



YOGI VEMANA UNIVERSITY

Vemanapuram, KADAPA-516003, Andhra Pradesh, INDIA

Dr.M.Mamatha Kumari
Dept. of Materials Science & Nanotechnology
Principal Investigator,
NRB Project

Phone: +91-(0)8886577869

Fax: +91-(0)8562-225419

E-mail: mamatha@yogivemanauniversity.ac.in
mamatha0823@gmail.com.

No.YVU/MSNT/NRB:YVU/ MMK//Equipments/Quotation-1/2017-18

16-10-2017

To

The Firms

Sub: Yogi Vemana University- Dept. of Materials Science and Nanotechnology-NRB Project
Sanctioned to Dr.M.Mamatha Kumari- quotation for ball milling equipment

Ref: 1. NRB project sanction letter- NRB-391/MAT/17-18, dated: 30-07-2017
2. Registrar permission letter No.YVU/KDP/DEVP/MMK/MS&NT/NRB/Consumables/2017-18
dated: 01-08-2017.

Quotations called for ball milling equipment and accessories with the following specifications:

S.No	Particulars	Quantity
1	<p><u>TECHNICAL SPECIFICATIONS PLANETARY MICRO MILL</u></p> <ul style="list-style-type: none">• Maximum feed particle size - upto 5 mm• Final fineness < 0.1 μm• Minimum Sample Quantity: 0.5 ml• Maximum Sample Quantity: 70 ml• No. of bowls - 2 bowls of 80 ml volume <p>Bowls Made up of hardened stainless steel with steel casing Grinding balls 5 mm dia Made up of hardened stainless steel</p> <p><u>Other specifications and required features:</u></p> <ul style="list-style-type: none">• The offered micro mill should be bench top model.• Rotational Speed of Main disk upto 1100 rpm• Maximum speed of grinding bowls should be 2200 rpm• High energy milling up to 95 g.• Short milling times in minutes• Dry and wet grinding possible.• Bench top model with high grinding performance• No-Loss grinding, even in suspension• The mill should have facility of continually monitoring and recording the data of gas pressure and temperature during the grinding process.• The Mill should have integration through integrated Ethernet, Bluetooth and USB inter faces – logging results should be easier.• The grinding bowls 80 ml volume made of hardened stainless Steel should be supplied with steel casing.• Compensation of unbalance of all grinding bowls using a compensation mechanism which is easy to operate.• Possibility to add additional lock-system and/or special lid for grinding in inert atmosphere• Grinding chamber cooled by built-in to permit longer grinding times• Programmable interval and break times and rotation direction (clock wise & anti clock wise)• Absolutely reproducible grinding parameters with use synchronous belts for transmission.• Simple cleaning of grinding elements• Effective diameter of main disk should be 140 mm• Transmission ratio should be 1: -2	1 Unit

2	Accessories	
	<p style="text-align: center;">Un-interrupted power supply (Inverter)</p> <ul style="list-style-type: none"> • Inbuilt isolation transformer with Power rating - 6 KVA • Input voltage range - 190-240 V ac • Current harmonic distortion- <5% (full load) • Power Factor - > 0.99 (full load) • Efficiency - >91% • Back up time - 2 hr • 42ah SMF batteries- 16 nos • Brand Preferable- Delta or APC 	1 Unit

Sealed quotations can be sent by Registered Post / Speed Post / Courier or parties can visit university and deposit the sealed quotations in the Drop Box available at Registrar's office super scribed as "No.YVU/MSNT/NRB:YVU/MMK/Equipment/Quatation-1/2017-18 dt. 16.10.2017" should reach **The Registrar, Yogi Vemana University, Vemanapuram, Kadapa, Andhra Pradesh, Pin 516 003.** On or before **16.11.2017.** The university is not responsible for the postal delays.

(Dr.M.Mamatha Kumari)