

# Hi-tech Production System for Quality Disease-free Seed Rhizomes of Ginger and Turmeric



# Origin

- During the Review Meeting of AAP 2014-15 of NHM programmes on 24 March 2014 at Krishi Bhavan, New Delhi.
- The JS(NHM) stressed the need for enhanced production of turmeric and ginger planting material.
- In the meeting it was decided that a Committee chaired by Horticulture Commissioner would deliberate on future road map for ginger/turmeric production in consultation with DASD, IISR Calicut and Spices Board.

# Accordingly Directorate organised...

**National Consultative Meet on Planting Material Production of Ginger & Turmeric on 25 August 2014 at Calicut under the Chairmanship of Hort. Commissioner**

Representatives from 11 Ginger/Turmeric growing States, IISR, Spices Board

## **Observations**

- No specific programmes are being undertaken by the State Depts for production of quality planting materials of ginger & turmeric
- Farmers are growing mainly local varieties and not improved HYV with high oil/curcumin content, released by SAUs/ICAR Institutes
- Use of Low quality planting materials increase the incidence of diseases especially in Ginger

# Tentative requirement of Planting Material of Ginger & Turmeric

- Ginger : 2 lakh tonnes annually
- Turmeric: 4.75 lakh tonnes annually
- Based on 25 % SRR, about 50,000 tonnes of Ginger and 1 lakh tonnes of turmeric seed rhizomes need to be replaced
- SAUs and ICAR institutes produce only 1% of the requirement.
- Farmers meet their requirement locally, through farmer to farmer exchange.

# Major Recommendations of the Consultative Meeting

- Need to establish seed chain in Ginger & Turmeric
- Micro-rhizome techniques (tissue culture techniques) are to be utilised for production of disease-free planting materials
- Use of soil-less multiplication of Ginger under protected cultivation
- Use of pro-tray method for production of disease free planting materials
- Establish network of seed production centres

**Microtubers production in the  
TC lab by Universities**

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graph TD; A[Microtubers production in the TC lab by Universities] --> B[Multiplication under protected cultivation using soil-less medium by the Universities]; B --> C[Multiplication of seed rhizomes under Poly houses at FPOs/ NGOs levles]; C --> D[Multiplication of seed rhizomes under field condition using Protray method by NGOs/Farmer Groups / Individual farmers]; D --> E[Storage under proper condition]; E --> F[Raising nursery and distribution of seed rhizomes to farmers for planting in main field];
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