



# Maatitvatva

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## **Bamboo Plant Cultivation**

## ➤ Introduction:



**B**amboo is one of the commercially cultivated crops in India and it is also considered as 'a poor man's timber'. India is the second largest producer of Bamboo in the world after China. The yearly bamboo production in the country is estimated at around 3.23 million tons. In Asia, bamboo is the most

integrated part of the culture and is used as a substitute to woods. Although there are around 136 species of bamboo that exist in the country, still only some of them are commercially feasible.

## ➤ Usage:

**T**oday, over one billion people in the world live in houses made of bamboo. It is being used in road reinforcements in India and it is also used in bridges built in China. It is mainly used as construction material, furniture, pulp and plywood. India is very fortunate to be blessed with good bamboo resources. Roots and leaves have also been used to treat venereal diseases and cancer. Moreover, the bamboo shoots are consumed as food and are considered good source of nutrition. The northeastern states are the major bamboo producing states in the country. It is also used to make necklaces, bracelets, earrings, and other types of jewellery.



## ➤ Land Preparation:

**B**amboos can be grown well in very shallow soils if adequate fertility and moisture are maintained. The soil you use should both drain well and retain moisture.

The bamboo plantation grows well in hot to warm temperate climatic conditions. But it must be remembered that it doesn't require temperature below 15 degree Celsius in the summers.

Since the bamboo has thin roots as well as ample growth, you must make provisions to protect it from strong winds. Also, areas that receive cold winds are just not apt for bamboo cultivation as the winds kills the tips of bamboo leaves.



## ➤ Soil Requirement:

**B**amboos can be grown and cultivated on a wide variety of soils except for rock-strewn soils.

Bamboo plantation also requires well drained sandy soil to clay soil that should have a ph range of 4.5 to 6.0. If we talk about India, then the Barrack Valley region is best suited for bamboo cultivation due to best soil and perfect climate conditions.

## ➤ Propagation:

**N**ormally, the bamboos are propagated through the culms cuttings or rhizomes. But they can also be propagated through the seeds, which are very rarely available. Bamboo seedlings are basically raised on nursery beds and for a year or so they are allowed to grow on poly pots. Later the seedling is transferred into the main field. In the rhizome planting method, a little care is needed. Here, culms of 1 year along with roots should be dug and cut into 1 meter size and be planted in the rainy season.

Usually bamboo planting is done in the rainy season. The pits size of 60X60 must be dug and nursery-raised seedlings should be planted at a space of 5X4 meter. The number of bamboo plants that can be placed in 1 acre land is about 200. The gestation period in bamboo planting is 5 years. Hence the inter space can be used during first 3 years for earning some extra income by growing inter crops such as ginger, chilies or turmeric.

### ➤ Manure & Fertilization:

**F**or high quality and best yield, fertilizers are used. Manure and fertilization are important when the seedling is transplanted in the main field. As the bamboo plants are heavy feeders, even the richest soil will get washed-out after few years, if fertilizers are not applied on them. But it is always suggested to apply fertilizer after harvesting and previous to irrigating the plants. Potassium and Nitrogen are vital components of the fertilizer due to which the bamboo trees respond and grow well. Also you must apply green manures, organic compost, wood ash and chemical fertigation.

Leaf biting and sucking insects are common in young bamboo plants. Hence appropriate pesticides should be applied to control these pests.

### ➤ Irrigation:

**I**rrigation must be done regularly while the bamboos are grown on nursery beds. Immediate water should be provided at the time of transplanting seedlings from nursery to main field. It must be noted that bamboo trees are sensitive to water logging hence you must drain out the soil especially during heavy rainfall or flooding. You can also adopt drip irrigation system for better utilization of water.

### ➤ Harvesting:



**T**he harvesting can be started from the fifth year onwards. On the other hand, in case of commercial farming, harvesting must be done from the sixth year. In the first harvest – sixth year, 6 culms can be harvested followed by 7 culms in the seventh year and so on.

The unit cost for one acre of bamboo plantation is around Rs 9400 spread over a period of five years. And

as we mentioned above, harvesting starts from the sixth year onwards. The yield and income from bamboo plantation, increases each year starting from the sixth year. Hence we can say that Bamboo is a cash crop having low gestation period, faster growth and gives economic recurring returns, generation after generation.

### ➤ Economic Of One Acre Bamboo Cultivation:

#### Expenditure:

Distance (in acre)	Sapling (in land)	Cost of plants (per plants)	Total	Other Expenses (As Per Requirement)	Cost of cultivation
15X8	350 plants	100rs /plant	350plantX100= 35,000/-	Fertilizers Land preparation Labor expenses etc.	35,000/-
<b>Total Cost Of Cultivation: 35,000/-</b>					

#### Income:

Income in year	Clums (Per Plant)	Total culms	Companies buy back (Per cut ft.)	Total
In 5 <sup>th</sup> year	15 culms	15X350=5250 culms	50rs per clum	5250 clumsX50/-= 2,62,500 /-
<b>Total Income: 2,62,500/-</b>				

## ➤ Technical Support & Services:

**W**e also provide technical support for farming. Our Service Department with technically qualified staff provide after sales service and farmers advisory services to our customers to get better plant establishment and faster growth of Herbal and Horticultural plantations.

We have largest network of employees who deliver Plants to customers at their door steps. Free technical services to customers on planting method, management practices and plant protection measures. Our teams of Agricultural Experts periodically visits and supervise the plantations and suggest necessary guidelines to get better growth and higher returns. Services:

1. This includes Supervision, consultancy, guidance, Transportation cost first year.
2. First production starts after 5<sup>th</sup> year.
3. Buy back agreement of Bamboo.
4. The income expenditure indicated by the company is an approximated figure, as it also depends on the nature and hard work of the farmer.

## ➤ Terms And Conditions:

1. For 1 Acre plantation the cost of Plants is Rs. 45,000/-, out of which 50% has to be paid before the cultivation and the remaining half after the planting is done.
2. The Buy Back Agreement Stamp paper of Rs.100/- has to be stamped by District Court of your area.
3. For 10 Acre or more yield the buy Back Agreement Stamp Paper will be of Rs.500/-.



***(“Look deep into nature,  
and then you will understand  
everything better”)***

# THANK YOU

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