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Blackpepper Propagation Method

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Blackpepper is a perennial claimbing vine spices which is used from ancient times in India and world commonly known as **King of spices** The inflorscence is a spike type which contain 50 to 150 flowers warm and umid climate is prefer for its cultivation.balckpepper is important spices crop due to presence alkaloid (Pipperine) flavonoids, carotenoids, terpenoids, etc. is used as an antimicrobial, antihypertensive, anti-plasma, anti-inflammatory, and antioxidant.It is known for its pungency and flavour mostly used for seasoning of food treatment of digestion, sinus infections, neurodegenerative diseases.

Botanical Name: Piper nigrum

Family: Piperaceae

Chromosome No.: 2n=52

Origin: Western Ghat of South India

Blackpepper have five different type of shoot

- 1. Main Stem
- 2. Runner Shoots
- 3. Fruiting branches (Plagiotropes)
- 4. Topshoots (Orthotropes)
- 5. Hanging shoots (Geotropes)

Blackpepper is propagated by seeds and stem cutting but commercially propagated by stem cutting which are collected from runner shoots cuttings can also be taken from terminal shoot in the month of Feb-March.Planting material shoul be high yielding free from disease and insect resistant to problematic diseases selesct a stem cutting with 2-3 nodes then plant in polybag which are filled by organic matter irrigate frequently in may June plant ready for transplant in mainfield.

Another rapid multiplication techniques which can also be called traditional method of blackpepper propagation in this method make a trench after that fill the trench with FYM,sand, forest soil and keep the depth of the trench 45cm,width 30 cm and length as per your convenience. Split halves of bamboos with Septa with 8 to 10 cm diameter and 1, 25 to 1.50 m length are fixed for strong support then rooted cutting are planted in trench vines are irrigated frequently base of bamboo filled with coir dust and FYM for rapid growth of vines spray urea 1 kg), super phosphate (0.75 kg), Muriate of potash (0.5 kg) and Magnesium Sulphate (0.25 kg) in 250 litres of water. When the vine grow 3-4 month the terminal bud removed the vine is crushed at about three nodes above the base, in order to activate the axillary buds. After about 10 days, each plant is cut at the crushed point and taken out of the rooting medium without damaging the root system at each node.

Then single node cuttings are taken from the plants and planted in poly bags filled with potting mixture. Care was taken to keep the auxiliary bud above the soil. The poly bags were kept in a cool humid place. In about 3 weeks, the buds start developing and the poly bags were shifted to an open shaded area.

AGRI MAGAZINE ISSN: 3048-8656 Page 18

Conclusion

Benefits of this method are:

- Multiplication is rapid
- To get healthy seedling
- A better field establishment and more vigorous growth as a result of better root system.

AGRI MAGAZINE ISSN: 3048-8656 Page 19