

***Botanical Name- - Jatropha curcas***  
***Common Name – Ratanjot, Jetropa***



**Uses**

1. Biodiesel Production: Seeds yield non-edible oil, ideal for biodiesel.
2. Medicinal Applications: Leaves, seeds, and latex are used for traditional remedies (e.g., wound healing, anti-inflammatory).
3. Soil Erosion Control: Acts as a hedge to prevent soil loss.
4. Organic Fertilizer: Seed cake, rich in nutrients, is used as compost.
5. Biopesticides: Extracts repel insects and pests.
6. Soap Making: Oil is used in soap and detergent manufacturing.
7. Illuminant: Oil is burned in lamps in rural areas.
8. Bioenergy Source: Used for generating electricity and heat.
9. Animal Feed: Detoxified seed cake is used as a protein source.
10. Biogas Production: Seed cake is fermented to produce methane.
11. Paint and Varnish Production: Oil is used as a base for paints.
12. Sustainable Forestry: Grows in arid areas, restoring degraded land.
13. Livestock Fencing: Dense hedges protect fields and animals.