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## *From Director's Desk...*

India is the leading producer of Cotton in the World, accounting for around one-third of the world area under cotton cultivation, with an estimated output of 351 lakh bales (2016-17).

The productivity of the crop is much below the world average and the average cost of cultivation (Cost C2) as calculated by Commission on Cost and Prices are as high as Rs.3902 per quintal for the period 2016-17. With the Governments initiative to double the farmer's income by 2022, it becomes imperative that we have to improve the income of the farmers on one-hand and reduce the cost of cultivation on the other.

Mechanization of cotton cultivation is one of the avenue that needs immediate attention to bring down the cost of cultivation in cotton farming. The decade long experience shows that mechanization of cotton harvesting needs, variety with appropriate physiology, uniform boll opening and proper defoliation to get less trashy cotton. ICAR-CIRCOT has been working in the area of developing the pre-cleaning systems for the mechanically harvested cotton to minimize the trash content and enable efficient ginning. The current level of mechanized harvesting is resulting in trash levels as high as 15-30 per cent.

It is the right time that all the stakeholders from public and private sector come together and work in unison to come up with a strategy for mechanization of cotton cultivation and harvesting, so as to reduce the cost of cultivation at farmers' field and also enables efficient processing. In this regard ICAR-CIRCOT has arranged for a workshop on "Mechanization of Cotton Cultivation, Harvesting and Ginning: Challenges, Opportunities and Way Forward" on 5<sup>th</sup> May, 2017 to create a common platform for all stakeholders to work together to address the Issue.

**Dr. P. G. Patil**  
Director

## Special News

### Workshop on Mechanization of Cotton Cultivation, Harvesting and Ginning: *Challenges, Opportunities and Way Forward*

The Workshop was held on May 5, 2017 at ICAR-CIRCOT, Mumbai. Dr. K. Alagusundaram, Deputy Director General (Agricultural Engineering), ICAR, New Delhi, was Chief Guest of the workshop, which aimed to bring all the stakeholders in public and private sector to a common platform for addressing the issue of national importance “Mechanization of Cotton Cultivation, Harvesting and Ginning”. He urged the stakeholders to provide complete solution for mechanisation in cotton covering sowing, intercultural operations, harvesting, along with the extension services so that farmers can adopt it. The deliberation were focussed on overcoming the challenges faced in the mechanization process viz., developing varieties amenable for cotton harvesting, development of suitable defoliant & growth regulators, adoption of technology for cleaning of mechanically harvested cotton and acceptance in the market for mechanically harvested cotton. He opined that the potential technologies developed by the private sector should be tested at large scale through multi-location trials under AICRP.

Dr. P. G. Patil, Director, ICAR-CIRCOT presided over the workshop. He stressed on the need for formulation of mission mode programme encompassing all stakeholders in public and private sector for successful implementation of mechanisation in cotton that will benefit the farmer by way of reducing the production cost.

Dr. K. K. Singh, Director ICAR-CIAE, Bhopal, Shri. Chokalingam, Chairman-cum Managing Director of Cotton Corporation of India, Sh. Suresh Kotak, Kotak Group, Dr. M. K. Sharma, Whole-Time Director, M/s. Bajaj Steel Industries, Dr. A. J. Shaikh, Former Director ICAR-CIRCOT, Dr. G. R. Anap, International Ginning Consultant were among the distinguished invitees for the workshop.

The delegates, researchers, policy makers from public and private including ICAR-CICR, ICAR-CIAE, Cotton Corporation of India, Office of Textile Commissioner, Cotton Association of India, Bayer Crop Science, Ankur Seed, Nuziveedu Seed, John Deere, Case-New Holland, Bajaj Steel Industry, Jadhao Gears, Carver Technology, Lummus Corporation, Arvind Cotton, Tirth Agro.

Technology, GIMA Tex, All India Cotton Seed Crushers Association, Indian Society for Cotton Improvement, Traders, Ginners, and Spinners participated and put forth their ideas for successful implementation of mechanisation in different spheres on cotton value chain. On this occasion 15 leaflets of skill development programme to be conducted during 2017-18 in the institute in different areas of post-harvest processing of cotton were also released. The workshop was co-ordinated by Er. V. G. Arude, Scientist & Head (I/c) MPD, CIRCOT as Organising Secretary.



Dr. K. Alagusundaram, D.D.G. (Agricultural Engineering), ICAR, New Delhi, addressing the stakeholders





## Special News



Deliberation on “Mechanization of Cotton Cultivation, Harvesting and Ginning: Challenges, Opportunities and Way Forward” with the stakeholders

### ABI Review Meeting

The 1<sup>st</sup> Advisory Committee Meeting of ICAR-CIRCOT Agri Business Incubation (ABI) Centre was held on April 22, 2017 at ICAR-CIRCOT, Mumbai. The meeting was chaired by Dr. P. G. Patil, Director, ICAR-CIRCOT, Mumbai. The advisory committee members include Dr. R. P. Kachru, Former ADG (PE), ICAR, New Delhi; Dr. S. Sreenivasan, Former Director, ICAR-CIRCOT, Mumba, Dr. M. K. Sharma, Whole time Director & CEO, M/s. Bajaj Steel Industries Limited, Nagpur and Dr. A. J. Shaikh, Former Director, ICAR-CIRCOT, Mumbai (invitee). The HoD's, Co-PI's of ABI, Technology mentors of incubates and Ms. Yashni Kothari (M/s. Greyy, Navi Mumbai), an Incubatee were present in this meeting.

Er. A. K. Bharimalla, PI, ICAR-CIRCOT-ABI Centre presented in brief about the objectives, achievements and the targets for next three years (2017-2020). Dr. R. P. Kachru appreciated the young incubatee of CIRCOT-ABI, Ms. Yashni Kothari, Partner, M/s. GREYY, Navi Mumbai, for sharing her experience about their startup, product development, product canvassing and mentoring support received from innovators of the institute. The discussions were also held on the sustainability of ICAR-CIRCOT-ABI Centre after 2020.



Members of advisory committee meeting in discussion on April 22, 2017





## Special News

### Ethiopian Delegation Visited ICAR-CIRCOT

Dr. P.G. Patil, Director, ICAR-CIRCOT, Mumbai held a meeting with the Ethiopian delegation on study visit to learn from India's experience on development of Modern Cotton Marketing system on April 29, 2017. The delegation of eight members comprising the representatives of Ministry of Agriculture and Nature Resources, Ministry of Industry, Ethiopian Industrial Inputs Development Enterprises (EIIDE), Cotton Producers, Ginners and Exporters Association (CPGEA), Ethiopian Textile Industry Development Institute (ETIDI) and Enterprise Partners led by Mr. Astaween Alene, Director General, EIIDE visited the institute. In the meeting discussion was held on range of issues related to production, processing & marketing of Cotton, role of research institutions and policy issues. Further, the delegation expressed their desired to have collaboration in the field of skill development and development of post-harvest processing technologies including value addition to biomass.



Group photo of Ethiopian Delegation with Dr. P.G. Patil, Director, ICAR-CIRCOT and other staff at ICAR-CIRCOT on April 29, 2017.

SPECIAL NEWS





## Technology Insight

### Development of Single Locking Cotton Feeder for Double Roller Gin

Cotton feeding mechanism to DR gin significantly affects ginning efficiency. Therefore to improve the feeding, an automatic single locking cotton feeder which regulates feed rate and ensures single locking of cotton & feed continuous batt of cotton at the ginning points across the knife edges of DR gin was designed. It was designed with three different mechanisms viz 1) saw band cylinders with twin regulator and apron 2) spike cylinders and feed roller 3) combination of both. First mechanism consists of twin regulator assembly with sensor controlled regulated feeding, saw band cylinder assembly for single locking of seed cotton and apron for uniform feeding of single locules at ginning point. Second mechanism consists of a pair of feed roller, pair of spiked cylinders and grid bar housed in a hopper, chute for cotton distribution on either side of DR gin. Third mechanism is a combination of the first and second mechanisms which comprises of feed roller, spike cylinders with saw band cylinders and apron, power transmission and main frame assembly. Prototypes of single locking cotton feeder with three designs have been developed and is under testing.



Single locking cotton feeder with DR gin

### Cotton-Bamboo Viscose Blended Fabric for Active Wear

A novel product with multifunctional properties of smoothness, softness, antimicrobial properties and UV protection ability has been produced using the blend of cotton and bamboo viscose fibres. A hosiery grade yarn was first spun to 30s Ne using cotton and bamboo viscose fibres in the blend proportion of 60:40 using compact ring spinning technology and then knit into pique structure.

Pique knit structure gives a textured surface on fabric. The knit fabric was then given a novel ZnO finish to impart antimicrobial and UV protective functionalities after pretreatments. The unique *in-situ* synthesis of antimicrobial agent in fabric structure results in enhanced durability of finish up to 30 washes. This fabric (GSM 170) was then cut and stitched into garments of different sizes. The produced garment has better smoothness and softness along with better moisture transport properties and can be used as a leisure and active wear.



Pictures of developed cotton/bamboo T-shirts

## TV Talk on Modern Cotton Ginning Process

Dr. P. G. Patil, Director and Er. V. G. Arude, Scientist & Head (In-charge), M. P. D., participated in a TV talk show *Amachi Mati Amachi Mansa (DD Sahyadri)*. The topic of discussion on the talk show was Modern Cotton Ginning Process. The experts highlighted the role played by ICAR-CIRCOT in modernization of cotton ginning industry in India as well as research work being carried out in this area.





The talk covered the importance of better management practices to be followed during cotton picking, storage and transportation, importance of cotton grading, gin setting for preserving fibre and seed quality, economic of cotton ginning, challenges faced and need for skill development in cotton ginning sector. This programme was telecasted on April 17 and 18, 2017 on Sahyadri Channel of Doordharsan.



## Events

### Celebration of Ambedkar Jayanti

The 126<sup>th</sup> Birth Anniversary of Bharat Ratna Dr. Babasaheb Bhimrao Ambedkar was celebrated in the institute on April 13, 2017. On the occasion Prof. Damodar More delivered a lecture highlighting the multidimensional personality of Dr. Babasaheb Bhimrao Ambedkar to the audience. Dr. P.G. Patil, Director highlighted the greatness and progressive thinking of Dr. Babasaheb Bhimrao Ambedkar Whereas, Mr. Sunil Kumar, Sr. A.O told that Dr. Babasaheb Bhimrao Ambedkar stood firmly for democratic, progressive and reformatory causes.



Dr. P. G. Patil, Director, ICAR-CIRCOT and Prof. More are paying their tribute to Bharat Ratna Dr. Babasaheb Bhimrao Ambedkar on April 13, 2017

### Cashless ICAR Institute Award Felicitation Function

A Felicitation function was organized to celebrate the Cashless ICAR institute awards received by the institute during February 14, 2017 at the Directors conference. Dr. P.G. Patil, Director, ICAR-CIRCOT welcomed the dignitaries and gave a brief presentation on the developments that had happened in the Institute during the last three years. Dr. R. P. Kachru, Former ADG (PE) was the Chief Guest on the occasion in the presence of Dr. S. Sreenivasan, Former Director, ICRCOT, Dr. A. J. Shaikh, Former Director, CIRCOT and Dr. K. K. Satapathy, Former Director, ICAR-NIRJAFT. Shri S. V. Kasabe briefed the gathering on the Institute's journey towards cashless transaction. During the function certificate of appreciation was given to the Staffs of finance and administrative sections (*Shri S. V. Kasabe, AF & AO, Smt. Sujatha Koshy, AAO, Shri R. K. Pallewad, AAO, Shri S. N. Telpande, AAO, Shri S. D. Ambolkar, Assistant, Shri S. V. Kokane, ACTO, Smt. P. S. Nirhali, ACTO, Shri D. U. Kamble, STO, Shri A. K. Jadhav, STA*) for their contribution in implementing the cashless transaction in the institute. The pre-paid card were also issued to all the imprest money holders to further the process of cashless transaction. In the chief guest address Dr. R.P. Kachru appreciated the all-round development that is happening in the institute.



Cashless ICAR Institute Award Felicitation

### Krishi Unnati Mela

ICAR-CIRCOT participated in Krishi Unnati Mela jointly organized by ICAR, New Delhi and FICCI during March 15-17, 2017 at IARI mela ground, New Delhi. Shri. Radha Mohan Singh, Hon'ble Union Minister of Agriculture and farmer's Welfare, GOI inaugurated the mela in presence of DG, ICAR and other dignitaries. During his inaugural speech he guided all the farmers about newly launched farmer's related schemes. Almost all ICAR institutes, Agricultural Universities and many private Agricultural organizations participated in mela.





Dr. S.N. Jha, ADG (Process Engg.) and Dr. P.G. Patil, Director, CIRCOT were also present during the inauguration function. The farmers from Delhi, Punjab, Haryana, Madhya Pradesh, Gujarat visited the mela. ICAR-CIRCOT stall displayed the information on post-harvest technologies on cotton, utilization of Cotton by-produce, cotton quality evaluation, specialized trainings organized by CIRCOT and latest developments in the field of cotton.



**Shri. Radha Mohan Singh, Hon'ble Union Minister of Agriculture and Farmer's Welfare, GOI, giving inaugural address in Krishi Unnati Mela**



**Students, Entrepreneurs and Businessmen at ICAR-CIRCOT stall at New Delhi**

### Swachh Bharat Abhiyan

A cleaning programme was organized by Chemical and Biochemical Processing Division (CBPD) in the Biochemical Processing Section of the institute on April 13, 2017. The feedstock of anaerobic microbial consortium was arranged properly and very old consortia were safely discarded. The reaction vessels containing unwanted microbial consortia were safely discarded and kept clean for further use. Test samples after the expiry period and unwanted samples of students were disposed off.

The unwanted materials like empty chemical bottles, unused and broken glass wears were taken out and stored properly for further disposal. All the staff members of CBPD and research students participated actively and enthusiastically in this cleaning programme.



**Cleaning and arrangement of chemical bottles, feed stock and consortia in CBPD under Swachh Bharat Abhiyaan on April 13, 2017**

Another cleaning programme was organized at Mechanical Processing Division (MPD) in the institute on April 26, 2017. The blow room area was cleaned by removing the waste cotton and some machineries lying near blow room were relocated. All the staff members of MPD enthusiastically participated in the cleaning programme.



**Cleaning and arrangement of machineries in MPD under Swachh Bharat Abhiyan on April 26, 2017**

### Visits

#### Industrial Scale Trial on Salt Free Dyeing

The salt free reactive dyeing process developed at the institute for dyeing of cotton was scaled-up with an industrial trial at M/S Ginni Silk Mills, Boisar. About 300 metres of cotton fabric was dyed using the developed technology in the jigger machine that has uniform dyeing of required shade without using any salt.







Industrial scale trial at M/S Ginni Silk Mills, Boisar

### Director's Visits

- Dr. P.G. Patil, Director attended a meeting of State-wise Coordination Committee Meeting of Maharashtra State for doubling farmers' income by March 2022 held at College of Agriculture, Shivaji nagar, Pune, on April 3, 2017
- Dr. P.G. Patil, Director attended a meeting convened by the D.D.G. (Engg.), ICAR with the Chairman, QRT, ICAR-CIRCOT and the concerned ADG and Director for deciding QRT Members of ICAR-CIRCOT for the period of 2012-2017 held at KAB-II, Pusa, New Delhi on April 20, 2017. Dr. P.G. Patil also attended the ICAR Review Committee (interactive) meeting for Horticulture and Agricultural Engineering Divisions chaired by Dr. Mruthyunjaya, Member of ICAR-Review Committee regarding discussion on various issues relating to the terms of reference, including scientific and social impacts, resources, consolidation, etc. held at NIAP, New Delhi. The meeting was attended by all Directors of the ICAR Institutes under these Divisions
- Dr. P.G. Patil, Director along with Dr. S.V. Ghadge, Sr. Scientist attended the second state level coordination committee meeting for doubling of farmers' income held at NRC Grapes on April 27, 2017. All the ICAR institutes located in Maharashtra, state agricultural universities, state departments of agriculture and horticulture and progressive farmers participated in the discussions.

Chaired by Dr. K.P. Vishwanatha, VC, MPKV Rahuri, the meeting was coordinated by Dr. N.P. Singh, Director, NIASM Baramati. Shri. Deepak Kesarkar, Minister of State for Home (Rural), Finance and Planning, Govt of Maharashtra made special appearance as the chief guest; and shared experiences in Chandrapur and Ratnagiri districts on the prospects of increasing farmer incomes through integration of farming and tourism activities. Dr. P.G. Patil, Director made a presentation about role of ICAR-CIRCOT in doubling farmers' income.



Dr. P.G. Patil, Director giving presentation on doubling cotton farmers' income, during state level coordination committee meeting held at NRC grapes on April 27, 2017



Shri. Deepak Kesarkar, Minister of State for Home (Rural), Finance and Planning, Govt of Maharashtra during state level coordination committee meeting held at NRC grapes on April 27, 2017.

## Meetings

### AICRP on Cotton: Annual Group Meet

The annual group meet for the year 2016-17 of AICRP on Cotton was held during 8-10 April, 2017 at Anna Auditorium of Tamil Nadu Agricultural University, Coimbatore. The Technological report for the year 2016-17, a compilation of the cotton quality information of all the varieties under different stages of the field trial, was released in the inaugural session of the workshop.





The Technological Report for the season was presented by P. K. Mandhyan, Sr. Scientist and PI, Quality Research. Shri V.L. Rangari, ACTO, GTC of CIRCOT who is retiring in August, 2017 was felicitated on the occasion.



Dr. P.K. Mandhyan presenting the technological report in annual group meet for the year 2016-17 of AICRP on Cotton

### Screening of Concept for Pre-project Proposals for ICAR-NASF

A meeting of Screening Committee under the chairmanship of Dr. P.G. Patil, Director held on April 21, 2017 at ICAR-CIRCOT, Mumbai to discuss and screen the pre-proposals for submission to ICAR-National Agricultural Science Fund. Dr. R. P. Kachru, Former ADG (PE) of ICAR, New Delhi, Dr. S. Sreenivasan, Former Director, ICAR-CIRCOT, Mumbai, Dr. A. J. Shaikh, Former Director, ICAR-CIRCOT, Mumbai, and Dr. K.K. Satapathy, Former Director, ICAR-NIRJAFT, Kolkata were the experts. There were nine pre-project proposal presentations and the committee identified six proposal for submission and provided the inputs for improvement of the pre-project proposal.



Members of pre-proposal screening committee during the meeting held on April 22, 2017

### ISO Management review meeting

Management review meeting for ISO 9001:2008 Quality Management System (QMS) of ICAR-CIRCOT was conducted on April 12, 2017. Dr. A.S.M. Raja, Management Representative presented the outcome of the internal audit held in the month of February 2017. All internal auditors briefed the audit observations. Dr. P. G. Patil, Director reviewed the quality policy & objectives and overall implementation of QMS. He urged the staff members to work with dedication to achieve the targets in stipulated time. He directed the ISO implementation cell to take necessary steps for the quick implementation of ISO 9001:2015.

### Presentation

#### Attachment Training Presentation

Dr. Manoj Kumar, Dr. Sharmila S. Patil and Mrs. Archana Mahapatra, Scientists (on Probation) had completed the three month professional attachment training as a partial fulfillment of the requirement for the Foundation Course for Agricultural Research Services (FOCARS) and gave a presentation of their work on April 12, 2017.

#### Colloquium Presentation

- Mr. A. Arputharaj, Scientist, delivered his colloquium presentation on "Development of Protective Cellulosic Textiles using Nanotechnology" on April 6, 2017 at Institute of Chemical Technology (ICT), Mumbai.
- Er. A. K. Bharimalla, Senior Scientist delivered his colloquium presentation on "Preparation of Nanocellulose by Chemo-Mechanical Process and its Application to Improve the Mechanical Properties of Kraft Paper" on April 15, 2017 at Institute of Chemical Technology (ICT), Mumbai.





## Demonstration

GTC, Nagpur conducted a one day field demonstration on cotton stalks chipping and using it for the preparation of compost at the farm of a progressive farmer, Mr. Niranjana Manish Gonwade, Amgaon Village, Selu taluk, Wardha Dist on April 29, 2017. Fifteen farmers representing Amgaon and Khadki villages participated in the program. The farmers were educated about the operation of electrical chipper for chipping of cotton stalks and other biomass. The steps involved in preparation of bio-enriched compost using the chipped cotton stalks was also demonstrated to the farmers. During the program, the team of experts had an opportunity to meet Mahila SHG at Amgaon Village, who showed their interest in mushroom technology developed by CIRCOT as a business model to empower the women in the village.



Live demonstration of cotton stalk chipping at field of Amgaon Village, Selu taluk, Wardha District on April 29, 2017

## Conference / Seminar / Workshop

- Dr. Shashikant V. Ghadge, Sr. Scientist attended the Institute of Electrical and Electronics Engineers (IEEE) International Conference on "Technological Innovations in ICT for Agriculture and Rural Development (TIAR 2017)" organized by Easwari Engineering College, Chennai during April 7-8, 2017 and presented a paper on 'Performance Evaluation of Trash Analyzer and Opener Blender for Opening Cotton Lint Samples used in Fibre Quality Testing'



- Dr. P.K. Mandhyan, Sr. Scientist & Head In-charge, QEID along with his team of technical Officers namely Dr. Venkatkrishnan, Mr. R.K. Prabhudesai, Mr. C.M. More, Mr. R.K. Jadhav, Mr. V.L. Rangari, Dr. Hamid Hasan and Mr. B.R. Pawar attended "Annual Group Meeting of AICRP on Cotton" organized by Tamil Nadu Agricultural University, Coimbatore during April 8-10, 2017.
- Dr. S. K. Shukla, Sr. Scientist & Officer In-charge, GTC, Dr. Mageshwaran, Scientist, Er. Varsha Satankar, Scientist and U.D. Devikar, Technical Officer participated in one day workshop on "Creating an Ecosystem for Innovation and Technology Development & B2B Catalogue Display Show" conducted by The Textile Association of India (TAI) at Nagpur on April 26, 2017.

## Patents Granted

Two patents were granted

- A Method for the Production of Cellulose Powder from Crop Residues (Patent No. 276255).
- A Bio-enrichment of Cattle feed for Better Digestibility (Patent No. 276257).

## Sports

- Mr. S. K. Parab, Technical Assistant, participated in ICAR Inter-Zonal Tournament held at IARI, New Delhi during April 25-29, 2017.
- Mrs. Tereza Theofilo Dsouza, Personal Assistant, participated in 9<sup>th</sup> World Masters games 2017 for walking and running held at Trust Arena Stadium, Henderson, Auckland, New Zealand during April 21-30, 2017.





## Personnel

### Recruitment

- Ms. Jyoti Prabhakar Dhakane, Scientist (on Probation) having ARS Discipline of Agricultural Process Engineering of the 105<sup>th</sup> FOCARS batch joined ICAR-CIRCOT on April 15, 2017.



### Promotion

The following personnel were promoted to the next higher grade pay on the recommendations of Departmental Promotion Committee.

**1. Shri M. Mohan,**

Chief Technical Officer (CTO)

*Effective Date of Promotion: 01.01.2016*

**2. Dr. (Smt.) Sheela Raj,**

Chief Technical Officer (CTO)

*Effective Date of Promotion: 01.01.2016*

**3. Dr.(Smt.) Sudha Tiwari,**

Asst. Chief Technical Officer (ACTO)

*Effective Date of Promotion: 05.09.2009*

**4. Smt. P.S. Nirhali,**

Asst. Chief Technical Officer (ACTO)

*Effective Date of Promotion: 20.11.2015*

**5. Shri S.V. Kokane,**

Asst. Chief Technical Officer (ACTO)

*Effective Date of Promotion: 01.01.2016*



### Transfer

- Shri Sunil Kumar, Sr. Administrative Officer was transferred from ICAR-DOGR, Pune to ICAR-CIRCOT, Mumbai and joined the institute on April 12, 2017.

### Retirement

- Shri Dipak Namdeorao Moon, (ACTO) who joined the institute on May 5, 1984 superannuated on April 30, 2017.



## PERSONNEL



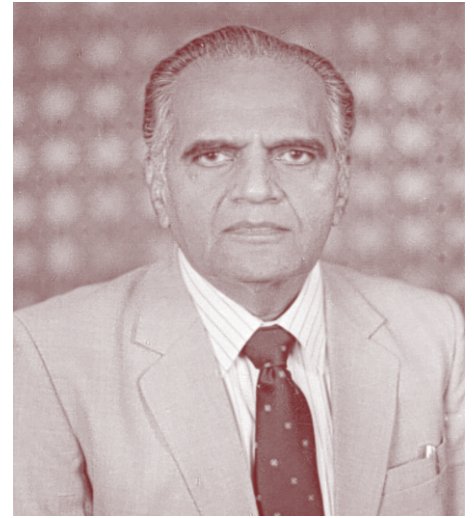


## Obituary

(Dr. N. B. Patil, Former Director, ICAR-CIRCOT)

The institute's Former Director Dr. N.B.Patil (1988 – 1994) passed away at his Mumbai residence on 22<sup>nd</sup> March'2017. The institute deeply mourn this sudden death.

Dr. N. B. Patil, Former Director, ICAR-CIRCOT had an illustrious career ever since he joined the institute, the then Cotton Technological Research Laboratory (CTRL) in 1969 as Sr. Scientific Officer. Prior to his appointment at ICAR-CIRCOT, Dr. Patil was Scientific Officer at ATIRA, Ahmedabad from where he obtained his doctoral degree, as well. Dr. N.B. Patil at ATIRA along with Dr. Dweltz were responsible for developing a detailed method of analysis of X-ray Diffraction pattern of cotton fibres and instrumental in developing a method for evaluating crystallinity of cotton fibre and its relation to mechanical properties.



After joining CIRCOT, Dr. N.B. Patil served the institute in various capacities such as Sr. Scientific Officer, Senior Physicist and Scientist S-3 to S -5, Principal Scientist and the Director of the institute during his long career spanning more than 30 years.

In his 7 years tenure as a Director, he has significantly contributed towards strengthening of infrastructure and diversifying research activities of the institute. During his tenure, a very detailed analysis of influence of fibre, yarn and fabric and structural attributes in guiding mechanical performance of cotton was done at the institute. Lots of infrastructure strengthening activities carried out at institute's Head Office at Matunga, Mumbai and Ginning Training Centre at Nagpur reflects his foresightedness in modernization of an R & D institute. He has gently mentored many Technical Officers for obtaining M.Sc. degree by research in Physics.

Dr. N.B. Patil was very meticulous and methodical in his approach both in research and administration. His analytical ability in assessing and finding solutions to complex problems helped immensely in smooth running of the institute. He was instrumental in conducting several national conferences and workshops on cotton technology. He had been deputed for several foreign assignments by Govt. of India. He has a large number of publications to his credit.

During his tenure, The Institute was rechristened as Central Institute for Research on Cotton Technology (CIRCOT) on 1<sup>st</sup> April, 1991 at the able hands of Dr. A. B. Joshi, Former DDG (Crop Science), ICAR. Dr. N.B. Patil superannuated for ICAR services on 31<sup>st</sup> December, 1994.

Dr. N. B. Patil was one of the founder members of Indian Society for Cotton Improvement, Mumbai. He has contributed immensely as Chief Editor of *The Journal of ISCI*, a Half- yearly publication of the society for a period of 5 years. Dr. Patil was also conferred with ISCI Fellowship in recognition of his immense contributions in cotton processing and value addition to cotton by-products.

Dr. N. B. Patil was a dynamic leader and a strong motivator for youngsters at the Institute. ICAR-CIRCOT will always remember him with gratitude and will cherish his memories through the contributions towards the Institute.

All CIRCOT fraternity pray for peace to the departed soul. May his soul rest in peace!

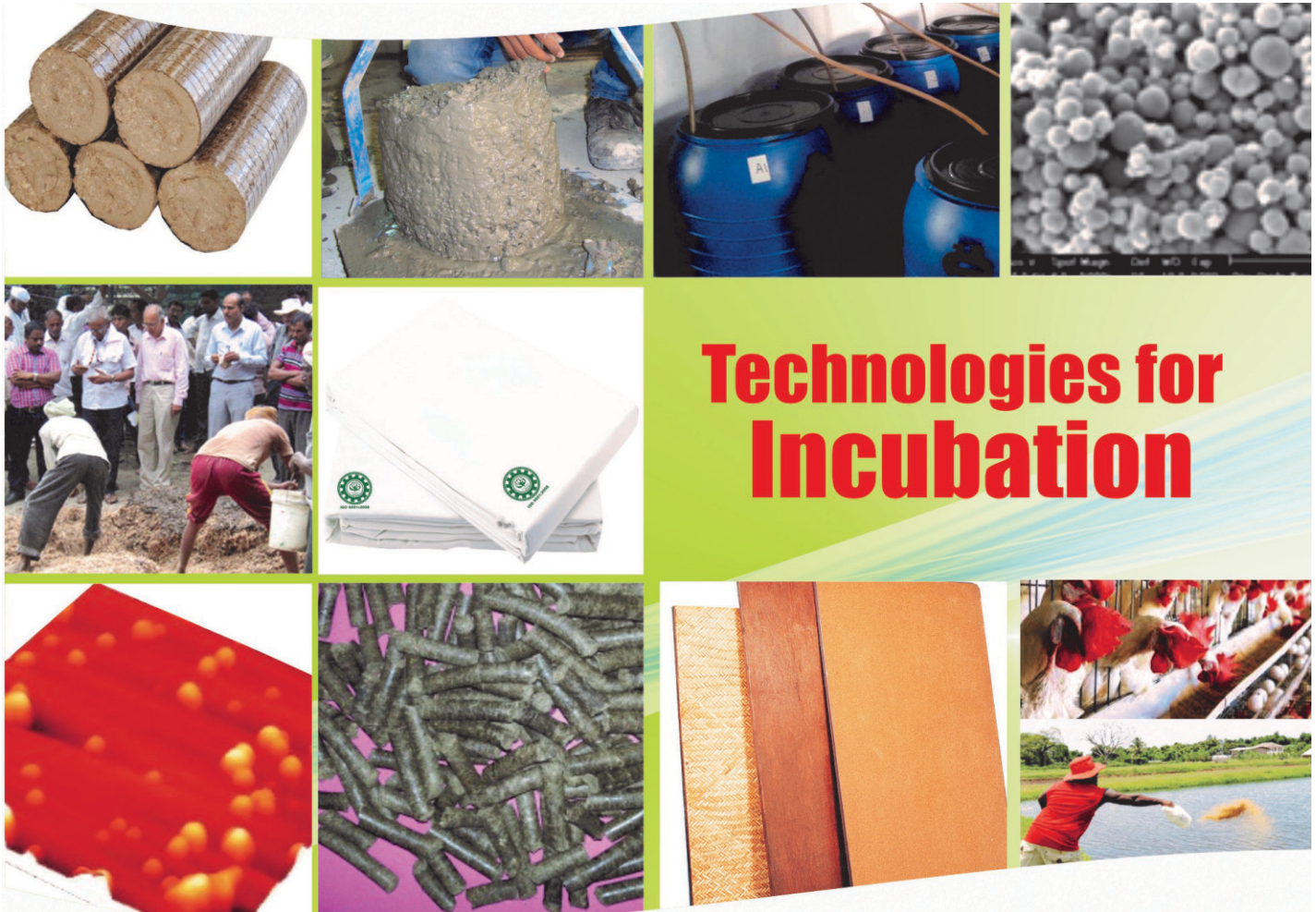




# Agri-Business Incubation

## Technologies Available for Incubation at the ICAR-CIRCOT ABI Centre

- 1) Ecofriendly preparation of absorbent cotton for medical & hygiene products.
- 2) Nanofinishing Technologies for Cotton Textiles
  - a) Antimicrobial
  - b) UV protection
  - c) Water repellency
- 3) Cotton rich blends for functional textile applications
- 4) Innovation Finishing processes for garments & home textiles: Mosquito repellent, pesticide protection cloths & denim fading
- 5) Software module for non-metameric color matching in textiles
- 6) CIRCOT Calibration Cotton for global outreach
- 7) Sustainable business model for cotton at village level:
  - a) Quality based trading
  - b) Supply chain logistics for cotton stalk (custom hiring)
  - c) Value addition to cotton biomass
  - d) CIRCOT mini card for sliver preparation
- 8) Microbial Degossypolisation cottonseed meal for use as feed in poultry, fish & piggery sectors
- 9) Enhancing farmers and other stakeholders income by Cotton value chain: via startup & entrepreneurship development
- 10) Cotton Trading based on Quality Parameters for better price remuneration by Farmers



**Technologies for Incubation**





## Upcoming Events

### Calendar of training cum-skill development programmes for the year 2017-18

S.No.	Title of Training	Period	Fees (Rs) (excluding Service tax)
1	An Introductory course on Instrumental Evaluation of Clothing Comfort	15-19 May, 2017 07-07 Dec., 2017	50,000
2	Value addition to Cottonseed	22-24 May, 2017	12, 000
3	Absorbent Cotton Technology	02-04 Aug., 2017	15, 000
4	Advances in Applications of Nanotechnology	11-15 Sept., 2017	25,000
5	Quality Evaluation & Spinning performance of Indian Cottons using Advanced Techniques	20-22 Sept., 2017	10,000
6	Spinning of Technical Yarn	05-07 Oct., 2017	10,000
7	Basic & advanced Statistical Techniques for Research	15-17 Nov., 2017	8,000
8	Characterization of Materials Using X-Ray Diffractometer (XRD)	19-21 Dec., 2017	30,000
9	Basic and Advanced Techniques for Evaluation of Textile Materials	04-06 Jan., 2018	10, 000
10	Advances in Microscopy	16-18 Jan., 2018	15, 000
11	Electrospinning Technologies & their Applications	23-25 Jan., 2018	10,000
12	Fibre Reinforced Composite	07-09 Feb., 2018	10,000
13	Quality Evaluation of Cotton	22-26 May, 2017 24-28 July, 2017 07-11 Aug., 2017 11-15 Sept., 2017 23-28 Oct., 2017 20-24 Nov., 2017 29 Jan.-. 2 Feb, 2018 19-23 Feb., 2018	10,000
14	Double Roller Ginning Technology & Basics of Cotton Grading, GTC, Nagpur	17-22 April, 2017 22-27 May, 2017 19-24 June, 2017 10-15 July, 2017 07-12 Aug., 2017 18-23 Sept. 2017 09-14 Oct., 2017 13-18 Nov., 2017 18-23 Dec., 2017 15-20 Jan., 2018 12-17 Feb.,2018	10,000
15	Customized training programme for students & academia*	Two days (Dates can be finalized as per the requirement)	2,000
16	Customized training programme for students & academia*	One day (Dates can be finalized as per the requirement)	1,000





## *Down Memory Lane*



**Dr. N. B. Patil, Former Director, ICAR-CIRCOT welcoming Smt. Asmitha Bhawe, Hindi Officer, RFC in the year 1992.**

**MEMORY** Lane



## Contact detail

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