



TRAINING ON VALUE ADDITION TO COTTONSEED



ISO 9001:2015

Under the Scheme for Young Scientist and Technologist
Project "Valorization of Cottonseed Meal: Extraction of Quality Protein for
improving the Livelihood of Cotton Farmers" (Project code: SP/YO/476/2018)
funded by Science for Equity, Empowerment and Development (SEED) Division,
Department of Science and Technology, New Delhi

Organizers

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Scheme for Young Scientists and Technologists (SYST)

26-28 March, 2021

Organized by

भा.कृ.अनु.प. - केंद्रीय कपास प्रौद्योगिकी अनुसंधान संस्थान
ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT) D.A.R.E.,
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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 processing of cotton and value addition to cotton by-produce.

About the training programme

Cotton is a major cash crop and India is leading producer in the world today. About 35.1 million bales (170 kg each) of cotton was produced during 2016-17. The cottonseed available for processing during the year was around 11.8 million tonnes and it is estimated more 12 million tonnes in 2021. Cottonseed contains good quality oil and protein and is therefore a valuable resource but has not received the due attention so far. 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 including extraction of protein from cottonseed developed at CIRCOT for value addition to cottonseed.

Course Content

- An overview of cotton crop value addition (26.03.21)
- Methods of protein extraction (27.03.21)
- Extraction of protein from cottonseed (28.03.21)

Date, Time and Venue

Date: 26.03.2021 to 28.03.2021 Time: 4 pm onwards

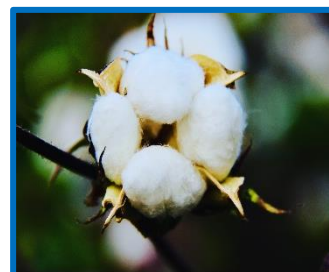
Venue: Virtual mode: Zoom platform

<https://us05web.zoom.us/j/84987505388?pwd=NkxVZ3dXdDVXaHVtSGJDbmlpUzlkZz09>

Meeting ID: 849 8750 5388 Passcode: N01kh6

Fees

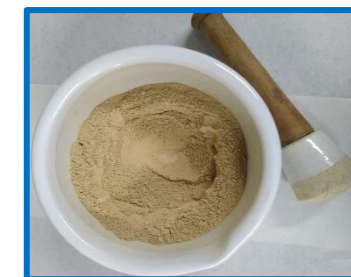
The training programme is free of cost.



Cotton



Cottonseed



Cottonseed protein