

### Technical Specification - Bench Top Particle counter

Sl.No	Item	Description
1	Type	Bench top & Portable (Mandatory)
2	Flow Rate	1.0 CFM (28.3 lpm) with volumetric flow control
3	Max. Concentration	> 1,000,000 particles per cubic foot
4	Accuracy	± 10% to calibration aerosol
5	Particle Measurement Range & Number of channels	0.3 to 10 micron or more & Min. 6 channels
6	Sensitivity	0.3 micron
7	Compatibility	Class 100, 1000 & 10,000 (Mandatory)
8	Light Source	Laser Diode
9	Battery	Rechargeable Li-ion battery, should be able to withstand min. 3 hrs continuously
10	Display	Should be large and easy to read
11	Calibration Standard	ISO 21501-4
12	Alarm, Printer, data storage	Should have audible alarm, built-in printer and able to store data
13	Temperature and Humidity sensor	Should be able to measure temperature and Humidity
14	Power input	230 V, 50 Hz
15	Manual	Standard electronic & hard copy
16	Calibration certificate	Mandatory
17	Warranty	Minimum One year standard warranty
18	Shipping terms	DAP at IIT Madras site



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**Important Notes:**

1. Please provide complete specification of the system along with utilities connection and range. We may reject the tender if a proper specification is not provided OR if the outlay/design proposed is not found satisfactory.
2. Please provide photographs, drawings and technical specifications of the equipment.
3. Please provide at least 3 references of laboratories (in India/abroad) where you have installed similar systems with full specification of the systems. We may reject the tender if we find the reference systems unsatisfactory.
4. Please provide details of after sales service. The supplier should have service centre or facility with complete infrastructure in India to handle major repair of the system. Critical spares should be available off the shelf in Indian offices. In case of a breakdown, maintenance and replacement of parts should be possible at the purchaser's site. We may reject the quote if the after-sales service details or feedback from previous purchasers are found unsatisfactory.
5. Please mark the tender number on top of the cover envelope.
6. Provide a list of mandatory and optional spares along with wear & tear consumables list.



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