

Clean Plant Programme

Why in news?

The Union Cabinet recently has approved the Clean Plant Programme (CPP) under Mission for Integrated Development of Horticulture.

What is Clean Plant Program?

- **Clean Plant Program (CPP)** - It is a program to address critical issues in horticulture by providing access to high-quality, virus free planting material.
- **Launch** - It was first announced in Union Finance interim Budget speech in February 2023.
- **Aim** - It aims to *increase the yield and productivity of horticulture* crops in India and to enhance the quality of fruit crops across the nation.

Horticulture consist of fruits, vegetables, and flowers, spices mushroom, medicinal and aromatic plants. India is the **2nd** largest producer of fruits and vegetables in the world after China.

- **Nodal Ministry** - Union Ministry of Agriculture and Farmers Welfare.
- **Finances** - Budget allocation under Mission for Integrated Development of Horticulture (MIDH) and loan from the Asian Development Bank (ADB).
- **Integration with MIDH** - The CPP complements with the ongoing Mission for Integrated Development of Horticulture (MIDH).
- **Implementation** - It will be implemented by the *National Horticulture Board* in collaboration with the Indian Council of Agricultural Research (ICAR).
- **Core components**
 - Development of nine Clean Plant Centers (CPCs)
 - Enhancement of infrastructure
 - Creation of regulatory and certification process

Clean Plant Centers

- Provide disease diagnostics and therapeutics
- Create mother plants to be sent to nurseries
- Quarantine all domestic and imported planting materials intended for commercial propagation and distribution

Enhancement of infrastructure

- Development of large-scale nurseries to facilitate the efficient multiplication of clean planting material
- The mother plants obtained from the CPCs will be multiplied in nurseries and distributed to farmers

Creation of regulatory and certification process

- It is to ensure thorough accountability and traceability in the production and sale of planting material, that will be implemented under the Seeds Act of 1966.

Clean Plant Centers

- The CPCs will be established in collaboration with the Indian Council of Agricultural Research (ICAR) for specific horticulture crops.
- Each CPC will be linked to a different ICAR institute.

| CPC Location | Crop | Linked ICAR Institute |
|------------------------------|---|--|
| Pune, Maharashtra | Grapes | National Research Center for Grapes, Pune, |
| Bikaner, Rajasthan | Citrus fruits | Central Institute of Arid Horticulture, Bikaner. |
| Nagpur , Maharashtra | Citrus fruits | Central Citrus Research Institute, Nagpur. |
| Solapur, Maharashtra | Pomegranate | National Research Center on Pomegranate - Solapur. |
| Bengaluru, Karnataka | Mango, Guava, Dragon Fruit and Avocado | Indian Institute of Horticultural Research, Bengaluru. |
| Srinagar , Jammu and Kashmir | Temperate Fruits - Apple, Almond, Walnuts, etc. | Central Institute of Temperate Horticulture (CITH), Srinagar |
| Mukteshwar, Uttarkhand | Temperate Fruits - Apple, Almond, Walnuts, etc. | Regional Station of CITH, Mukteshwar. |
| East India | Tropical and Subtropical Plants | East India Horticulture center in West Bengal and Jharkhand. |
| Lucknow | Mango, Guava, Litchi | Central Institute for Subtropical Horticulture , Lucknow. |

What are the benefits of CPP?

Benefits of CPP

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|---|--|
| Farmers | <ul style="list-style-type: none"> • Increased Crop Yields - By providing virus-free, superior planting material, it aims to boost crop yields. • Enhanced Income Opportunities - Higher quality produce will lead to better market prices and income for farmers |
| Nurseries | <ul style="list-style-type: none"> • Propagation - Streamlined certification processes and infrastructure support will help nurseries in efficiently producing clean planting material. • Sustainability - Improved facilities will foster growth and sustainability in the nursery sector |
| Consumers | <ul style="list-style-type: none"> • Superior Produce - It ensures that consumers receive virus-free fruits but also enhanced in taste, appearance, and nutritional value. • Affordable Cost - It will significantly reduce the cost of fruits by increasing the production. |
| Exports | <ul style="list-style-type: none"> • Global Market Strengthening - With higher-quality, disease-free fruits, India will enhance its position as a leading global exporter. • Thereby expanding market opportunities and increasing its share in the international fruit trade. |
| Inclusion | <ul style="list-style-type: none"> • Farmers - It aims to provide affordable access to clean plant material for all farmers, regardless of their landholding size or socioeconomic status. • Women Farmers - The programme will also actively engage women farmers, ensuring their participation in planning, resource access, training, and decision-making processes. • Regional growth - CPP will address the diverse agro-climatic conditions across India by developing region-specific clean plant varieties and technologies. |
| Alignment with Broader Initiatives | <ul style="list-style-type: none"> • It aligns with broader initiatives such as Mission LiFE (Lifestyle for Environment) and the One Health approach. |

What are its significances?

- **Reduce Fruit Import** - India is a major importer and exporter of fresh fruits.
- In the financial year 2023-24, India exported fresh fruits worth \$1.15 billion, while it imported fruits worth \$2.73 billion.
- **Reduce import of plant materials** - With the rising consumption of foreign and exotics fruits such as avocado and blueberry, demand has specifically increased for their planting materials.
- **Address import bottlenecks** - At present, imported plants have to be kept in quarantine for two years.
- The CPCs will cut this period down to six months.
- Thus CPP can bolster India's position in the global fruit market.

Quick Facts

Mission for Integrated Development of Horticulture (MIDH)

- It is a Centrally Sponsored Scheme.
- **Launched in** - 2014-15.
- **Aim** - For holistic growth of the horticulture sector covering fruits, vegetables, root & tuber crops, mushrooms, spices, flowers, aromatic plants, coconut, cashew, cocoa and bamboo.
- **Key Features**
 - **Plantation Infrastructure Development** - Establishing nurseries and tissue culture units to produce quality seed and planting material.
 - **Area Expansion** - Creating new orchards and gardens for various crops, with or without integration (e.g., drip irrigation).
 - **Rejuvenation** - Revitalizing old, unproductive orchards.
 - **Protected Cultivation** - Setting up poly-houses, greenhouses, shade net houses, and walk-in tunnels, along with micro irrigation facilities.
 - **Promotion of Organic Farming** - Encouraging organic practices, certification, and establishing vermi compost units.
 - **Creation of Water Resources** - Developing community tanks, on-farm ponds, and water harvesting systems.
 - **Pollination Support through Beekeeping** - Producing bee colonies, honey bee hives, and related equipment.
 - **Horticulture Mechanization** - Providing power tillers, tractors, and plant protection equipment.
 - **Human Resource Development** - Conducting awareness programs, farmer training, exposure visits, and study tours.
 - **Post-Harvest Management (PHM) Infrastructure** - Setting up cold storage, pack houses, ripening chambers, reefer vehicles, processing units, and food processing facilities in North Eastern States.
 - **Marketing Infrastructure** - Developing static and mobile vending carts, retail outlets, rural markets, wholesale markets, and direct market platforms.

References

1. [Indian Express | Centre's Clean Plant Program](#)
2. [PIB | Transforming Horticulture with CPP](#)