



**Name of the Technology: PM<sub>2.5</sub> Sampler**

**Summary:** A high volume PM<sub>2.5</sub> impactor sampler is developed. This impactor can segregate particulate matter > 2.5 micron size and facilitate to collect ≤ 2.5 micron size particles suspended in ambient air on filter size (8 × 10) inch. The impactor is designed for sampling air with a high flow rate (1.13 m<sup>3</sup>/min, i.e. 40 CFM). Also, the design of this impactor is made such as a retrofit on the filter holder of conventional high-volume total suspended particulate matter (TSPM) sampler to make it high-volume PM<sub>2.5</sub> sampler..

**Applications:** Sampler for air monitoring (as per NAAQS)

**Advantages:** Indigenous, first in India. Impactor based sampler. Better cutoff size of PM<sub>2.5</sub> particles

**Choose the Readiness level of the Technology:**

Idea	Concept Definition	Proof of Concept	Prototype	Lab Validation	Technology Development	Technology Demonstration	Technology Integrated	Market Launch

**Related Patents:** NIL,                      **Year of Introduction:** 2016

**Broad Area/Category:** Environmental Engineering

**User Industries:** Manufacturer of air monitoring equipment.