



# Training on Double Roller Ginning Technology & Basics of Cotton Grading



ISO-9001:2008



**Organized by**

**Ginning Training Centre**

**ICAR - Central Institute for Research on Cotton Technology (ICAR-CIRCOT)  
D.A.R.E., Ministry of Agriculture & Farmers Welfare, Govt. of India  
Amravati Road, Wadi (P.O.), Nagpur 440023 (MS) INDIA**



## About the Ginning Training Centre

Ginning Training Centre (GTC) was established at Nagpur in 1985 by Central Institute for Research on Cotton Technology (CIRCOT) under the Integrated Cotton Development Project (ICDP) with World Bank assistance to create the most crucial trained manpower for the ginning industry. The GTC is equipped with all the latest ginning machines and allied infrastructural facilities i.e. latest double roller(DR) gins, fully automatic material handling systems, different types of cleaning machines, a most modern baling press, etc. Apart from an indigenous saw ginning system, the GTC also possesses a Rotary Knife Gin. In addition to cotton processing facilities, the Centre is also equipped with a scientific cottonseed processing plant and a particle board preparation plant from cotton stalks (project partly funded by Common Fund for Commodities, Netherlands). The centre is also equipped with pilot plant facility for preparation of pellets from cotton stalk and agriculture residue.

GTC conducts tailor-made training programmes for cotton classers, gin managers, supervisors, technicians, operators, machinery manufacturers. Well trained Scientists and Technical Officers of the Institute are involved in teaching and training activities. The curriculum has been enriched by expert lecturers and study tours to gin machinery manufacturers, modern, cotton ginnery, Central Institute for cotton Research, Nagpur.

## About the training programme

Gin setting and maintenance are crucial for getting the optimum productivity, reduction in downtime and contamination free lint production. Gin setting and maintenance is an art which can be learned and perfected through theoretical and practical training imparted by reputed institute like CIRCOT.

Moreover, the sudden upsurge in growth and modernization of ginning industry has created a high demand for skilled manpower leading to shortage of well trained technicians and machine operators in the industry.

The GTC with its appropriate infrastructure imparts hands on instruction in harvesting, cotton quality evaluation, grading, ginning, and baling, testing, marketing etc.

## Objectives

- To train the participants on different aspects of cotton ginning, like, pre & post cleaning, material handling, ginning and bale packaging
- To transfer the know how about quality evaluation & cotton fibre including manual and instrumental methods

## Course content

- Introduction: Ginning scenario in India and abroad, a brief outline of the main stages in cotton harvesting, classing and processing.
- Cotton Production and Marketing: Background information of development of different varieties, fibre growth, grading and marketing.



- **Material Handling Equipments and Structures:** Storage of seed cotton, handling of seed cotton, design and construction and working principles of different conveying systems.
- **Pre & Post Cleaning:** Importance of Pre & Post Cleaning, working principle and classification of Pre & Post Cleaners.
- **Ginning:** Ginning percentage, types of gin machines, comparison of DR, Saw and Rotary Knife Gins, Maintenance schedules and setting of gin machines and effect of gin settings on fibre parameters.
- **Bale Packaging Machinery:** Operation of lint condenser, bale press classification, working of press machine, packaging materials, etc.
- **Fibre Quality Evaluation:** Theoretical background, sampling for testing, measurement of length, fineness, maturity and strength, fibre quality index, brief account of fibre quality using HVI and LVI.
- **Gin Management:** Brief account of the best management practice for optimal operation of a modern ginnery and management of different ginning operations using the gin management software.
- **Hand-on experience** for preparation of staples.
- **Industry Visit:** Visit to the Ginning Machinery Manufacturers, Visit to Ginning Factory & Spinning Mills.
- **Cotton by-products:** Logistics for supply of cotton stalk, preparation of briquettes, pellets, particle boards, from agro residues.

## Tentative schedule and Venue

- **April 17-22, 2017**
- **May 22-27, 2017**
- **June 19-24, 2017**
- **July 10-15, 2017**
- **August 07-12, 2017**
- **September 18-23, 2017**

- **October 09-14, 2017**
- **November 13-18, 2017**
- **December 18-23, 2017**
- **January 15-20, 2018**
- **February 12-17, 2018**

At GTC Nagpur, ICAR- Central Institute for Research on Cotton Technology , Amravati Road, Wadi (P.O.), Nagpur 440023, Maharashtra, India.

## Accommodation

Guest house accommodation at ICAR-CIRCOT is limited and shall be provided at standard rate on first-come-first-served basis for 10 participants on sharing basis.

## Fees

The programme fee is Rs. 10,000 + 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.

## How to Apply

The interested participants may send their applications in the prescribed format 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 "**Officer In-charge, GTC, Nagpur**" payable at Mumbai, may be sent to the below mentioned address. The Bank account details for NEFT transfer is given below.

Account Name	Officer In-charge, GTC, Nagpur
Bank Name	State Bank of India, Ravinagar, Nagpur
Account No.	10199461255
IFSC Code	SBIN0007504

## How to Reach GTC CIRCOT

From Airport (International) : 15km  
Nearest Railway Station : Nagpur (7km)  
Nearest Bus Stop : Amravati Road, Near Wadi (P.O.)  
Landmark : Maruti Seva Showroom

## Organizers

**Course Director** : **Dr. P. G. Patil, Director, ICAR-CIRCOT**  
**Course Coordinator** : **Dr. S.K. Shukla, Senior Scientist, Officer I/C, GTC of ICAR- CIRCOT, Nagpur**  
: **Ms. Varsha Satankar, Scientist, GTC, Nagpur**

## Address for Correspondence

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*Designed by: Mrs. Laxmi Manoj Singh UP- II, JJD*