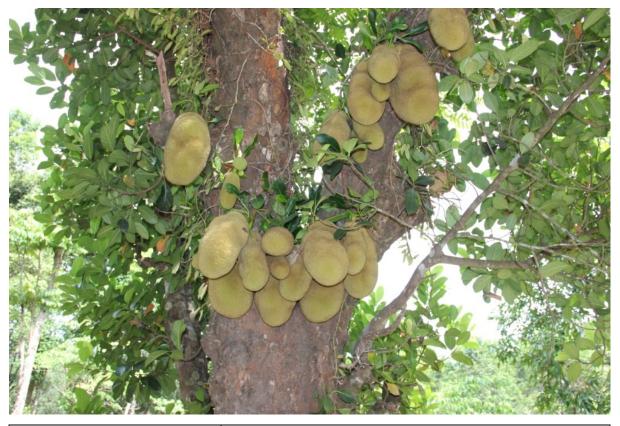


## Jack Fruit



Botanical Name	Artocarpus heterophyllus L.
Name in English	Jack fruit
Name in Kannada	Halasu
Family	Moraceae
Seeds Collection	Fruits start bearing from 7 <sup>th</sup> year onwards. Harvesting of fruits starts from March – June. Seeds from the ripe fruit are separated.
Seeds Processing & Treatment	No processing and pre-treatment required. Immediately after harvest it has to be used for germination, otherwise loses its viability.
Nursery	Jackfruit is commonly propagated by seeds. Seed should be sown immediately after extraction since they lose their viability during storage. Soaking seed in NAA (25 mg/Lof water) for 24 hrs improve their germination and seedling growth.
	Air layering: It is one of the best methods to obtain true to type plant. Air layering of one-year-old shoot of bearing plant gives higher success when treated with IBA (500 ppm).
	Soft wood grafting: Large scale propagation of jack can be done by cleft grafting during July-August on 4-month-old seedling rootstock
Plantation Management	Deep well drained soil is necessary for jack cultivation. Soil pH around 5.5 at the time of planting is desirable. Otherwise treat



	the soil with 1% Aluminium sulphate in the pit to reduce the pH.
	The crop comes up well in the plains and up to an elevation of
	1200 m.
	Dig pits of 1 m x 1 m x 1 m. Fill up the pits with top soil mixed
	with 10 Kg of FYM and 1 Kg of neem cake per pit. Plant
	preferably grafts during June – December at 8 x 8 m spacing.
	Once in a week till the plant gets established. Thereafter
	irrigation is given as and when necessary.
	The manures and fertilizers should be applied in two splits
	during May - June and September - October.
	It is advisable to utilize the inter-space by growing some
	intercrops during the gestation period of jackfruit, which gives
	some extra income to the grower. Vegetable like radish, brinjal,
	chilli, cabbage etc can be grown with assured irrigation
	facilities.
	Jackfruit is cultivated in northeast as a rainfed crops. The young
	trees are sensitive to drought. So, for better growth of the
	seedlings, watering should be done during summer and winter
	months.
-	Seedlings are planted in square system with spacing of 10m
	x10m. June to August is ideal time for planting.
_	Fruit borer: Apply Carbaryl 50 WP @ 2 g/lit.
	Spittle bug: Spray methyl parathion 50 EC 2ml/lit or Methyl
	demeton 25 EC @ 2ml/lit. or Phosphamidon 40 SL 2 ml/lit or
	dust Methyl parathion 2 D or Quinalphos dust 1.5 D.
	Rhizopus rot: Spray 1 % Bordeaux mixture or Copper
	oxychloride 2.5 g/lit. Three sprays must be given at 15 days
	interval.
Plant Rotation	Crop rotations with leguminous plants which enhance nitrogen
	content. Keep soils covered year-round with living vegetation
	and/or tree residue.
Yield	The crop yields about 30-40 t/ha. First fruiting take place 6-8
	years after planting. The fruits mature towards the end of
	summer in June. The yield of jackfruit varies widely with the
	type and climate condition. The trees produce a few fruits to as
	high as 250 to 300 fruits/tree/year.
	They grow up to 40 kg and sometimes more. Smaller fruits
	weigh 8-10 kg easily.
	Its fruits are used both for culinary purposes and as table fruit
	but it is mainly used for culinary purposes. Tender fruits appear
	in the market in spring and continue till late summer as popular
	vegetable. Since common vegetables are scarce and costly at
	that time of the year, jackfruit enjoys a high demand and
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Harvesting	The yield commences from 5th year in grafts and 8th year in
	seedling trees. Harvest is done during March-July
Economic Returns	With 40 trees per acre, the total yield is 2000 fruits per acre.
	Assuming that the fruits are all 10 kg, the average yield of 20
	tonnes is modest. Farmers are known to cultivate up to 32
	tonnes and some more but even with the least yield per acre,
	you can assume that the farmer will get 2,00,000 rupees per
	year from an acre of jackfruit plantation.
Current Market Rate	Rs. 1500 – 2200 per CFT