

**SERB Project:F.No: EEQ/2016/000031Dt: 17.01.2017, entitled “Development and Evaluation of Zeolite – Polyacrylate based nanocomposite films for active packaging system of Fruits and Vegetables”**

S.No.	Item Name	
1.	<p><b>Tear Tester</b>  Tear test method: Should be based on ASTM or ISO standard Samples: Must be applicable for Polymer films, sheets, etc  Capacity: from 200g to 6400g or higher  Clamp for tear test Scale reading: 0 to 100%  Sample Cutter  Data Acquisition Interface Software  Warranty: Three Years</p>	
2.	<p><b>Ultrasonic Probe type Sonicator</b>  To purchase one high intensity ultrasonic probe sonicator with accessories.The proposed machine should comply with or be better than each of the specifications mentioned in the Technical Specifications Section. <b>No quotation will be entertain if features will be lower than asked features.</b> Technical specifications are as follows:  Temperature Monitoring, High Intensity, Ultra Sonic Liquid Processor for volumes ranging from 250 µ L to Liters.  750 watts and above, 20 KHz, automatic tuning, energy monitor, digital wattmeter,temperature controller, microprocessor based, programmable, LCD screen with user prompts, real time alpha numeric display, at least 10 program storage capability, at least 10 hour process timer, variable amplitude control, full function pulser ON and OFF cycle independently controllable from 1 second to 10 seconds, overload protection circuit, remote actuation connector, quick disconnect converter cable with appropriate Tool Kit with Non-slip laboratory mat.  The instrument should also include a VCX temperature probe, branded sound abating enclosure, support rod, heavy duty converter clamps, laboratory jack and Couplers for fixing Tips.  It should also include following TIPS:</p> <ul style="list-style-type: none"> <li>• ½” (13 mm) threaded end replaceable tip for large sample volumes.</li> <li>• 3 mm (1/8”) stepped micro tip for medium volume 2 mm (5/64”) Stepped micro tip for small volume.</li> <li>• 6 mm (1/4”) Tapered Micro Tip for medium volume.</li> <li>• 5 mm (3/16”) Tapered Micro Tip for medium volume.</li> </ul>	