

# Outdoor Air Purifying System

## Features

- Model 1: 2 Fans, 1 Filter set, Power required: 90 W.
- Model 2: 1 Fan, 1 Filter set, Power required: 45 W.
- Model 3: Annular in shape; 4 Fans; 4 Filter sets; 4 directional cleaning, Power required: 180 W.



- All models are attachable with street lamp pole (may/may not be solar powered).
- Low cost in-house activated carbon filter developed as a replacement of commercial pre-filter and activated carbon filter.
- Target area for cleaning: approximately 500 m<sup>2</sup>

## Application Areas

*Removes pollutants, like, PM 2.5, PM 10, VOCs and dust particles up to 70%. Cost-effective and efficient in-house activated carbon filters for the removal of dust particles, VOCs and odour.*



## Introduction

Air pollution has become a never-ending problem in most of the developed cities of India. Too much pollution and dust particles in the air pose a threat to the human health.

Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur, has developed an Outdoor Air Purifying System to effectively remove pollutants and dust particles up to 70%.

