

GUERRILLA GARDENING PROBLEM

All of the cities in this world are growing vertically and we are leaving greenery and nature behind us and mainly focusing on the development



- A new study published in Nature estimates the planet has 3.04 trillion trees. The research says 15.3 billion trees are chopped down every year. It also estimates that 46% of the World's trees have been cleared over the past 12,000 years. Only 4 billion hectares of forest remain worldwide according to Global Forest Resources Assessment 2015.

Environmental Problems & Concerns:

- Our Mother Earth is currently facing lot of environmental concerns. The environmental problems like global warming, acid rain, air pollution, urban sprawl, waste disposal, ozone layer depletion, water pollution, climate change and many more affect every human, animal and nation on this planet.

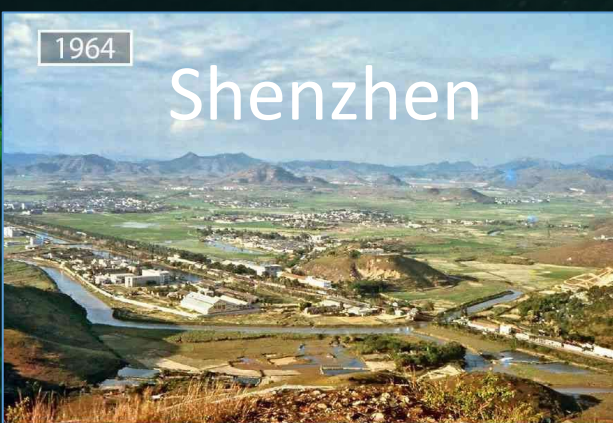


- World environment day: Mumbai lost 60% of its green cover in 40 years
- “Mumbai is facing several environmental problems that are rising by the day,” said Avick Sil, regional director, EPRI.
- The city’s tree cover, which was more than 35% in the 1970s, is less than 13% today. Scientists from IISc said a region should have at least 33% green cover to ensure adequate oxygen to its citizens.
- For every 10% increase in urban tree canopy, ozone is reduced by 3-7%.

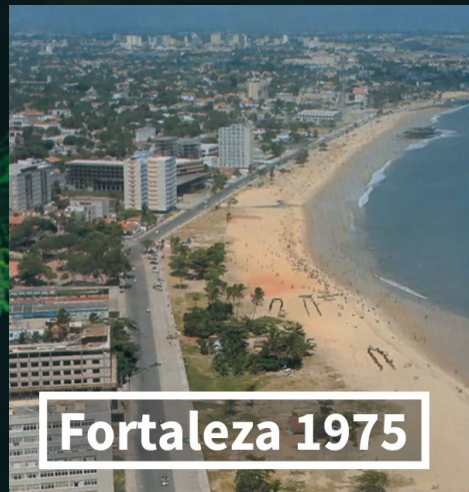


1964

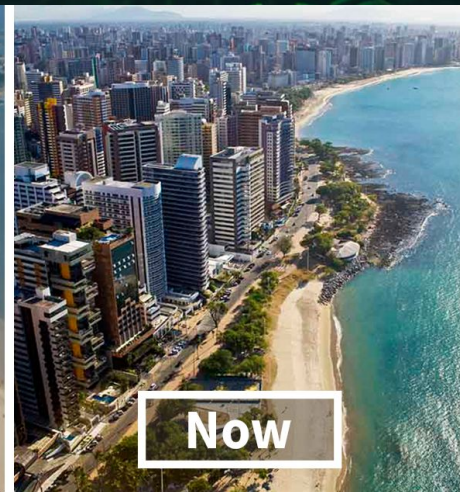
Shenzhen



Now



Fortaleza 1975



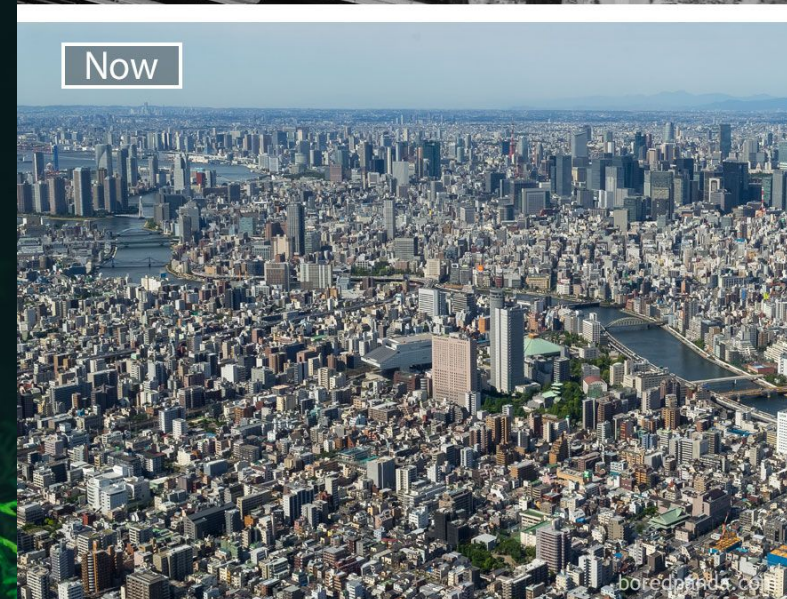
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1945

Tokyo



Now



Mumbai



Malesia

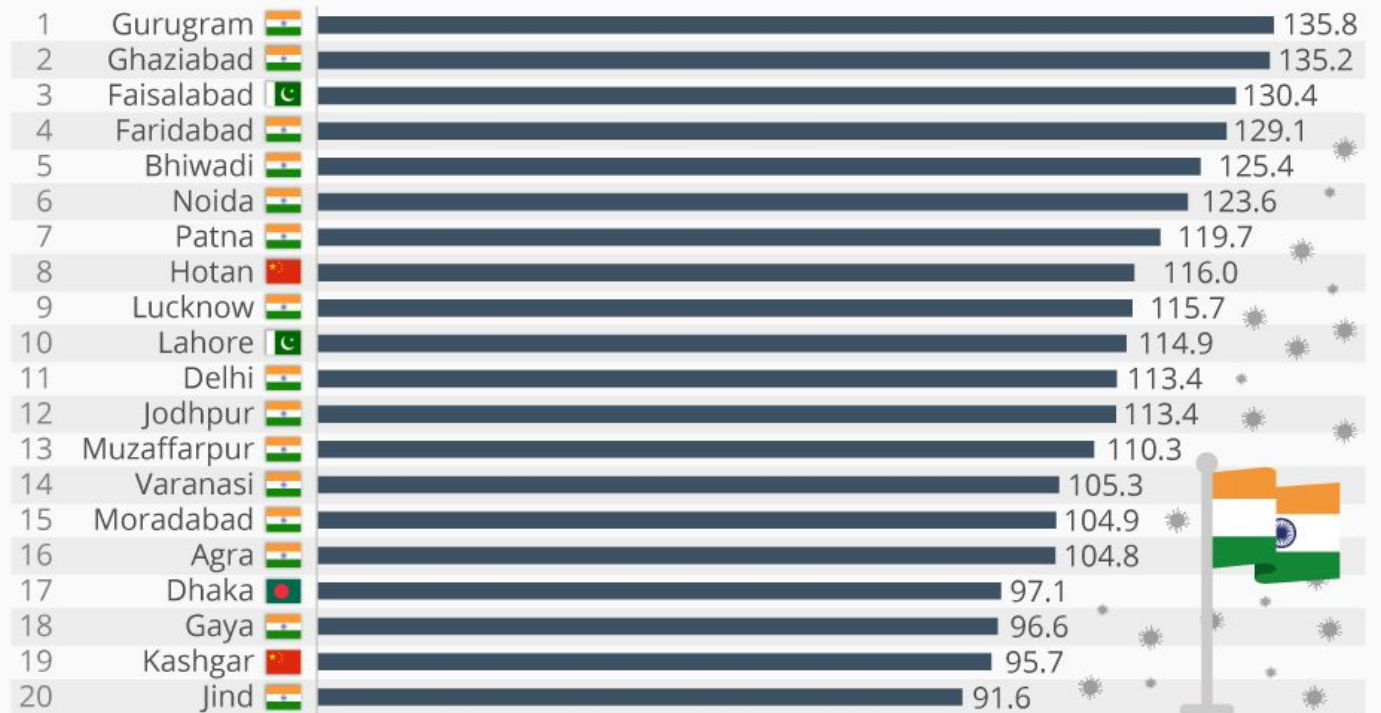


HARMFUL EFFECTS OF LOW TREE TO HUNMAN RATION

- Air Pollution
- Global Warming
- Climate Change
- Desertification
- Flooding
- Loss of animal and bird habitat

India Has The Most Polluted Cities On Earth

Average level of particulate matter (PM 2.5) pollution in 2018



SOLUTION

Gardening Mat

What is Gardening Mat?

- We Have designed a mat on which anyone can plant any seed and do guerilla gardening.
- You can keep the gardening mat anywhere in your house and water it once a day.
- After the plant is grown to a certain limit you can place it anywhere like Roadside, underbridge, commercial buildings, government building etc.



What is guerrilla gardening?

- Guerrilla gardening is the act of gardening on land that the gardeners do not have the legal rights to cultivate, such as abandoned sites, areas that are not being cared for, or private property.



Gardening Mat

How is it made

- The Gardening mat is made of three main parts

Coconut peat - 50%



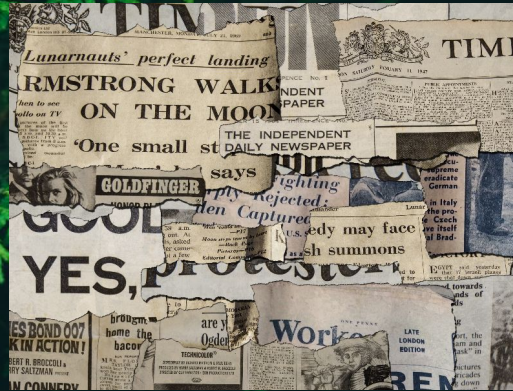
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Rice Husk - 40%



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Newspaper- 10%



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Guerrilla Gardening Mat



Research Work

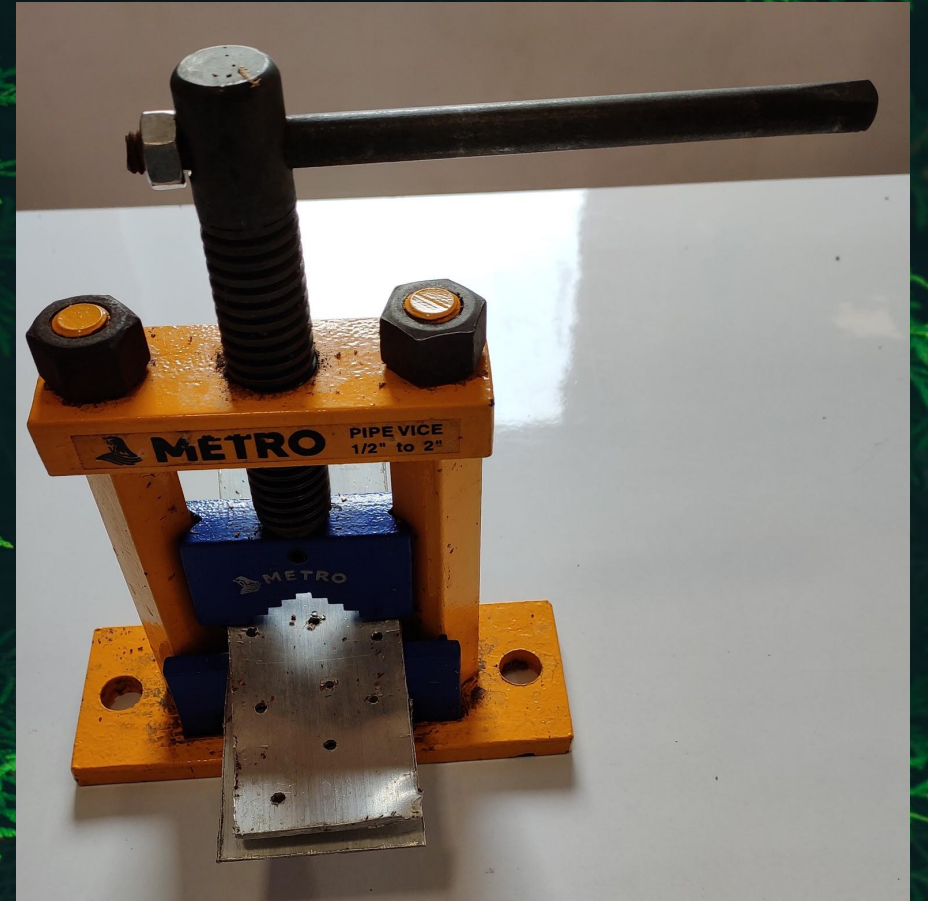
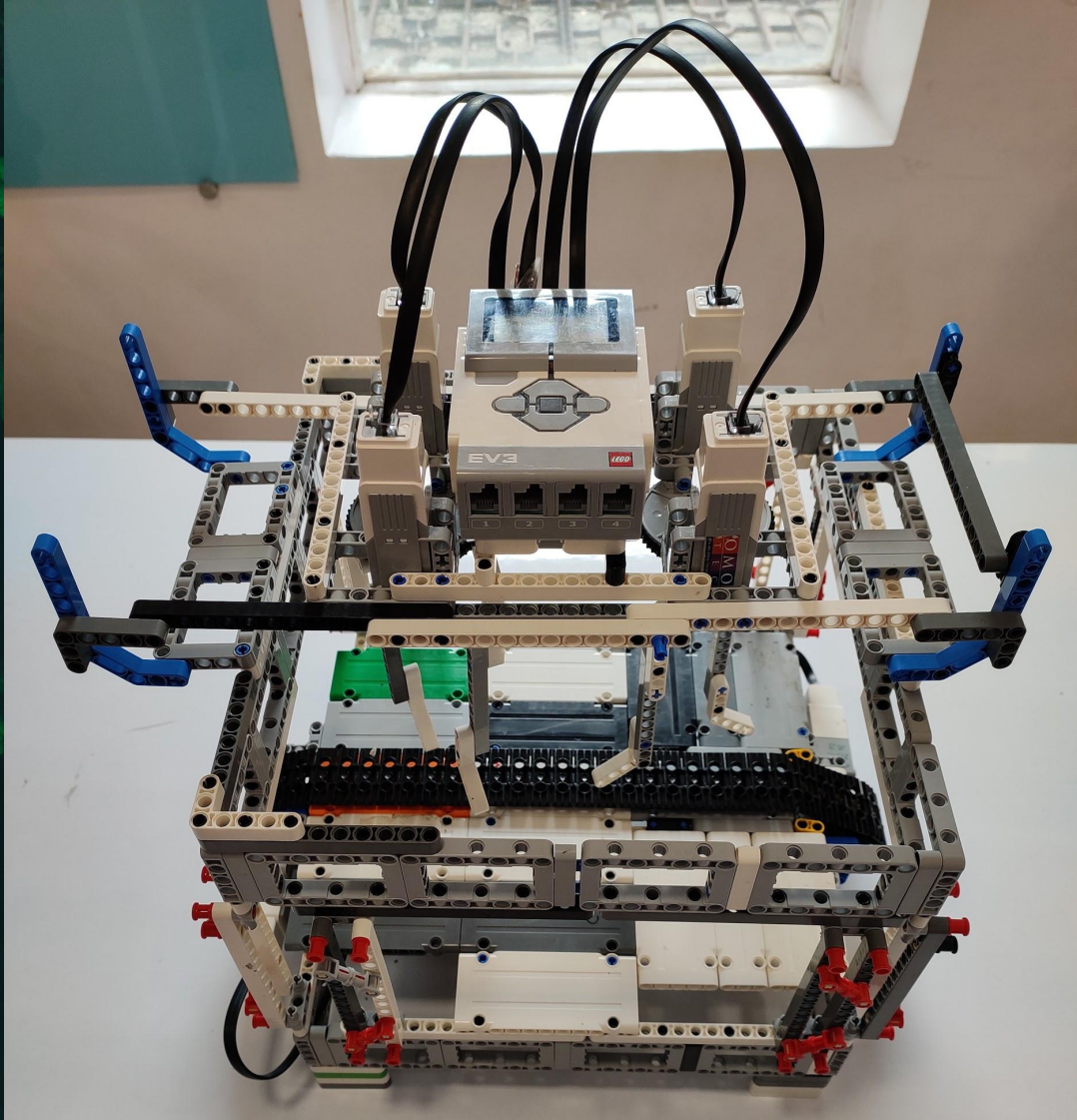
- Tests and their results



Advantages of Gardening Mat

- The Gardening mat is very easy to handle
- Can be placed anywhere near sunlight
- It does not create any mess as it is completely made of organic components.
- Needs to be watered only once a day or two.
- The solution is economic, safe, fast and EASY!

Prototypes



Solution Sharing



