

## **ENTREPRENEURSHIP DEVELOPMENT TRAINING PROGRAMME ON LITCHI BASED BEVERAGE UNIT**

### **Introduction:**

Litchi, a non-climacteric fruit, is one of the most delicious summer fruits liked for its attractive red colour, refreshing taste, juicy and aromatic pulp. Despite its wide popularity and demand, transporting the fruit to distant markets has remained a challenge due to its highly perishable nature. Pericarp browning and pathological decay are major postharvest problems accounting for 25-50 percent loss of total produce. These quantitative and qualitative losses in litchi fruits, from the time of harvest to consumption, not only reduce the availability of fruits but also increase per-unit cost of transport and marketing. Postharvest interventions, therefore, become indispensable to preserve litchi fruit for longer duration. One among such interventions is processing and value addition in litchi. Preservation and processing of litchi into different products can help growers and entrepreneurs overcome glut and distress sale situation, because the processed products have long shelf life that allows for planned and organized distribution according to market demand. Processing and value addition can lead to generation of employment and addresses to achieve the Govt of India's aim to double farmers' income by 2022.

### **Objectives**

1. To impart knowledge about general preservation and value addition in fruit.
2. Skill development towards litchi based beverage industries
3. To provide common platform for participants to discuss their problems in litchi processing.
4. Exposure visit to various processing unit in and around Muzaffarpur.

### **FACILITIES AVAILABLE AT ICAR-NRCL**

- The Centre has well-equipped laboratories for Plant tissue analysis, soil analysis, plant physiology, Plant Protection and microbiology, and Central Instrumentation Lab.
- The Centre has a modern postharvest handling and processing laboratory, as well as processing workshop.
- The Centre has modern nursery with number of green houses and propagation structures.
- The centre's library has a good collection of literature in the field of litchi cultivation and other related fields including Hindi literature in horticulture and allied areas.
- The Centre has an Agriculture Knowledge Management Unit (AKMU) to manage the knowledge database with software of international repute such as SAS, CAB abstracts, horticultural abstract and other computing software's. The facility of LAN and server is being installed. Currently, it has NKN facility from Rail Tel. The centre has its website with url <http://nrclitchi.org>.

### **SALIENT COURSE CONTENTS**

**The course content will broadly cover the following topics in reference to litchi based processing unit**

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|--|---|
| • Selection of cultivars and judging correct harvest maturity  | • Postharvest diseases and spoilage management  |
| • Sorting, grading and washing techniques for quality products | • Preparation and preservation of litchi pulp   |
| • Principles and methods of fruit preservation                 | • Preparation and preservation of litchi squash |
|  | • Preparation and preservation of litchi RTS    |
|  | • FSSAI rules, registration and licensing       |
|  | • Govt. policies and assistance                 |

### **VENUE & DURATION**

The Entrepreneurship Development Training Course will be organized at ICAR-NRCL, Muzaffarpur. The duration of the training will be for a period of 6 days from **22-27 Oct., 2018 and 17-22 Dec., 2018**.

## WHO CAN PARTICIPATE?

Any interested person/ litchi grower/ trader/ processor/entrepreneur who has passed 10<sup>th</sup> standard (9Matriculation) can apply for this training programme. No TA/DA will be given to the trainees.

## HOW TO APPLY?

Applications in the prescribed format should be sent to the Course Director. Forms are also available on the Institute's website ([www.nrclitchi.org](http://www.nrclitchi.org)). Advance copy may be sent by email to Course Director for early registration. The last date for receiving nominations is **10<sup>th</sup> October, 2018 and 5<sup>th</sup> Dec., 2018**, respectively.

## SELECTION AND CONFIRMATION OF PARTICIPANTS

The total number of participants will be 20 per batch. A list of candidates will be prepared as per the criteria developed for the course and will be displayed in the ICAR-NRCL website and intimation will be sent to the selected participants.

## TRAVEL, BOARDING AND LODGING

Boarding, lodging, and travel expenses will be borne by trainees. The participants can avail the accommodation facility at ICAR-NRCL guest house located in the campus of ICAR-National Research Centre on Litchi, Muzaffarpur/and or nearby available facilities on payment basis.

## HOW TO REACH ICAR-NRCL, MUSHAHARI, MUZAFFARPUR

ICAR-NRCL is located at Musahari, on Muzaffarpur-Pusa Road which it is about eight km from Muzaffarpur railway station. The nearest airport is located in Patna at a distance of 85 km. The centre is located on the bank of river Gandak about 35 km from historic place Vaishali. The climate during October is pleasant with average day temperature of 32±2°C, and cold during December.

## IMPORTANT DATES (Two training programmes)

Last date for receipt of nomination and fee	: 10 <sup>th</sup> October, 2018 and 5 <sup>th</sup> of Dec., 2018
Intimation of selection	: 15 <sup>th</sup> Oct., 2018 and 10 <sup>th</sup> Dec., 2018
Last date of confirmation from participants	: 20 <sup>th</sup> Oct., 2018 and 15 <sup>th</sup> Dec., 2018

## TRAINING/COURSE FEE

Rs. 7500 (Rupees seven thousand five hundred only) per training of 6 days. This includes licence fee of NRC on Litchi, Muzaffarpur. It should be deposited latest by 10<sup>th</sup> Oct., and 5<sup>th</sup> Dec., 2018.

The course fee/ registration can be paid through Demand Draft (DD) in favour of *ICAR UNIT NRC ON LITCHI*, A/c No, **30043154027**, SBI, Mushari, Muzaffarpur, Bihar. IFSC code SBIN00014283. The fee can also be transfer through net banking using NEFT/RTGS.

## PATRON

### Dr. Vishal Nath

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## COURSE DIRECTOR

### Dr. S.K. Purbey

Pr. Scientist (Hort.)  
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## COURSE COORDINATORS

### Dr. Alemwati Pongener

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### Dr. Vinod Kumar

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**APPLICATION FORM FOR PARTICIPATION IN ENTREPRENEURSHIP  
DEVELOPMENT TRAINING PROGRAMME**

(To be sent directly to the Course Director)

1. Full Name (in Block Letters) : .....
2. Designation : .....
3. Name of firm, if any : .....
4. Address to which reply should be sent  
(in Block letters) : .....
- E-mail ID : .....
- Phone/Fax/ Mob : .....
5. Permanent Address : .....
6. Date of Birth : .....

7. Sex : Male  Female
8. Marital Status : Married  Unmarried

9. Current source of income: .....
10. List of ongoing work: .....



11. Existing facilities: .....

12. Last 3 years budget plan for technology deployment: .....

13. Academic Records :

<b>Examination Passed</b>	<b>Subjects Main/Subsidiary</b>	<b>University or Institute</b>	<b>Year of Passing</b>	<b>Class, Ranks, Distinction etc.</b>
Matriculation/ 10th				
Intermediate/ 12th				
Bachelor degree				
Others				

14. Professional Experience.....  
(Last 3 years)

Date:

Place:

Signature of the applicant

- A separated sheet can be attached if space provided is not sufficient.