

Travelling Allowance

All the outstation participants would be paid travel fare to and fro journey as per their entitlement restricted to AC II tier rail/bus fare or any other means of transport by the shortest route. Travel by air is not permissible. Participants are requested to produce a photocopy of the train/bus ticket.

Boarding and Lodging

Participants will be provided rent-free accommodation in the Guest House of IISR, wholesome meals and refreshments as per the normal rules of the training course. The participants are requested not to bring their family/accompanying persons with them. Local participants will be provided lunch and intersession tea only. Outstation participants are requested to reach one day prior to the first day of training programme and are requested to plan their departure on the last day of Short Course after 18:00 hrs.

How to reach IISR

The institute is located near the Base Hospital, Lucknow Cantonment about 6 km from Lucknow Railway Station on Raebareli road (on the way to Sanjay Gandhi Post Graduate Institute of Medical Sciences; SGPGI). Pre-paid three-wheeler autos/taxis can be availed to reach the IISR campus.

Important Dates

Last date for receiving application : **November 25, 2017***

Intimation of selection : **November 30, 2017***

Commencement of the Short Course : **December 06, 2017**

Contact Persons

***Revised dates**

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Application dates revised

Short Course

on

**Processing, handling, value addition and storage
of nutritive sweetener from sugarcane**

December 06-15, 2017

Course Director: Dr S.I. Anwar

Course Coordinators

Dr R.D. Singh

Dr Dilip Kumar



Sponsored by

Indian Council of Agricultural Research, New Delhi

ICAR-Indian Institute of Sugarcane Research

Raebareli Road, P.O. Dilkusha, Lucknow-226 002 U.P.

www.iisr.nic.in



Background

Sugarcane produced in India is mainly utilized for making sweeteners like sugar, jaggery and *khandsari*. Jaggery and *khandsari* industry is one of the oldest and most important rural based cottage industries of India. Prior to 1902, almost all sugarcane produced in India was being processed for manufacturing jaggery and *khandsari*. Due to the pressure of industrialization, utilization of sugarcane for jaggery making has reduced significantly. However, liking for jaggery due to its nutritional and medicinal value and taste has not waned as it meets requirement of ethnic food needed by the masses. Despite the tremendous scope for jaggery industry, this has always remained in the background with problem of low recovery, poor hygiene, shelf life and aesthetics. Further, the production of jaggery at national level has declined sharply in the recent past. To reduce the gap between demand and supply of sweeteners and also to meet the requirements of food security, there is a need to reduce post-harvest losses, improve process and machine efficiency and thus increase the productivity. Jaggery based value-added products like *reori*, *gajak*, *chikki*, *patti* etc. are very popular throughout the country. Liquid jaggery is part of daily life in most part of Maharashtra and is gaining commercial importance. *Rab* and powder/granular jaggery are also popular particularly in rural masses. These value-added forms of jaggery with suitable modifications are the potential source of export.

In view of the gradual erosion of this industry from rural area, there is an urgency to address various problems associated with this important rural based cottage industry in India. This Short Course would be an effort to update about the research and development work going on in jaggery right from sugarcane crushing to final product, its value addition, packaging and storage.

About the Institute

The ICAR-Indian Institute of Sugarcane Research (IISR), Lucknow was established in 1952 by the erstwhile Indian Central Sugarcane Committee for conducting research on fundamental and applied aspects of sugarcane as well as to coordinate the research work on this crop in different states of the country. The Government of India took over the Institute on Jan. 1, 1954, and on April 1, 1969, it was transferred to the Indian Council of Agricultural Research (ICAR), New Delhi. Presently, IISR, Lucknow conducts research on fundamental and applied aspects of sugarcane like developing high sugar breeding stocks and varieties, especially for sub-tropical region, development of farm implements for mechanization of sugarcane cultivation, production/protection techniques and jaggery production. It has linkages with SAUs, Research Centres and other organizations for collaborative research and exchange of information. It also provides training/consultancy/advisory services to farmers and industries.

About the Short Course

There will be series of lectures and hands-on practical on various aspects of sugarcane processing for nutritive sweetener from sugarcane, its value addition, packaging and storage. The participants will also gain some insight in to other aspects like improved sugarcane varieties, production practices, protection strategies, mechanization, etc. The well-equipped laboratories in the institute will serve as the venue for 10 days journey in to the world of sugarcane.

Faculty

The experienced scientific staff of IISR will form the major part of the faculty for the Short Course. Guest speakers from other ICAR/CSIR institutes in Lucknow will also be invited for discourse on their areas of expertise.

Eligibility

The Short Course is open for participants from ICAR Institutes/State Agricultural Universities/Central Agricultural Universities/Agricultural faculties of AMU, BHU, Vishwa Bharti and Nagaland University/Krishi Vigyan Kendras. The participants should have Master's Degree in Agriculture and allied disciplines with working knowledge of computers. They should be employed not below the rank of Assistant Professor or equivalent rank in the concerned subject. Participants will be selected on the basis of their ability to benefit from the programme. The number of participants in the Short Course will be limited to 25.

How to apply

The interested candidates should apply online using CBP vortal through <http://proj.iasri.res.in/cbp> or under the link Capacity Building Program at ICAR website (<http://www.icar.org.in>). Steps for submission of online application form are as follows:

- To create User Id use "**Create New Account**" link on home page. Login using your User Id & Password. If you have forgotten your password click on "**Forgot password**" link.
- After login, choose this training under Short Course category, and click on "**Participate in Training**" link and fill the proforma. After filling the online application, fill 'Draft/Postal' order details and take a printout of application and get it approved by the competent authority of the organization. Upload the scanned copy of the application through CBP vortal. In addition, send the hard copy to The Course Director of the Short Course.
- Advance copy of application can be sent by E-mail to Course Director.
- The selected candidates will be informed by e-mail/CBP vortal well in advance. Once the candidates are intimated about their selection for Short Course, they need to confirm their acceptance.