

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



**Detailed tender notice**

Tenders in sealed envelopes affixed with revenue stamp and accompanied with a for the amount of 2% of the total quotation price pledged to Dr. Faheem Arjamend, Assistant Professor, Department of Nanotechnology, are invited by the undersigned from reputed Manufacturers/Authorized Distributors for supply/installation/demonstration of equipment stated below. The tenders should reach before **2.00 PM on 28, August, 2017** by hand and/or by registered post.

**List of Equipment**

S. No	Name of the Instrument	Specifications	Quantity
1	Electrospinning	<p>Electrospinning unit to produce nanofibers for research applications, A high voltage power supply capable of producing (1kV to 30kV), (0.5mA max Current). Should have humidity display meter. Should have an exhaust fan in the system hood. Collector – Drum having (Dia 50 mm x Length 100mm) A LARGE DIAMETER WILL BE PREFERRED, the rotation speed of drum should be up to 4000 to 5000 RPM, The system hood should have features of lighting and the transparent door for monitoring electrospinning process and sufficient space to accommodate humidifier, The system hood should have facilities for inert gas purge, The control panel should have On/off button and should have main emergency stop buttons. Also, should have a temperature and collector speed indicator.</p> <p><b>Additional/Optional accessories</b></p> <p><b>1. Syringe pump</b> The Syringe pump should have a microprocessor based control system that can render a flow rate of 0.1 <math>\mu</math>L/min to 10 ml/min. The syringe holder should be made of insulating material to work under high voltage conditions, one or two syringe dispensing systems is desired.</p> <p><b>2. Humidifier</b> It is highly desired to have portable mini humidifier to be used for controlling humidity in the electrospinning chamber. Preferably from “Allin Exporters Ultrasonic Humidifier for Home./Office with Waterless Auto Shut-off and Adjustable Mist Feature (Colors As Per Stock)”</p> <p><b>3. A professional Tool Kit</b> (with 100 or more accessories) Preferably from “Bosch GSB 10 RE Professional Tool Kit (Blue, Pack of 100)”</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	Contact angle measurement system	<p><b>Contact Angle meter with Manual dispensing</b></p> <p>Measuring method : Sessile drop Method Analysis method : Automatic curve fit analysis using drop snake method. Measuring range :0 - 180 degree Inaccuracy :+/- 0.1 degree Optics :High performance aberration corrected imaging lens with precise manual focus adjustment. Video System :High performance CMOS Sensor, Monochrome, 1280 x 1024 Pixel, 25 fps.3m shielded USB cable included. Lighting :LED Based diffused lighting mechanism. Light intensity can be varied. Dispenser :Mechanical dispenser with precise micrometer control. 50, 100 &amp; 150 micro liter syringes are provided with the system. Dimension :350 x 125 x 350mm Weight :30 kg (approx) Power supply :240VAC, 50 Hz. Software: INCLUDED</p>	1

		<p><b>Additional accessories</b></p> <p><b>1. Laptop:</b> iBall CompBook Excelance Laptop, 11.6", Quad Core, 2GB, 32GB, Win 10 Lowest Eve with Charger</p> <p>OR any other Minilaptop not more than Rs. 10000 to be used for installation and working of software.</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>	
3	Tensile strength tester	<p>For Checking Tensile Strength of Fabric / HDPE Bag/ PP Bag / Non-woven Fabric</p> <p>Capacity : 250 Kgf</p> <p>Load Cell: S type, 250 Kgf</p> <p>Accuracy : 0.010 Kg. (10g)</p> <p>Performance parameter – Accuracy +/-1% with standard sample will be provided</p> <p>Display Unit : Mpa N/mm<sup>2</sup>, kgf/Cm<sup>2</sup>, lb/inch<sup>2</sup></p> <p>Operating System: Fully Automatic and Manual Both Maximum</p> <p>Grip Separation : 900mm</p> <p>Motor : 0.5 hp , Crompton 220V AC 50 Hz</p> <p>Display Units : Load, Speed , Elongation</p> <p>Traverse Speed : 300 mm/min</p> <p>Calibration : Self Calibrated</p> <p>With Window based Software licensed to customer</p> <p><b>Report:</b> Tensile Strength, Elongation, Yield Strength with Graph.</p> <p>With One Pair of Grips</p> <p>Can be Installed any Window Based Computer</p> <p>Additional accessories</p> <p><b>Additional Accessories</b></p> <p><b>1. Sample Die Cutter</b></p> <p>Should be able to cut the samples in the form of a 'dog-bone' shaped nonwoven mats with (2.75 mm wide at their narrowest point with a gage length of 7.5 mm) or (4 × 2 × 50 mm<sup>3</sup>) or any other related gage to used for cutting polymeric nanofiber mats.</p> <p><b>2. Digital Vernier Caliper</b></p> <p><u>Gauge of Micrometer</u></p> <p>Made of strong plastic carbon fiber composites, lightweight and durable, With large LCD display, easy to read, An ideal tool for a broad range of industrial and automotive applications, Four way measurement: inside diameter, outside diameter, depth, step</p> <p>Preferably, Imported and new LCD Digital Electronic Carbon Fiber Vernier Caliper Gauge Micrometer”</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
4	Digital analytical balance	<p>Based on Monolithic Magnetic, Force Technology for high, Weighing accuracy &amp; reliability for daily lab routines, Single Touch Key Calibration with external weights, Easy to Read high contrast &amp; Big LCD Display with backlight, Multifunction Weighing units, Auto Zero Tracking, Overload Protection Design, Stainless Steel Weighing Pan, Adjustable Feet, High Resolution, Glass Draft Shield, Parts Counting Mode</p> <p><b>Detailed Specifications</b></p> <p>Capacity 120 g, Readability 0.1 mg, Repeatability 0.2 mg, Linearity ± 0.3 mg, Pan Size SS weighing pan with removable dust &amp; spill rings ~ 80 mm dia, Response Time &lt; 5 seconds, Calibration Automatic Single Touch Key Calibration with External Weight, Tare Range 100% of F.S., Operating Temperature 10 °C to 40 °C, Power Supply AC adapter 220V / 50-60 Hz, Net / Gross Weight Approx 6 kg</p>	1

## **Terms & Conditions**

1. Tenders will be received by Hand/Speed Post/Registered Post/Courier Services only in sealed cover superscribing “*Tender for NANO-MISSION at Department of Nanotechnology, University of Kashmir, and Hazratbal Srinagar*” and addressed to Dr. Faheem Arjamend, Assistant Professor, Department of Nanotechnology, University of Kashmir, Hazratbal Srinagar-190006, J&K, before **2.00 PM on 28, August, 2017**.
2. The cover should read “*Tender for NANO-MISSION at Department of Nanotechnology, University of Kashmir, and Hazratbal Srinagar*”, 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
3. 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/same/or none of the listed items.
4. *The vendor should have submitted offer in separate technical and price bid format.*
5. The manufacturers/authorized distributors are requested to send a soft copy of the quotations by e-mail at [faheemnt@uok.edu.in](mailto:faheemnt@uok.edu.in) on 29, August, 2017.

**Principal Investigator  
Dr. Faheem Arjamend**

No: No: F-(Nano-mission)-Tender-Online-A1  
Dated: 7/28/2017