



Miyawaki Technique

Why in News?

The Prayagraj Municipal Corporation has developed [dense forests](#) at multiple locations across Prayagraj to provide pure air and promote a healthy atmosphere.

- Using the [Japanese Miyawaki technique](#), the corporation **established several oxygen banks** that have now evolved into lush green forests.

Key Points

- **Benefits of the Project:**
 - The initiative **aids in managing industrial waste** and reduces dust, dirt, and foul odours.
 - It significantly improves the city's air quality and **promotes environmental conservation**.
 - Miyawaki forests help reduce [air and water pollution](#), prevent [soil erosion](#), and enhance biodiversity.
- **Environmental Impact:**
 - These forests lower the temperature difference between day and night during summers.
 - They enhance biodiversity, improve soil fertility, and create habitats for animals and birds.
 - Large forests developed through this technique **reduce temperatures by 4 to 7 degrees Celsius**.
- **Diversity of Species in Miyawaki Forests:**
 - **Fruit-bearing trees:** [Mango](#), Mahua, [Neem](#), Peepal, [Tamarind](#), Amla, and Ber.
 - **Medicinal and ornamental plants:** Tulsi, Brahmi, [Hibiscus](#), Kadamba, Bougainvillea, and Jungle Jalebi.
 - **Other species:** Arjuna, Teak, [Sheesham](#), Bamboo, Kaner (red and yellow), Tecoma, Kachnar, [Mahogany](#), Lemon, and Drumstick (Sahjan).

The Miyawaki Technique

- **About:**
 - Developed by **Japanese botanist Akira Miyawaki in the 1970s**, this method **creates dense forests in limited spaces**.
 - Known as the '**pot plantation method**,' it involves planting native species closely together for rapid growth.
- **Key Features and Benefits:**
 - Plants **grow 10 times faster**, mimicking natural forests with dense plantations.
 - Improves soil quality, biodiversity, and carbon absorption.
 - Effective in urban areas for **transforming polluted and barren lands into green ecosystems**.

