



# Brainstorming on

# "Litchi Research and Development: Navigating Challenges and Future Goals"



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Litchi is an evergreen subtropical fruit tree popular as table fruit among consumers for its attractive colour, and the translucent, flavoured aril. In India, litchi is cultivated in about 0.95 lakh ha with a production of 7.27 lakh tonnes. This fruit not only delights our taste buds but also contributes significantly to our economy and livelihood of farmers. However, it faces multifaceted challenges that demand our collective attention. Adverse weather conditions in recent times particularly temperature fluctuations impacted litchi flowering, fruit setting, and overall productivity. Sunburn, fruit cracking, and reduction in fruit size are consequences of extreme weather events. Inconsistent crop management practices affect yield and quality. Many orchards lack proper care throughout the year because of 'Contractor-Driven Orchards.' Orchards managed by contractors often prioritize short-term gains over sustainable practices. We need to shift focus from fruiting stages to year-round crop husbandry. Emerging pests and diseases threaten litchi orchards hence effective strategies for pest control and disease prevention are essential. Litchi is highly perishable, requiring efficient post-harvest handling. Short shelf life poses challenges for storage, transportation, and marketing. Our goal for the Brainstorming session is to collaboratively explore innovative solutions and chart a roadmap for litchi research and development. Our collective efforts during this session aim at :

**1. Problem Prioritization.** (• Discuss and analyse the existing challenges faced by the litchi growers, including climate-related issues, pest and disease management, and post-harvest losses • Prioritize these challenges based on their impact and urgency)

**2. Innovative Solutions** (• Explore cutting-edge research areas, including genetic enhancement, sustainable production, and pest management)

**3. Collaboration and Networking** (• Foster collaboration among researchers, farmers, and industry stakeholders • Create a network for knowledge exchange and joint initiatives)

**4. Action Plans** (• Develop actionable strategies to address identified challenges • Set short-term and long-term goals for litchi research and development)

**5. Awareness and Advocacy** (• Raise awareness about sustainable practices among litchi growers • Advocate for improved crop management and post-harvest practices)

**6. Commitment to Implementation** (• Encourage commitment from all participants to implement proposed solutions • Establish follow-up mechanisms to track progress)

Together, let us navigate the challenges and shape a resilient future for litchi research and development.

## Eminent Panellists

## Organizing Committee

Dr. T. Damodaran, Director, ICAR-CISH, Lucknow  
Dr. Anup Das, Director, ICAR-RCER, Patna  
Dr. Krishna Gopal Mandal, Director, ICAR-MGIFRI, Motihari  
Dr. Abhijit Kar, Director, ICAR-NISA Ranchi  
Dr. Anjani Kumar, Director, ICAR-ATARI, Patna  
Dr. Bikash Das, Director, ICAR-NRCL, Muzaffarpur  
Dr. H.S. Singh, Pr. Scientist, ICAR-CISH Lucknow  
Dr. Abha Singh, Pr. Scientist, ICAR-CISH Lucknow  
Dr. Vinod Kumar, Pr. Scientist, ICAR-NRCL, Muzaffarpur  
Dr. J.S. Choudhary, Sr. Scientist, ICAR-RCER RC, Ranchi  
Dr. Abhay Kumar, Sr. Scientist, ICAR-NRCL, Muzaffarpur  
Dr. Alemwati Pongener, Scientist, ICAR-IARI, Assam  
Dr. Prabhat Kumar, Scientist, ICAR-NRCL, Muzaffarpur  
Dr. Bhagya Vijayan, Scientist, ICAR-NRCL, Muzaffarpur  
Dr. Sunil Kumar, Scientist, ICAR-NRCL, Muzaffarpur  
Er. Ankit Kumar, Scientist, ICAR-NRCL, Muzaffarpur  
Dr. Ipsita Samal, Scientist, ICAR-NRCL, Muzaffarpur

### Chairman

Dr. Bikash Das, Director, NRCL

### Organizing Secretary

Dr. Vinod Kumar, Pr. Scientist (Plant Path.)

### Co-Organizing Secretary

Dr. Abhay Kumar, Sr. Scientist (Ag. Biotech)

Dr. Prabhat Kumar, Scientist (Soil Science)

### Conveners

Dr. Bhagya Vijayan, Scientist (Ag. Ext.)

Dr. Sunil Kumar, Scientist (Hort.)

Er. Ankit Kumar, Scientist (Ag. Str. & Process Eng.)

Dr. Ipsita Samal, Scientist (Ag. Entomology)



Dr. S.K. Singh, Honourable DDG (Horticultural Science), and  
Dr. V.B. Patel, ADG (Fruit & Plantation Crops), will grace the occasion

## Who can Participate

Researchers, Academicians and Stakeholders with interest in research and development in litchi

For more information contact:

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