



Name of the Technology: PM_{2.5} Sampler

Summary: A high volume PM_{2.5} 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 m³/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_{2.5} sampler..

Applications: Sampler for air monitoring (as per NAAQS)

Advantages: Indigenous, first in India. Impactor based sampler. Better cutoff size of PM_{2.5} 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.

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