

Technical specifications for Particle Size Analyser

Particle size analyser complete in all respects	
Measurement	Laser Diffraction using Mie and Franhoufer scattering theory
Samples	Dry powder, suspension, emulsion
Laser Power	2 mW or more Min. 2 lasers or more
Accuracy	$\leq \pm 1 \%$
Size range	Wet mode : 150 nm to 2500 μm (or a wider range) Dry mode : 100 nm to 2500 μm (or a wider range)
Detector	Photo diode array
Sonication Power	40 W (or higher)
Mode of operation	Wet mode and Dry mode Should be supplied with systems for both wet mode and dry mode of operation
<u>Other requirements</u>	
<p>Laptop: (Processor i7, windows 10 or better, memory 8 GB RAM, 1 TB HDD, 2 GB Graphic card, 11 inches – 13.5 inches, wide HD display screen, 3 hours battery life or better, should have suitable interface to connect to particle size analyser</p> <p>Suitable software for system operation, equipment control, data analysis, data interpretation and report generation</p> <p>Class I laser safety confirming to EN 60825-1:2001</p> <p>Reference materials: The system must be supplied with reference materials meeting the requirements of ISO 13320:2009 with test certificate having traceability to National/ International Standard</p> <p>Accessories: All accessories required for cleaning and maintenance of the equipment such as vacuum cleaner, air compressor and dryer shall be supplied along with the equipment</p> <p>The other mandatory accessories, spares and tools for the efficient operation of the machine shall be supplied with the equipment</p> <p>The wet mode size analysis should have a wide range of chemical compatibility such as aqueous and organic dispersants</p> <p>Onsite service and warranty of minimum two years</p>	