

Quotation should be addressed to the **Registrar, HBTU, Kanpur, Uttar Pradesh-208002**. The envelope should be super scribed with **Quotation for TEQIP-III Package Name – “FT 1.1”**. For any query contact to Dr. Vivek Kumar(7081300539).
Quotation are invited for procurement of the item as per the details given below-

Sr. No	Package Name	Item Name	Specifications	Quantity	Last Date & Time of Submission of Quotation	Quotation Opening Date & Time
1	FT 1.1	Microwave digestion and extraction system TEQIP-III/UP/hbti/221	<p>Installed microwave power is 1800W. The maximum microwave output power is not less than 1500W, the operating power realizes automatic variable frequency control (VFC) and non-pulsed continuous microwave heating via reaction, temperature and pressure feedback. Volume of the chamber is 65 litres. System builds in forced air cooling system with air exhaust volume of 3.1m³/min. Vessels are made up of TFM which should be automatically cooled inside the cavity. Stainless steel cavity coated with multilayer PTFE (Teflon). Multilayer layer intensified steel structure armored glass explosion proof chamber door is equipped with an automatic pop-up buffer structure. Large, long life and high brightness LCD screen displays reaction parameters and curve change in real time. System must have (magnetically) resealing safety door for safe release of overpressure. Under full closed corrosion protection, the vessel should resist the erosion of any acid and alkali liquids and gases. System should have provision to store program which can be modify as per need time to time. Vessels should superior to other high molecular materials in dielectric property, has good microwave penetrating property and heat conductivity, and is able to heat and cool quickly.</p> <p>Rotor Capacity: 16 position or more .</p> <p>Number of vessels: 8 or more</p> <p>Volume of the vessel is 100 ml.</p> <p>Maximum sustained pressure is 10MPa (100bar/1500psi).</p>	1	02/02/2019 16:00 Hrs	04/02/2019 13:30 Hrs

			<p>Highest sustainable temperature is 300°C.</p> <p>Linear materials for inner vessel are made up of TFM.</p> <p>Sensor System</p> <ul style="list-style-type: none"> - Should have integrated sensor for both Pressure and Temperature with wireless transmission of data to system electronics. - Should have in-built IR temperature sensor for remote/non-invasive measurement of temperature. - Should have provision to allow for re-calibration of the temperature sensors by the operator. - There should not be any electronic plugs/sockets inside the oven cavity, to prevent corrosion. <ol style="list-style-type: none"> 1. All vessels should have simple hand tightening closure. No special tools must be required to close the vessels. 2. Reaction vessel must have reliable metal safety disks for overpressure protection. Operation via self-venting is not acceptable to prevent contamination and escape of gases. 3. Reaction vessel must be vent able prior to removal and opening of the rotor to prevent chemical and pressure hazards. <p>The systems should be upgradable to Microwave Assisted UV lamps – these should be wireless lamps that are microwave activated and provide in-situ UV exposure</p> <p>Optional:-</p> <ul style="list-style-type: none"> - Vendor should quote system with 12 vessels with rotor - Temperature & Pressure limit of 250 deg C & 40 bar. - The system should also have an optional Rotor for Microwave assisted accelerated drying of samples under clean conditions that should be quoted optionally. 			
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FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____