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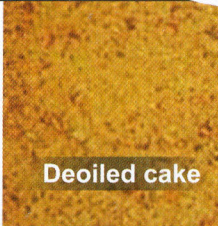
Linter



Hull



Oil



Deoiled cake



Kernel

# Training on Value Addition to Cottonseed



Cottonseed

05-08 June, 2017

**Organized by**

ICAR - Central Institute for Research on Cotton Technology (ICAR-CIRCOT)  
D.A.R.E., Ministry of Agriculture & Farmers Welfare, Govt. of India

Adenwala Road, Matunga, Mumbai- 400019 (MS) INDIA



## Introduction

The ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT), one of the premier constituent institutes of the Indian Council of Agricultural Research (ICAR), was established in the year 1924. The Institute is conducting research and development on all aspects of post-harvest technology of cotton and value addition to cotton by-produce with following mandate:

- Basic and strategic research on processing cotton and its ago-residues, development of value added products and quality assessment
- Skill development and business incubation services and function as referral laboratory for cotton fibres.

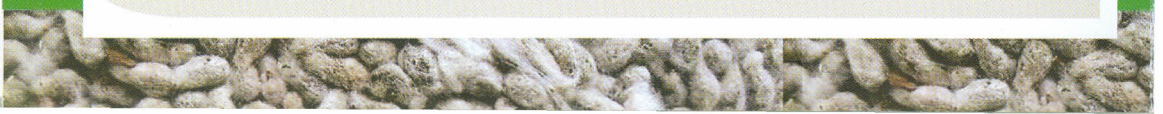
The Institute has been conducting skill development programmes to propagate, encourage and guide entrepreneurs to successfully adopt and market commercially viable technologies and to equip people with best practices in cotton ginning, quality evaluation of cotton fibres and value addition to by-products.

## About the training programme

Cotton is a major cash crop and India is leading producer in the world today. It is estimated that about 35.1 million bales (170 kg each) of cotton would be produced during 2016-17. The cottonseed available for processing during this year is estimated to be around 11.7 million tonnes. Cottonseed contains good quality oil and protein and is therefore a valuable resource but has not received the due attention so far, as fibre is given. Most of the cottonseed obtained after ginning in our country is directly crushed to get crude oil which is used for edible purposes after refining and the residual cottonseed cake is used for ruminant feed. However, only 10-12% oil is recovered in the process and the remaining about 7-8% oil is left in the cottonseed cake. Besides, valuable by-products like linters and hulls are lost and the cake obtained has lower protein content, gossypol and high content of fibres, which restricts its use for poultry and fish feed applications. Scientific cottonseed processing on the other hand results in almost complete recovery of oil and valuable products such as linters, hulls and de-oiled high protein cottonseed meal and thus full value of cottonseed is realized. The products thus obtained can be further value added to get higher economic benefit. This training programme aims to create awareness among the participants about the benefits of scientific processing of cottonseed and various technologies developed at CIRCOT for value addition to cottonseed.

## Objectives

- To impart knowledge about scientific processing of cottonseed and its benefits
- To teach the technologies for value addition to cottonseed
- To impart skill on various analytical methods for analysis of cottonseed





## Course Content

- Scientific processing and value addition to cottonseed
- Prospects of cottonseed oil
- Value addition to cottonseed by fermentation technology
- Diversified uses of cotton linters
- Value added products from linters- nanocellulose, pulp and paper
- Utilization of cottonseed for feed and food purposes
- Demonstrations and hands on training on cottonseed and meal analysis

## Facilities Available

- Soxhlet extractor
- Pressurised solvent extractor
- Automatic nitrogen analyser
- Automatic fibre analyser
- Gas chromatograph
- UV-Visible spectrophotometer
- Fermenter
- Pulp and paper making and testing instruments
- Fluorescence microscope
- Nanocellulose pilot plant

### Value Added Products:



Fish & Poultry Feed



Cottonseed Cake



Peptone

## Date and venue

05-08 June, 2017 at ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT), Adenwala Road, Matunga (East), Near Five Gardens, Mumbai

## Accommodation

Guest house accommodation at ICAR-CIRCOT is limited and shall be provided at standard rate on first-cum-fist-serve basis in sharing basis (A/c) accommodation.

## Fees

The programme fee is Rs. 15,000 + service tax (as applicable) per person. The charges include course fee, course material, breakfast and working lunch. The fee does not include travel, lodging and conveyance and other personal expense. There is 50% concession for students, academicians and participants from NARS.

## How to Apply

The interested participants may send their application in the prescribed format which is available on the website [www.circot.res.in](http://www.circot.res.in). The fee in the form of DD drawn/ at par Cheque in favour of “**Director, CIRCOT**” payable at Mumbai, may be sent to the below mentioned address so as to reach us on or before **May 29<sup>th</sup>, 2017**. The bank account detail for NEFT transfer is given below; The bank account detail for NEFT transfer is given below;

Account Name	Director, ICAR-CIRCOT
Bank Name	State Bank of India, Commercial Branch, Dadar East, Mumbai – 400014
Account No.	10001710244
IFSC Code	SBIN0004114

## How to Reach ICAR-CIRCOT

From Airport (Domestic)	:10 km
From Airport (International)	:12 km
Nearest Railway Station	:Dadar (1.7 km)
Nearby Bus Stops	:Kapol Nivas on Dr. B.R. Ambedkar Road Matunga (E), and Five Gardens Bus Stop
Landmark	:Five Gardens, Matunga

## Organizers

Course Director	:Dr. P. G. Patil, Director, ICAR-CIRCOT
Course Coordinator	:Dr. Sujata Saxena, Principal Scientist, Head, CBPD
Course Co-Coordinator	:Dr. Virendra Prasad, Sr. Scientist, CBPD, :Dr. R. D. Nagarkar, ACTO, CBPD

## Address for correspondence

### Dr. Sujata Saxena

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