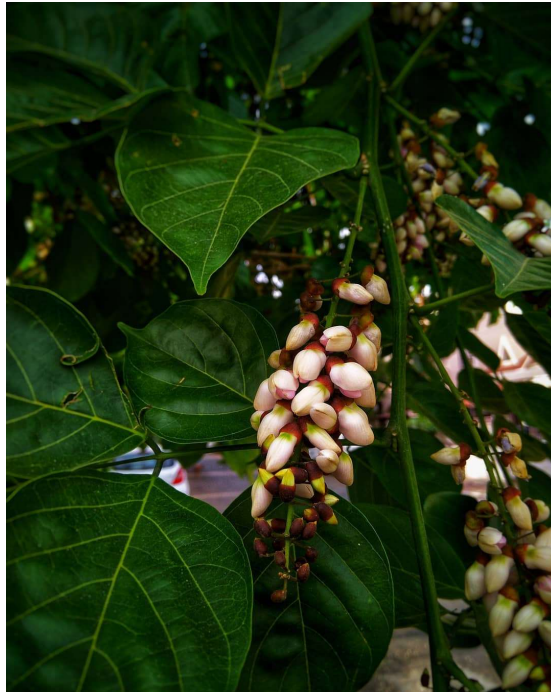




SIGMA[®]
UNIVERSITY

Karanj



Synonym:

Gujarati: Karanj

Hindi: Karanj / Karanja

English: Indian Beech Tree

Botanical name: *Pongamia pinnata*

Family: Fabaceae (Leguminosae)

Chemical Constituent:

- **Flavonoids:** Pongamol, Karanjin, Glabrin
- **Fixed Oils:** Rich in fatty acids (oleic, linoleic, palmitic)
- **Other Compounds:** Sterols, tannins, glycosides

Therapeutic Effect:

- **Skin Disorders:** Effective in eczema, psoriasis, leprosy, and ulcers
- **Antimicrobial:** Strong antibacterial and antifungal properties
- **Anti-inflammatory:** Reduces swelling and irritation
- **Wound Healing:** Promotes tissue regeneration

- **Insecticidal:** Used in organic farming as a natural pesticide

Marketed preparation:

- **Karanj Oil (Pongamia Oil):** Widely available for topical use in skin conditions
- **Ayurvedic Formulations:** Used in ointments, creams, and herbal pest repellents
- **Agricultural Use:** Bio-pesticide and soil enhancer

Key Constituents:

- **Karanjin** – bioactive flavonoid with insecticidal and medicinal properties
- **Pongamol** – antioxidant and antimicrobial
- **Fatty Acids** – nourishing and protective for skin

Uses:

- Medicinal

- Treats skin diseases (eczema, scabies, leprosy)
 - Heals wounds and ulcers
 - Acts as an anti-inflammatory and analgesic
- Agricultural:
 - Natural pesticide and fertilizer
- Traditional:
- Twigs used as toothbrushes
- Oil used in lamps and soaps