



Botanical Name	Santalum album L.
Name in English	Sandalwood
Name in Kannada	Shreegandha
Family	Santalaceae
Seeds Collection	Sandal fruits are collected fresh from the tree or as soon as they have fallen on the ground during April- May and September-October. They are soaked in water and rubbed to remove the soft pulp. The wet seeds are dried under shade and dry seeds stored in polythene or gunny bags.
Seeds Processing & Treatment	About 6,000 seeds weigh to a kilogram. Fresh seeds take 4 to 12 weeks to germinate after dormancy period. Eighty percent of seeds are viable up to 9 months. Germination is about 80 percent under laboratory conditions and 60 percent under field conditions. Germination can be hastened by soaking seeds in 0.05% gibberellic acid overnight and then sowing, which ensures uniform germination. Soaking seeds in cow dung slurry will not improve germination.
Nursery	Viability (i.e., seed fertility) is 25 to 40% up to one year – seeds of 28 months gave 6% success. De-pulped seeds give better germination per cent. Rats eat away the seeds and so it is usual to roll the seeds in main red lead

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	or in Acorus paste. Germination takes place 1 to 3 months after sowing.
	Seed beds are formed with only sand and red earth in the ratio 3:1 and are thoroughly mixed with nematicides (Ekalux or Thimet at 500 g per bed of 10 m x 1 m). Around 2.5 kg seed is spread uniformly over the bed, covered with straw which should be removed when the leaves start appearing on the seedlings. Sandal suffers from a very virulent disease caused by combined fungal and nematode infection. The initial symptom is that of wilting of leaves followed by sudden chlorosis and root decay. On account of this the mortality rate is very high, which can be controlled by the application of nematicide (Ekalux) and fungicide (Dithane). Seeds beds are to be sprayed with fungicide Dithane Z-78 (0.25%) once in 15 days to avoid fungal attack and 0.02% Ekalux solution once in a month to avoid nematode attack.
	When seedlings have reached 4 to 6 leaf stage, they are transplanted to polybags along with a seed of tur dal (Cajanus cajan), the primary host for better growth of sandal. Seedlings are carefully removed from beds with all roots intact; roots should not be allowed to dry. Shade can be provided for a week immediately after transplantation. Watering is to be done once a day, but excess moisture is to be avoided. Host plants are to be pruned frequently, so that they do not over grow sandal and hamper its growth. Polybags should contain soil mixture of ration 2:1:1 (Sand: Red earth: Farmyard manure). It has been found that polybags of 30 x 14cm size are the best. To avoid nematode attack Ekalux of 2 gm/polybag or 200 gm for 1m3of polybag mixture should be thoroughly mixed before filling the bags. Shifting may be done once in two months to avoid root penetrating soil and grading is to be done once in three months. Weeding is to be done at regular intervals.
Plantation Management	Rainfall in the chief sandal tracts varies between 625 mm to 1625 mm. Temperature 19°C to 28.5°C. Soil: Flourishes best generally on red ferrugineous loam of the underlying rock being often metamorphic,
	chiefly gneiss. Found also on rocky ground stony or



Those grown on proper soils are said to form more scented heartwood. Requires good drainage and does not stand water logging. Avoids saline and calcareous soil and is not generally found on black cotton soil.Coppice – Young trees coppice well. Older trees are stated not to coppice at all except on ground along the banks of water courses.Root sucker – Freely produces when roots are exposed or cut through or where parent tree has been grubbed up.Tending in earlier stages: 1) Maintenance of good host plants and their tending, 2) Provision for free and natural expansion of the crown, 3) Felling of suppressed plants, 4) Providing light lateral shade to avoid sun-scorch with free overhead light. In the later stages, 1) Tending of hosts and, 2) Climber cutting Drought – Capable of withstanding moderate drought, but prolonged drought kills it. Fire – Extremely fire tender and may be killed outright or injured and rendered unsound. Grazing and browsing – Moderate grazing does not seem to have any adverse effect. Grazing is in fact inimately connected with its occurrence to keep out fires by keeping the grass low. It is readily browsed by cattle and deer and rabbit particularly in the dry season when grass is scarce and this constitutes the real danger to which it is subjected. Injury by man – Being very much prized for its scented wood, it is always subject to heavy illicit felling.Model/SpacingIdeal spacing is 2.5 x 2.5 mPests, diseases and ManagementThe possible danger to the species is from some of the forest insects which are vectors of spike disease. Spike disease – This disease is responsible for very serious loss year after year as it ultimately kills the trees in all the stages. It is caused by a virus carried from tree to tree by perhaps some forest insects. Experimen		gravelly soil. Is not exacting as to depth of soil. Grows best on moist fertile alluvium along banks of stream.
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Uses Sandalwood works as an anti-inflammatory agent. Sandalwood is mainly used in perfumery products.		



	Congature		
	alwood essential oil used in aromatherapy to		
	ce stress, hypertension.		
Sand	alwood essential oil heals wounds and treating		
skin	blemishes.		
Sand	alwood used in deodorants and can be blended		
with	other essential oils to make different fragrances.		
Sand	alwood is used in religious rituals.		
Sand	alwood essential oil has antiseptic, anti-		
infla	nmatory, antispasmodic and astringent		
prop	erties.		
Sand	alwood essential oil is a memory booster.		
Buyers /Industries Karn	ataka soaps and detergents Itd. Mysore Sandal		
soap	S		
Harvesting Usua	lly, sandalwood trees will be ready for harvesting		
after	30 years of planting. During harvesting of		
sand	alwood, the soft wood is removed and then hard		
wood	d is chipped which would be converted into		
powe	der in a mill. After soaking the powder in water for		
2 da	ys (48 hours) and distilled. The essential oil from		
sand	alwood is rectified by re-distillation and filtration		
Economic Returns Value	ed for its heartwood which is strongly scented. The		
wood	d is used for carving and fancy work. Oil distilled		
	used in perfumery and medicines for which it is the		
most	valuable wood in India.		
Sand	alwood heart wood is costing about 6,000 Rs/kg.		
Tota	yield of 5,000 kg can be expected per acre		
Net	profit can be expected is about 2,74,00,000/acre.		
Current Market Rate Rs. 6	000 per kg		