



Official Name		ज्योतिष्मती	
Botanical Name		<i>Celastrus paniculatus</i> Willd.	
English name		Black seed oil plant or intellect tree	
Family		Celastraceae	
Taxonomic Classification		Kingdom- Plantae Phylum-Tracheophyta Class- Magnoliopsida Order- Celastrales Family- Celastraceae Genus- Celastrus Species-paniculatus Infraspecies- Celastrus paniculatus paniculatus	
Synonyms		<ol style="list-style-type: none"> 1. लत□- It is a climber. 2. ज्योतिष्क□- It is having stem with shiny dots. 3. सुवर्णलतिक□- It has yellow flower. 4. अग्निभ□- It has yellow coloured flower . 5. सूक्ष्मफल□- Fruits are small. 6. काकण्डी - Resembling crow's eggs. 7. कङ्गुणिक□- Seeds like millet grains. 8. पण्य□- Which are article of trade. 9. पीततैल□- It yields yellow oil. 10. दुर्जर□ They are difficult to digest. 11. दुर्मद□ It cause narcosis in excessive dose. 12. व□□ They are quickly acting. 13. मध्य□- It promotes intellect. 14. लवण[- It alleviate many disorders. 	
Habitat		Zone- Foot hill zone and Mountain zone Found all over the sub - himalayan tract upto 2000 - 6000 m and south Indian hills.	
Botanical Identification	Habit	It is large, deciduous, climbing unarmed shrub attending a height of 10m.	
	Root	Taproot-Woody hard	

	Stem/Bark	It is long slender elongating branches which are reddish brown with stem up to 23 cm in diameter and covered with elongate lenticels. Young branches have white spots those are the lenticels.																							
	Leaves	<table border="1"> <tr> <td>Phyllotaxy</td> <td>Alternate - Spiral</td> </tr> <tr> <td>Simple/Compound</td> <td>Simple</td> </tr> <tr> <td>Lamina</td> <td>Ovate or obovate</td> </tr> <tr> <td>Texture</td> <td>Glabarous</td> </tr> <tr> <td>Tip</td> <td>Bluntish or shortly acuminate</td> </tr> <tr> <td>Base</td> <td>Rounded or acute</td> </tr> <tr> <td>Margins</td> <td>Crenate-serrate in upper part, usually entire near base.</td> </tr> <tr> <td>Venation</td> <td>Reticulate-Unicostate</td> </tr> <tr> <td>Attachment</td> <td>Petiolate</td> </tr> <tr> <td>Stipules</td> <td>Exstipulate</td> </tr> <tr> <td>Petiole</td> <td>6-12 mm long</td> </tr> </table>	Phyllotaxy	Alternate - Spiral	Simple/Compound	Simple	Lamina	Ovate or obovate	Texture	Glabarous	Tip	Bluntish or shortly acuminate	Base	Rounded or acute	Margins	Crenate-serrate in upper part, usually entire near base.	Venation	Reticulate-Unicostate	Attachment	Petiolate	Stipules	Exstipulate	Petiole	6-12 mm long	
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	Inflorescence	Paniculate																							
	Flower	<p>Yellowish or greenish white , unisexual in terminal pyramidal panicles, 5-15 cm long, pedicles pubescent, bracts small and lanceolate.</p> <p>Male Flowers-Stamens inserted on margins of disc, filament short, anther oblong, rudimentary ovary small, subconical slightly 3-toothed at apex.</p> <p>Female Flowers- Ovary globose, narrowed into short stout style, glabrous stigma large 3-lobed , stamens inserted on the edge of the disc , anthers small without pollen, ovate, acute or subtriangular.</p>																							
	Floral formula / Diagram	$\text{♀} \oplus \text{K}(4) \text{C}_4 \text{A}_4 \text{G}(2)$																							

	Fruit		Capsule 9-12 mm in diameter, subglobose, bright yellow, transversely wrinkled, 3-valved, the valves are spreading after dehiscent and remaining united at the base exposing seeds.	
	Seed		Seeds 1-6, brownish, smooth, arillate, often solitary, completely enveloped in scarlet, fleshy aril.	
Types			<ul style="list-style-type: none"> • <i>Celastrus paniculatus</i> subsp. <i>aggregatus</i> K.M. Matthew • <i>Celastrus paniculatus</i> subsp. <i>angladeanus</i> Britto, B.Mani & Sinj.Thomas • <i>Celastrus paniculatus</i> subsp. <i>multiflorus</i> D.Hou • <i>Celastrus paniculatus</i> subsp. <i>paniculatus</i> • <i>Celastrus paniculatus</i> subsp. <i>serratus</i> Blanco D.Hou 	
Rasapanchaka			रस- कटु, तिक्त गुण- तीक्ष्ण वीर्य- उष्ण विपाक- कटु प्रभाव- मध्य	
Chemical Constituents			Seeds- Celapanin, Celapagine, Celapanigine, Pristimerin Stem- Alkaloids such as Wifornine F, Paniculatine A and B Root bark- n-triacontanol and pristimerin, Zeylaseral. Leaves- Dulcitol	
Market information			Price may vary from Rs.560/kg to Rs. 900/kg. due to area distribution.	
Adulteration/Substitution			<u><i>Cardiospermum helicacabum</i></u>	
Cultivation			When seedlings were 8-10cm in height these were carefully dug up from nursery beds . Weeding was done as often as found necessary and hoeing twice a month.	
Flowering season			April-June.	
Harvesting			-	
Present Status- Not concerned/ Endangered/ Extinct			Not concerned	
Conservation method			Nil	

Main Uses	मध्य, वातकफशामक, दीपन, वाजीकरण, कुष्ठघ्न, ज्वरघ्न आदि	
Part used	Seeds and oil	
D o s e	Medicinal Dose	बीज-1-2 gm तैल- 5-15 बूँद
	Toxic Dose	Nil
	Fatal Dose	Nil
Toxicity (if any)	It has been reported that it seems to be safe at a dose level of 2000 mg/kg after that toxicity occurs.	
Antidote or treatment (if any)	-	
Purification (if any)	-	
Formulations	ज्योतिष्मती तैल	