

**Office of Dean of Sustainability**  
**Thapar Institute of Engineering & Technology**  
**(Deemed to be University)**  
**Patiala – 147004 INDIA**

**Activity:** Tree Plantation

**Location:** Backside of K-Hostel

**Date:** 18 March 2025, Tuesday

A tree plantation drive was conducted at the Backside of K-Hostel as part of our ongoing commitment to environmental sustainability. During this event, **30 Bakain (Chinaberry)** (*Melia Azedarach*) were planted with the participation of faculty members, students, and the horticulture department. This initiative reflects our dedication to afforestation efforts, biodiversity enhancement, and the promotion of green cover within our campus.

The plantation drive was conducted with active participation from faculty members, students, and the horticulture department. The event was guided by sustainability leaders, including:

1. **Prof. Rafat Siddique** – Dean of Sustainability, TIET
2. **Prof. Kulbir Singh** – Associate Dean of Sustainability-1, TIET
3. **Prof. Anoop Verma** – Associate Dean of Sustainability-2, TIET
4. **Dr. Hari Shankar Singh, Dr. Adil, & Dr. Abhinav** – Coordinator, Sustainability, TIET
5. Faculty members and Technical Staff from various departments
6. Students and horticulture staff

Their collective efforts emphasized the importance of environmental conservation and encouraged active participation in afforestation activities on campus.

### Details of Plants

Name of Plant	Botanical Name	No of Plants	CO <sub>2</sub> Absorption* (Pounds/year),
Bakain (Chinaberry)	Melia Azedarach	30	45-55

\* These values are averages for mature trees and can vary significantly depending on environmental factors such as sunlight, soil quality, and maintenance. Young or newly planted trees typically absorb less CO<sub>2</sub>.



Tree planting and watering by Prof. Rafat Siddique, DoS, TIET



Tree planting and watering by Prof. Kulbir Singh and Prof. Anoop Verma, Associate Dean of Sustainability, TIET



Tree planting and watering by Dr. Sheikh Adil Edrisi  
Coordinator, Sustainability, TIET

Tree planting and watering by Dr. Abhinav  
Coordinator, Sustainability, TIET



Tree planting and watering by Mr. Harish Kumar  
Associate, Office of DoS, TIET

Tree planting and watering by Mr. Kuldeep Kumar  
Associate, Office of DoS, TIET



Tree planting and watering by Mr. Rahul Kumar  
Technical Staff, DECE, TIET

Tree planting and watering by Dr. Hari Shankar Singh  
Coordinator, Sustainability, TIET



## Significance of the Planting Bakain (*Melia Azedarach*)

### Environmental Benefits

Bakain (*Melia Azedarach*) improves air quality by absorbing **45-55 lbs of CO<sub>2</sub> per year** and filtering pollutants. Its deep roots prevent soil erosion, enhance water retention, and contribute to groundwater recharge, making it essential for environmental conservation.

### Biodiversity & Habitat Support

The tree attracts bees, butterflies, and birds, aiding pollination and fostering biodiversity. Its dense foliage provides shelter and nesting sites for wildlife, enriching the ecosystem and promoting ecological balance.

### Sustainable Landscaping & Aesthetic Value

Bakain is fast-growing, drought-resistant, and low-maintenance, making it ideal for urban plantations. Its broad canopy provides shade and cooling, reducing temperatures and enhancing campus greenery.

### Medicinal & Traditional Uses

In many regions, palms symbolize peace, prosperity, and resilience. Planting the Bottle Palm serves as a reminder of the need for sustainable co-existence with nature.

(Kulbir Singh)  
Associate Dean Sustainability

(Rafat Siddique)  
Dean Sustainability