



- This structure **fitted with multiple layers of filters** which trap fine dust particles suspended in the air as it passes through them.
- Air is drawn through fans installed at the top of the tower, passed through filters, and then released near the ground.

Refer: <https://www.insightsonindia.com/2020/08/01/what-are-smog-towers/>

5. Consider the following statements:

1. Smog tower can reduce particulate matter by 50% in the area.
2. WAYU (Wind Augmentation Purifying Unit) has the capacity to purify air in an area of 500 meter square.

Which of the given above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (c)

Explanation:

- Stat1: Experts have said that the towers would create “clean air zones” in the city. **A tower would reduce 50% of the particulate matter load** — fine dust particles suspended in the air — in an area of 1 kilometre in the direction of the wind, as well as 200 metres each along the sides of the tower and against the direction of the wind.
- Stat2: **WAYU is developed by Council of Scientific and Industrial Research – National Environmental Engineering Research Institute (CSIR-NEERI)** as a part of Technology Development Project funded by Department of Science and Technology.
- The **device has the capacity to purify air in an area of 500 meter square**. The device consumes only half a unit of electricity for 10 hours of running and has a maintenance cost of only Rs. 1500 per month.

Refer: <https://www.insightsonindia.com/2020/08/01/what-are-smog-towers/>

6. Consider the following statements :

1. UN Children’s Fund (UNICEF) is the successor of the International Children’s Emergency Fund (ICEF).
2. It has published the “Lost at Home” report.
3. Recently, United States and Israel have officially quit the UNICEF.

Which of the given above statements is/are correct?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 3
- (d) 1, 2 and 3

Ans: (a)