



Miyawaki Plantation Method

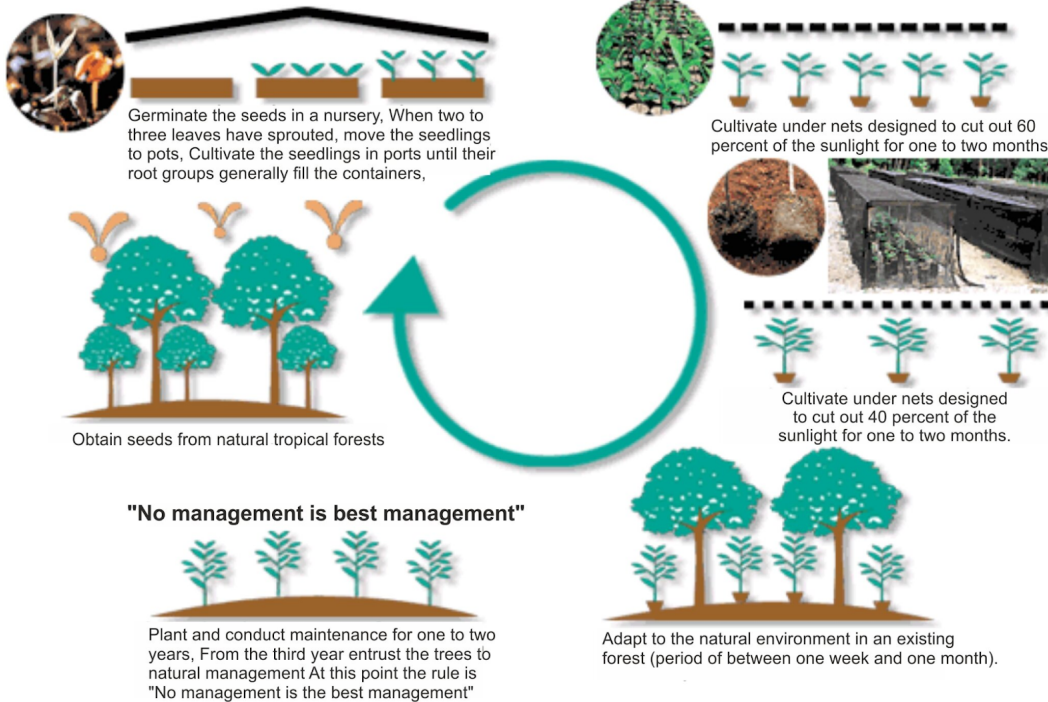
Why in News?

Prime Minister of India in his recent episode of 'Mann ki Baat', **discussed the concept of [Miyawaki plantation](#)**. He **shed light on the Japanese technique of establishing dense [urban forests](#) in limited spaces**.

- He also **mentioned the inspiring story of Raafi Ramnath**, a teacher from Kerala, who utilized the Miyawaki method **to convert a barren piece of land into a miniature forest named Vidyavanam**.

What is the Miyawaki Plantation Method?

The Miyawaki method for restoring tropical forests



▪ About:

- It was **named after Japanese botanist Akira Miyawaki**, this method **involves planting two to four different types of indigenous trees** within every square metre.
- The **methodology was developed in the 1970s**, with the **basic objective to densify green cover** within a small parcel of land.
- In this method, **the trees become self-sustaining and they grow to their full length within three years**.
 - The **plants used in the Miyawaki method are mostly self-sustaining and don't require regular maintenance** like manuring and watering.

▪ Significance:

- The **dense green cover of indigenous trees plays a key role in absorbing the dust particles of the area** where the garden has been set up. The plants also **help in regulating surface temperature**.
 - Some of the common indigenous **plants that are used for these forests include Anjan, Amala, Bel, Arjun and Gunj**.
- These forests **encourage new biodiversity and an ecosystem which in turn increases the fertility of the soil**.

Miyawaki Forest Method in Mumbai

- Over the years, the cost-effective Miyawaki Plantation Method has **become the go-to solution to restore the green cover in a space-starved city like Mumbai**.
- The Brihanmumbai Municipal Corporation (BMC) **has been implementing the Miyawaki forest approach in various vacant land areas of Mumbai** to combat [climate change](#), [reduce pollution levels](#), and enhance the city's green cover.
 - 64 Miyawaki forests have been planted in Mumbai so far.

UPSC Civil Services Examination, Previous Year Questions (PYQs)

Q. The "Miyawaki method" is well known for the: (2022)

- (a) Promotion of commercial farming in arid and semi-arid areas
- (b) Development of gardens using genetically modified flora
- (c) Creation of mini forests in urban areas
- (d) Harvesting wind energy on coastal areas and on sea surfaces

Ans: (c)

Source: IE

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