

# Oil Palm Cultivation in North East India

### Why in news?

The push for large-scale monoculture plantations of oil palm is taking a toll on the environment and on people's economic and social security

#### What is Oil Palm?

- Oil palm is world's most important oil crop, supplying approximately <u>40% of global</u> <u>demand for vegetable oil</u>.
- Nativity A <u>native species of West Africa</u> and now widely cultivated, especially in Southeast Asia.
- Types It produces two distinct oils- Palm oil and Palm kernel oil.
- **Palm oil** It is derived from fleshy mesocarp of the fruit, which contains about 45-55% of oil.
- Palm kernel oil It is obtained from the kernel of stony seed, is a potential source of lauric oil.
- Major Producers Indonesia and Malaysia.
- Malaysia is the world's second-largest producer of palm oil after Indonesia
- **Palm oil usage** It has a variety of uses ranging from edible oil, cosmetics, and pharmaceuticals to bio-fuel and bio-lubricant.
- **Health benefits** Palm oil is in rich natural nutrients, including *tocotrienols*, which support cardiovascular health and offer antioxidant properties.

Tocotrienols is an excellent source of fatty acids, free of transfats, and contains lower levels of omega-6. Its antioxidant properties also aid in conditions such as Alzheimer's and Dementia.

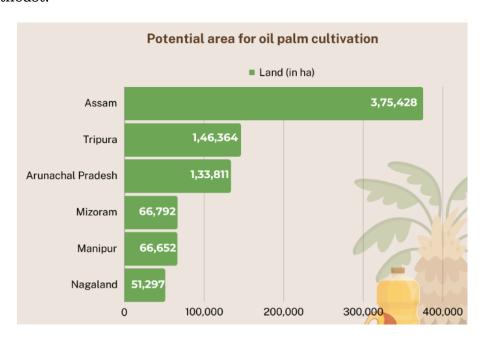
### Status of Oil Palm in India

- India is the *world's largest importer* of edible oils most times.
- Palm oil dominates India's edible oil imports, representing more than 50% of all edible oil imports.
- In 2021, palm oil import was *valued at approximately \$US 8.63 billion*.

### What are the measures taken by India to improve its cultivation?

- **Need for local cultivation** Major palm oil-producing countries such as Malaysia and Indonesia are *planning to cut the production* to meet the environmental needs.
- National Mission on Edible Oils-Oil Palm It was launched in 2021, a Centrally Sponsored Scheme with a *special focus on the North east region* and the Andaman and Nicobar Islands.

- **Aim** It is aimed to increase the area of oil palm cultivation in India to one million hectares by 2025-26.
- **Target** To increase the production of crude palm oil from 27,000 tonnes in 2019-20 to 1.12 million tonnes by 2025-26.
- **Coverage** <u>More than 50%</u> of the proposed increase in the area of cultivation, 328,000 ha, is <u>planned in the northeastern states</u>, as identified in an assessment by the Indian Institute of Oil Palm Research in 2020.
- Implementation <u>Mizoram was the first state</u> to start planting oil palm in the northeast.



## What are the challenges in cultivation in Northeast India?

- Capital Intensive Initial setup requires large scale investment.
- **Insufficient Land** It require large tract of monotonous lands.
- **High input need** It require large amount of water and nutrients.
- **Irrigation need** It requires evenly distributed rainfall of <u>150mm/month</u> or 2500-4000mm/annum.
  - Rainfall distribution in India is not even and adequate.
- **Long gestation period** It takes at least *four to five years* before it starts producing fruit, followed by a productive period of 20 to 25 years.
- **Logistical challenge** Rugged terrain and remote location of the plantations, coupled with the relatively poor road network.
- Inadequate oil mills Absence of oil mills close to many of the plantations.
- **Perishable nature** Oil Palms have to be *processed within 24 to 48 hours post-harvesting*.
- **Procurement issues** Delay in procurement and reduction in procurement prize based on quality discourages farmers.
- **Natural Disaster** Conversion of forest areas into plantation makes them vulnerable to landslide.
- **Delay in subsidies** Delays, reduction or even complete stoppage of payment of the committed government subsidies.

Sikkim and Meghalaya have decided to stay away from planting oil palm.

# What are its impacts in Northeast India?

- **Social disruption** Land in Northeast region are mostly community owned for subsistence farming where introduction of oil palm plantation <u>causes shift in land</u> <u>tenure and ownership</u>.
  - The capture of common lands for planting oil palm by the elite of the society is a large-scale problem, especially in Arunachal Pradesh.
- It furthers the <u>marginalisation of the poorer sections</u> of society and could potentially <u>lead to social turmoil and conflict</u>.
- **Environmental impact** <u>Deterioration of soil health</u> and the quality and availability of <u>groundwater</u>.
- **Ecosystem change** Conversion of large scale forest to plantation has significantly affected the local flora and fauna.
- **Economic impact** Rapidly increasing labour costs in the region and women losing out on employment opportunities.
- **Biowaste** Each tonne of crude palm oil produced generates approximately 4 tonnes of dry palm biomass and 3.5 tonnes of palm oil mill effluent.

#### What lies ahead?

- Take into account local environmental factors before converting the forest to plantation.
- Include the experiences from similar tea and coffee plantations impacts in the region.
- Safeguarding social welfare through fair labour practices.

#### Reference

Down To Earth | Challenges & Impacts of Palm oil in Northeast India

