



Neem Seed



Management Practices

- Light irrigation during early growth
- Weeding during first 1–2 years
- Pruning improves canopy and growth
- Resistant to most pests and diseases

Chemical Composition-Neem plant contains flavonoids kempferol, quercetin and myricetin. The trunk bark contains nimbin, nimbinin, nimboesterol, tannins and a bitter principle margosin.

Uses of Neem

Medicinal Uses

- Treatment of skin diseases
- Blood purifier
- Antibacterial and antifungal properties

Agricultural Uses

- Neem oil as bio-pesticide
- Neem cake as organic fertilizer
- Control of insects and soil pests

Neem in Agroforestry

- Suitable for boundary plantations
- Compatible with agricultural crops
- Improves soil fertility
- Helps in carbon sequestration

Economic Importance

- High demand for neem-based products
- Low maintenance cost
- Provides additional income to farmers

Neem is a climate-resilient, eco-friendly, and multipurpose tree that supports sustainable agriculture, human health, and environmental protection.

Message-"Plant Neem Today for a Healthier Tomorrow"

Introduction

Native to the Indian subcontinent, neem is a versatile, evergreen tree that grows quickly. Because of its many medical and agricultural use, it is commonly referred to as the "Village Pharmacy." The varied agroclimatic conditions of Madhya Pradesh are ideal for neem development. Throughout the state, the tree is frequently found near community areas, village roads, agricultural boundaries, and woodland edges. Neem thrives in rainfed environments, which makes it perfect for many Madhya Pradesh districts with scarce water supplies. Neem has long been prized in the state for its agricultural applications, therapeutic qualities, and environmental advantages. Neem oil and neem cake are commonly used by farmers as organic manure and environmentally friendly pesticides. Additionally, neem trees aid in microclimate regulation, soil conservation, and soil health enhancement. Neem is a crucial species for agroforestry, social forestry, and farm forestry initiatives in Madhya Pradesh because of its resistance to drought, low care needs, and capacity to adapt to poor soils. Its versatility promotes rural livelihoods, climate-resilient farming systems, and sustainable agriculture.

Botanical Description

- **Botanical Name:** Azadirachta indica
- **Family:** Meliaceae
- **Height:** 15–20 m
- **Leaves:** Compound, bitter, green
- **Flowers:** White, fragrant
- **Fruit:** Yellow drupe with seed
- **Leaffall:** February – March and the new leaf appears immediately.
- **Flowering Time:** January - March

Climate and Soil Requirements

- **Climate:** Tropical and subtropical
- **Elevation:** about 700 m.
- **Annual Rainfall:** 400–1200 mm
- **Temperature:** 20–40°C
- **Soil:** Sandy loam to clay loam
- **Soil pH:** 6.0–8.5
- **Special Feature:** Drought and salinity tolerant

Propagation and Planting

- **Propagation Method:** Seed
- **Seed Collection:** June–July
- **Nursery Period:** 3–4 months
- **Spacing:**
 - Forestry: 5 × 5 m
 - Agroforestry: 8 × 8 m.



Neem Flower



Neem Fruit

एग्रीकल्चर फ़ोरम फॉर टेक्निकल एजुकेशन ऑफ़ फार्मिंग सोसायटी

कोटा, राजस्थान



A Multipurpose Tree for Sustainable Agriculture

संकलन

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