: 19.05.2017

Closing Date: ~~02.06.2017~~

12-06-2017

Subject: Request for quotation for a laboratory microwave (MW) heating oven (to be used for scientific purposes, not for heating food).

Kindly send a quotation for laboratory MW heating oven with following technical specifications:

Quantity: One

Technical Specifications:

1. MW oven of frequency 2.45GHz and of at least 2 kW adjustable output power (actual power, not the on/off time cycles of the magnetron).
2. Dimension of the MW system should be small. Applicator cavity should be of around 300 mm and suitable for multimode operation.
3. MW can have either single or multiple magnetrons.
4. Cooling facility for magnetron.
5. An exhaust fan for the cavity of MW oven.
6. Inner walls of the cavity of MW oven should be made of suitable corrosion resistant metal.
7. Base of the cavity should be made of high temperature resistant material.
8. Uniform distribution of MWs inside the cavity.
9. A view port, covered with a perforated metallic sheet, should be fitted to the system.
10. Digital timer panel accurate to 1 second.
11. Safety features (door Interlocks, emergency switch off, MW leak proof)
12. System should have warranty of atleast one year (desirable for 2 years).
13. Crack resistant, high quality quartz reaction vessel that can withstand high temperatures, should be supplied along with the MW system.
14. Gas purging/vacuum evacuation lines to be attached to the MW cavity, which can be connected to the reaction vessel if needed.
15. A remote switch for turning the MW oven On/Off.
16. After installation following features of the MW should be demonstrated, power and controls as described and also the standard MW leak proof test.

Note:

- 1) Suppliers are required to clearly specify the cost of the item, technical specifications in detail, warranty period, delivery time, payment terms, taxes and other charges (if any).
- 2) Earlier delivery may be preferred.
- 3) Validity of quotation should be at least for 60 days.
- 4) If the supplier's offer differs from the specifications as mentioned above, these differences should be clearly indicated by the supplier in their quotation.
- 5) Transportation conditions such as FOR/Ex-works/ To & Fro charges should be clearly mentioned in the quotation.
- 6) Educational discount should be applied considering end use for research.
- 7) Institute reserves right to withhold placement of final order. The right to reject all or any of the quotations and to relax any or all of the above conditions without assigning any reason is reserved.
- 8) The supplier should provide proprietary certificate, if applicable.
- 9) There should be separate bid for Technical and financial. The technical bid containing financial details will be cancelled. The financial bid envelope should contain only price information. All other specifications and supporting documents should be enclosed in the technical bid.

Please send your quotation for the above (original signed in sealed envelopes) in favor of Dr. Reeti Bajpai latest by, ~~2nd June 2017~~ 12 June 2017.

Regards

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