

BAHERA



GENERAL INFORMATION

In Sanskrit Bahera is known as karshaphala, kalidruma and vibhitaki. Its fruits are mainly used for preparing various drugs. Drugs prepared from Bahera are used for treatment of swollen parts, skin diseases, premature graying of hairs, lowering of cholesterol and lowers blood pressure. It is a deciduous tree with average height of 30m. The bark is brownish grey in color. The leaves are elliptical in shape and are 10-12cm long. The fruits are ovoid in shape and the kernels are sweet in taste. Madhya Pradesh, Uttar Pradesh, Maharashtra and Punjab are major Bahera growing states in India.

CLIMATE

Temperature

30-45°C

Rainfall

900-3000mm

Sowing Temperature

30-35°C

Harvesting Temperature

15-20°C

SOIL

Because of its hardy nature it is grown in variety of soil. The soil must contain good moisture content. It gives best result when grown under moist, deep, sandy loam soil with well drainage system. It can tolerate even shade in early seedling stage.

LAND PREPARATION

For Bahera plantation, it requires well prepared land. To bring soil to fine tilth, plough the land. After ploughing, digging of pit is done before the onset of monsoon. In degraded areas pits are dug of larger size for good growth and development of plant.

SOWING

Time of sowing

The nursery beds are prepared in the month of June-July. Sowing is done in the month of July when there is onset of monsoon.

Spacing

For good growth use seedling spacing of 3m x 3m.

Method of sowing

Transplanting method is used of seedlings in main field.

SEED

Seed treatment

Soak the seeds in water for 24 hours to increase germination percentage.

NURSERY MANAGEMENT AND TRANSPLANTING

Sow Bahera seeds on digging pits 45cm x 45cm x 45cm. After sowing light irrigation is done to moist the soil. Sowing is done in the month of July when there is onset of monsoon.

Direct sowing can also be done but in the month of June-July when there is start of monsoon. Seeds are sown 2 inches deep and followed by line method.

Seedlings are ready for transplantation within 10-40days. The seedlings are mainly planted at the spacing of 3m x 3m. Water seedling beds 24hours before transplanting so that seedlings can be easily uprooted and be turgid at transplanting time.

FERTILIZER

Fertilizer Requirement (kg/acre)

UREA	SSP	MURIATE OF POTASH
100	250	100

At the time of land preparation, apply FYM (Farm Yard Manure)@10kg/hole. Apply fertilizer dose in the form of Urea @100g/hole, Super Phosphate @250g/hole and Muriate of Potash@100g/hole. Fertilizer dose is increases if required in future.

WEED CONTROL

Regular weeding should be done to keep the field weed free. If weed left uncontrolled then it will reduce the crop yield. Regular weeding is done for two years. After one month of planting, weeding should be done at the interval of one month. Mulching is also an effective way to reduce soil temperature along with weed control.

IRRIGATION

In summer i.e. in the month of March, April and May apply irrigation 3 times in one week.

PLANT PROTECTION



- **Pest and their control:**

Semi-looper caterpillar: They feed themselves on green and fresh leaves.

HARVESTING

Harvesting is done when fruits are start turning greenish-gray in color. Harvesting is mainly done in the month of November-February. After ripening the fruits are immediately harvested.

POST-HARVEST

After harvesting, drying of seeds is done. The seeds are sun dried and packed in air tight bags for transportation and to increase its self-life. From dried seeds several products like Triphala curna, Bibhitaki sura, Bhibhitaka ghrta and Triphala ghrta are made after processing.

REFERENCES

1. Punjab Agricultural University Ludhiana
2. Department of Agriculture
3. Indian Agricultural Research Institute, New Delhi
4. Indian Institute of Wheat and Barley Research
5. Ministry of Agriculture & Farmers Welfare