

**Sealed quotations are invited from manufacturer/authorized dealers/service providers for supplying Microwave reactor as per technical specifications listed below.**

**General terms and conditions**

1. The tender notice may be withdrawn at any time without assigning any reason thereof.
2. The decision of the departmental purchase committee in this matter is final.
3. DSIR certificate, road permit etc. will be provided by the department as and when required.
4. The instrument along with required accessories should be delivered at the Dept. of Chemistry, NEHU, Shillong in good and working condition.
5. The quotation should be drawn in the name of **‘The Coordinator, UGC-SAP-CAS Programme, Department of Chemistry, NEHU, Shillong – 793022, Meghalaya’**
6. The instrument should have three years warranty and two additional years of extended warranty (quote separately).
7. A letter from the Principal should also be furnished guarantying that all the terms and conditions agreed by the supplier as written in the quotation as well as in the tender notice will be taken care of by the Principal in the event the supplier departs the Principal.
8. Payments terms must be either Letter of Credit or Wire transfer after delivery of the consignment.
9. Incomplete offer will be summarily rejected.
10. The last date submission of quotation is 09/06/2017.

Sd/-  
**The Coordinator, UGC-CAS**  
Department of Chemistry  
NEHU, Shillong  
Dated: 5th May, 2017

### **Specification for Microwave Reactor**

Microwave reactor that provides a self-tuning feature to insure optimal field tuning to all samples. The platform should include:

- (i) Temperature range Up to 260°C
- (ii) Pressure range 0–20 bar (3 MPa; 435 psi) or better
- (iii) Power range 0–300 W or better
- (iv) Agitation Variable magnetic stirrer (300-900 RPM) or better
- (v) Ethernet LAN Complies with IEEE 802.3 (ANSI 8802-3) or better
- (vi) USB USB 2.0
- (vii) Archiving/back-up Via USB
- (viii) Printing Via LAN
- (ix) A sleeved cavity with cavity access port and microwave leakage choke, vacuum fluorescent display with alpha/numeric capabilities, an alpha/numeric keypad, computer port, Ethernet network port, and a detachable power cord.
- (x) The System should be capable of continuous power delivery system, which can be varied across the full range in 1-watt increments.
- (xi) Magnetic Stirring Option and Standard Cooling Option
- (xii) Infrared Temperature Feedback Control Option
- (xiii) Pressure Feedback Control Option Including Pressure Sensor and Pressure Attenuator
- (xiv) Software to operate
- (xv) Power Cord (India)
- (xvi) Accessory Kit Including Open Vessel Attenuator, Condenser support rod, Condenser clamp, Reaction Vials of suitable volume (100 Nos. each) with caps and septa, 10 mL Silicone carbide Vial (optional), Magnetic Stirring Bars (50 nos.), Teflon Spill Cup (4 Nos.), Pressure Calibration tool, Pressure Regulator and tubing, Operation Manual, Multiple Bit Screwdriver.