

**Annexure 1****1. Specification of PM 10/PM 2.5 Dust Sampler**

<b>Sampling</b>	Same machine should be able to determine PM 10 and PM 2.5 dust sample concentration separately.
<b>Power Requirement</b>	Single Phase AC 220 Volts, 50 Hertz Supply. Should be unaffected by $\pm 10\%$ fluctuation in Supply Voltage.
<b>Pump</b>	Oil free, brass less pump of low noise
<b>Sampling Rate</b>	Constant Sampling Rate of $1\text{m}^3/\text{hr}$ , should be unaffected by power fluctuation and filter paper chocking.
<b>Filter Paper</b>	Should be able to accommodate any standard 47 mm filter media.
<b>Sample Volume</b>	Onboard meter should be provided to determine total air volume.
<b>Special Requirement</b>	Design should be approved by Central Pollution Control Board, New Delhi or US-EPA

**2. Specification for Gaseous Attachment**

<b>Sampling</b>	Should be able to sample and monitor the concentration of the following gases : $\text{SO}_2$ , $\text{NO}_2$ , $\text{Cl}_2$ , $\text{H}_2\text{S}$ , $\text{NH}_3$ and $\text{HCHO}$
<b>Number of Absorbers</b>	Minimum of 4 (four) no. of 35 ml Borosilicate Glass impingers as per BIS 5182 (Part VI), 2006 with 2 no. of fitted Disc Impingers.
<b>Pump</b>	Should be a standalone instrument with indigenous suction pump
<b>Sampling Rate of Each Impingers</b>	0.3-3.0 lpm
<b>Sampling Time</b>	28 Hrs
<b>Timer</b>	Should be able to record sampling time up to 9999.99 hrs.
<b>Automatic Sampling Control</b>	Should be able to automatically shut off the system after preset intervals.
<b>Power Requirement</b>	Single Phase AC 220 Volts, 50 Hertz Supply. Should be unaffected by $\pm 10\%$ fluctuation in Supply Voltage.

