

**UNIVERSITY OF KASHMIR, SRINAGAR**  
**DEPARTMENT OF NANOTECHNOLOGY**  
**Tender Notice**



Tenders in sealed envelopes affixed with revenue stamp and accompanied with a CDR of Rs 5000/= pledged to Dr. Shafquat Majeed, Assistant Professor, Department of Nanotechnology, are invited by the undersigned from reputed Manufacturers/Authorized Distributors for supply/installation/demonstration of equipments stated below.

**List of Equipment**

S. No	Name of the Instrument	Specifications	Quantity
1	<b>Photoluminescence Spectrophotometer</b>	<p>The instrument must be capable of multiple data collection modes including fluorescence, phosphorescence, chemi-luminescence and bio-luminescence.</p> <p>System should have variable wavelength. 2.5 nm to 15 nm or better</p> <p>Detector Spectral Range (both excitation and emission): 200 to 900 nm or better</p> <p>Wavelength Accuracy: 1.5 nm or better</p> <p>Detector: PMT both excitation and emission.</p> <p>The instrument must be a Xenon flash lamp based instrument that has room light immunity for fluorescence mode allowing samples or accessories to be measured without closing the sample compartment lid. The Xe flash lamp will also minimize fluorescence photo-bleaching of any samples and must also flash at 80 Hz to allow fast data collection.</p> <p>The instrument must have a guaranteed signal-to-noise specification of &gt;720:1 for the Raman Band of Water. 350 nm excitation, excitation and emission slits 10 nm, 1 s Signal Averaging time.</p> <p>The instrument must be capable of collecting data at microsecond time intervals for phosphorescence applications.</p> <p>Accessories required: Solid sample Holder, Film Holder, powder holder. Single cell Peltier accessories (5 to 100 Deg C) for cuvettes with temperature probe, pump/fluid circulator &amp; software. Quartz cuvette 3ml, 1ml (02 Nos each) .</p> <p>Local items (Itemized price must be quoted): Suitable PC, Printer &amp; suitable Online UPS with 30 min backup.</p> <p>Warranty: One year or more.</p> <p><i>Furthermore, a list of references in India, where similar systems have been installed, must be provided and this will be taken very seriously while making the decision. Your post sales service feedback will be certainly a deciding factor.</i></p>	1

2.	<b>Monomode Microwave Synthesiser</b>	<p>Microwave assisted focused monomode synthesizer should be able to handle the synthetic reactions involving routine organic, organometallic, Nano materials synthesis, fluorination, caustic solutions, catalysts using palladium etc.</p> <p>Power Output : Microwave power of minimum 300 W or higher</p> <p>Maximum Pressure &amp; Temperature: 20 bar and 250 °C for all vessel types</p> <p>Temperature Measurement: IR measurement as standard facility or optional fibre optic sensor</p> <p>Integrated Pressure Sensor to measure, display as well as document reaction pressure</p> <p>Should have inbuilt magnetic stirrer device with variable speed to ensure uniform temperature in the reaction mixture volume for uniform heating of even high viscous reactions.</p> <p>Self-tuning cavity for optimum heating efficiency with all vessel types</p> <p>Should be supplied with Glass Vials of 30 ml capacity or more with sustainable material of construction and allow for multiple reaction runs to be conducted in the same vial</p> <p>Sealing of reaction vessels should be easy and without use of any tools.</p> <p>Required consumables for trouble free operation of the instrument should be quoted.</p> <p>Suitable air compressor for operation of the instrument and cooling of reaction vials after a reaction is over should also be quoted.</p> <p>Instrument should be able to connect to a suitable digital interface to monitor the reaction parameters or should have a large inbuilt Touchscreen display with capability for online graphical display of reaction parameters like pressure, power and temperature and review of previous reaction runs.</p> <p><i>Optional Fiber optic Thermometer with ability to measure internal reaction temperature should be quoted separately.</i></p> <p><b><i>Furthermore, a list of references in India, where similar systems have been installed, must be provided and this will be taken very seriously while making the decision. Your post sales service feedback will be certainly a deciding factor.</i></b></p>	1
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#### Terms & Conditions

1. Tenders will be received by Hand/Speed Post/Registered Post/Courier Services only in sealed cover superscribing “***Tender for Equipments for Department of Nanotechnology, University of Kashmir, Hazratbal-Srinagar***” and addressed to Dr. Shafquat Majeed, Assistant Professor, Department of Nanotechnology, University of Kashmir, Hazratbal Srinagar-190006, J&K, up to 2.00 PM on 25<sup>th</sup> October, 2017.
2. The cover should read “***Tender for Equipments for Department of Nanotechnology, University of Kashmir, Hazratbal Srinagar***, and also indicating thereon:
  - i) Reference No. of the Tender

- ii) Due date for submission of the tender
- iii) Name of the firm with an address, Mobile/Phone/Fax and e-mail
- 2. The vendors quoting must have Tin No: and latest VAT Clearance Certificate from the sales tax department. The specifications should be supported with the catalog. The rates should be quoted for Department of Nanotechnology, University of Kashmir Srinagar. The taxes, if any, should be indicated clearly. The undersigned reserves the right to purchase all/some/or none of the listed items.
- 3. The manufacturers/authorized distributors are requested to send a soft copy of the quotations by e-mail at [smsah@uok.edu.in](mailto:smsah@uok.edu.in) on or before 25<sup>th</sup> October, 2017.

**Dr. Shafquat Majeed**  
**Principal Investigator**

**No: F-(NATE-SM-SERB)KU 2017**  
**Date: 04-10-2017**