

## **Dust deposition on *Pedilanthus Tithymaloides* Poit. in Mumbai City And Vehicular Movement.**

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### **ABSTRACT**

Mumbai is one of the most populated cities in the state of Maharashtra which is highly polluted. Being an active city, it is always in the developing stage by having continuous constructions and dense traffic. These activities resulted in an uncontrolled increase in dust pollution. To reduce various forms of pollution, including SPM and Dust, vegetation is an effective remedy. *Pedilanthus tithymaloides* Poit. was used in phytomonitoring of dust at 10 critically dusty sites in Mumbai. The plant is commonly grown on traffic islands in the city along highways and road dividers in order to know the distribution of dust in the city and explore the potential of the plant as an indicator of dust pollution dust was collected in the dry season from the leaf surfaces of *Pedilanthus tithymaloides* Poit. growing at ten different selected sites in the city. The study of dust in 8 months of dry season, showed a significant difference in summer and winter months by showing higher foliar dust values in summer. Traffic count was taken from the sites where dust was collected. High dust values were recorded at sites with high traffic density and type of vehicles. *Pedilanthus tithymaloides* Poit. can be used for monitoring dust in the surrounding atmosphere.

[https://www.researchgate.net/publication/322695700\\_DUST\\_DEPOSITION\\_ON\\_PEDILANTHUS\\_TITHYMALOIDES\\_POIT\\_IN\\_MUMBAI\\_CITY\\_AND\\_VEHICULAR\\_MOVEMENT](https://www.researchgate.net/publication/322695700_DUST_DEPOSITION_ON_PEDILANTHUS_TITHYMALOIDES_POIT_IN_MUMBAI_CITY_AND_VEHICULAR_MOVEMENT)