

Miyawaki Technique | Uttar Pradesh | 18 Jan 2025

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 <u>Japanese Miyawaki technique</u>, 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 <u>industrial waste</u> and reduces dust, dirt, and foul odours.
- It significantly improves the city's air quality and promotes environmental conservation.
- Miyawaki forests help reduce <u>air and water pollution</u>, prevent <u>soil erosion</u>, 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, <u>Hibiscus</u>, Kadamba, Bougainvillea, and Jungle Jalebi.
- Other species: Arjuna, Teak, <u>Sheesham</u>, Bamboo, Kaner (red and yellow), Tecoma, Kachnar, <u>Mahogany</u>, 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.