

## E - News Letter

May 2017, Vol. 4. No. 2

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



The good price for the cotton crop in 2016-17 is expected to bring in a positive impact on the cotton production front. The area under Cotton crop in India is expected to increase by 7 per cent to 11.3 million hectares with the production estimates pegged at around 6 million tonnes by International Cotton Advisory Committee (ICAC). The international scenario also reflects similar forecast with increase in global area under cotton cultivation by 5 per cent reaching 30.8 million hectares. The cotton area in USA is expected to increase by 12 per cent to 4.3 million hectares.

The world cotton consumption is expected to exceed world production yet again. The world cotton consumption is expected to increase by 2 per cent to 24.6 million tonnes against the estimated production of 24 million tonnes. After experiencing a decline in the mill consumption in India during 2016-17, it is expected to recover by 2 per cent and the mill consumption of other major consumers like China, Pakistan, Bangladesh are also expected to increase in 2017-18. World cotton trade is projected to be bullish with forecast of increase in the imports in Bangladesh, Vietnam and China. The Cotlook price index during the period 2016-17 was 78 cents per pound and it is expected that the price during 2017-18 may hover around 71 cents per pound.

Further, I am very happy to announce that the ICAR-CIRCOT, Mumbai along with Indian Society for Cotton Improvement, ICAC-International Cotton Advisory Committee, Washington, DC and ICAR-CICR is organizing the Seventh Cotton Research and Development Network (ACRDN) Meeting during September 15-17, 2017 at Nagpur. The theme of the Network meeting is "Production of Quality Fibre and Doubling Cotton Farmers' Income". Detailed information is available in this newsletter and I take this opportunity to invite all of you to participate in this meeting in large number and make it a grand success.

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



## Special News

### ICAR-CIRCOT bagged Award for outstanding work in Hindi

ICAR-CIRCOT was awarded Rajbhasha shield and certificate for its outstanding work in Official Language during 2016-17 from among 91 Mumbai based Central Govt. offices on May 31, 2017. The award was received by Dr. P. G. Patil, Director, ICAR-CIRCOT from Shri. A. K. Gupta, President, Town Official Language Implementation Committee (TOLIC), Mumbai and GM, Western Railway. Shri Sunil Kumar, SAO, Mrs. T. P. Mokal, I/C O.L. Cell & AAO; and Mrs. P. R. Mhatre, I/c. Library from ICAR-CIRCOT were present during the occasion.



Dr. P. G. Patil, Director, ICAR-CIRCOT receiving award for outstanding work in official language

## Technology Insight

### Development of Cotton/PLA/Bamboo Blended Garments

Three component blend yarns and fabrics were produced with cotton, bamboo viscose and PLA fibres using four different blend ratios namely, 60/20/20, 50/30/20, 50/20/30 and 40/30/30 of cotton/bamboo and PLA respectively. The fibres were blended in a blowroom and taken through the processes of carding, drawing, roving and finally spinning. The fibres were spun into yarns using compact ring spinning machine to a count of 40s. The yarns were then knit into single jersey structure with a fabric GSM of 110. After chemical pretreatments, the PLA component was first dyed using supercritical dyeing method that uses no water for dyeing and the cotton and bamboo component were dyed with low salt reactive dyes making it an environment friendly process compared to the conventional ones. The dyed fabrics were then stitched into garments. The product has the functionalities of improved smoothness and softness with better moisture wicking ability suitable for use as high end casual wear.



Developed cotton/bamboo/PLA blended garment

## Skill Development Programmes

### Training on Instrumental Evaluation of Clothing Comfort

A five day special training programme on “Instrumental Evaluation of Clothing Comfort” was organized first time at ICAR-CIRCOT, Mumbai during May 15-19, 2017. Twelve participants from Birla Cellulose (TRADC), NIFT, DEBEL DRDO and ICAR-NIRJAFT attended this training programme. In addition three scientists from ICAR-CIRCOT, Dr. Sharmila Suresh Patil, Ms. Archana Mahapatra and Ms. Jyoti Prabhakar Dhakane also attended this training programme. The aim of this training programme was to acquaint the participants on various aspects of fabric comfort including recent developments in instrumental evaluation of fabric's wear comfort. Along with the theoretical knowledge on both tactile and thermo-physiological comfort properties of fabrics, the participants were also provided with hands-on experience on the working of various instruments namely Kawabata Fabric-Evaluation System (objective fabric hand evaluation), Thermolab II (for evaluation of thermal properties of fabrics), Moisture Management Tester (MMT) (to study fabric performance under wet condition), Dish Apparatus (measurement of water vapour transport through fabrics), KES-FB-AP air permeability tester and other key instrumentations used in clothing comfort evaluation. Dr. S. Sreenivasan, Former Director, ICAR-CIRCOT, Dr. R. P. Nachane, Former Head, QEID, ICAR-CIRCOT and Dr V Subramaniam, Former Professor & Head, Anna University, Chennai gave their expert advice and guidance in organization of this programme.



Group Photo: Training program on “Instrumental Evaluation of Clothing Comfort” during May 15-19, 2017

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

A one week training programme on “Double Roller Ginning Technology and Basics of Cotton Grading” was conducted at ICAR-CIRCOT, Mumbai during May 1-6, 2017 in which participants from different ginning industries of Maharashtra participated. This programme was conducted to cater to the needs of cotton processing industries, in particular for ginners and fitters. The training program dealt with fibre quality assessment, cotton grading and marketing, DR ginning technology, cotton export and cotton by-products utilization.

## Workshop

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

The Workshop on “*Mechanization of Cotton Cultivation, Harvesting and Ginning: Challenges, Opportunities and Way Forward*” was held on May 5, 2017 at ICAR-CIRCOT, Mumbai. Dr. K. Alagusundaram, Deputy Director General (Agricultural Engineering), ICAR, New Delhi, presided over 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. He urged the stakeholders to provide complete solution for mechanisation of cotton cultivation covering sowing, intercultural operations, harvesting, along with the extension services so that farmers can adopt it. The deliberations 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 for mechanically harvested cotton in the market. He opined that the potential technologies developed by the private sector should be tested on a large scale through multi-location trials under the AICRP on Farm Implements and Machinery.

Dr. P. G. Patil, Director, ICAR-CIRCOT stressed upon the need for mission mode approach encompassing all the stakeholders in public and private sectors for successful implementation of cotton mechanisation programme that will benefit the farmers 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 and Dr. G. R. Anap, International 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, Jadhav 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 programme in different spheres of cotton value chain.

On this occasion 15 leaflets of skill development programmes 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 in Charge, MPD as Organising Secretary.



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

## Quinquennial Review Team

Following Quinquennial Review Team (QRT) has been constituted by the Director General, ICAR to review the work done by the ICAR-CIRCOT, Mumbai during 2012-17 and to suggest the recommendations for future research activities.

Dr. N. C. Patel, Hon'ble Vice chancellor, Anand Agricultural University, Anand	: Chairman
Dr. G. R. Anap, Former International Cotton Ginning Consultant	: Member
Dr. N. J. Thakor, Former Head, Department of Agricultural Process Engineering, DBSKKV, Dapoli	: Member
Prof. V. D. Gotmare, Head, Department of Textile Manufactures, VJTI, Mumbai	: Member
Dr. M. K. Sharma, President, M/s. Bajaj Steel Industries Limited, Nagpur	: Member
Dr. Sujata Saxena, Principal Scientist, ICAR-CIRCOT, Mumbai	: Member Secretary

The first meeting of QRT is scheduled to be held on 28.06.2017 at ICAR-CIRCOT, Mumbai.

## Visits

### Visit of Ethiopian Delegation

Nine Ethiopian delegates representing Ministry of Industry, Ministry of Agriculture, Ginning Industries and Cotton Trading Houses, visited GTC, Nagpur on May 2, 2017. Dr. S. K. Shukla, Officer-in-charge, GTC, Nagpur convened a meeting with the delegates in the presence of scientists during which discussions were held on a range of topics from ginning to value-addition of cotton biomass. The delegates were exposed to various facilities at GTC, Nagpur including cotton quality testing, particle board making and cottonseed processing plants and composting and mushroom production units. The delegates expressed their interest in collaboration with Govt. of India in the areas of cotton processing and quality evaluation and value-addition to cotton by-products and biomass.



Ethiopian delegates at GTC, Nagpur

### Visit of Mr. Rajan Agarwal, CVO, ICAR to CIRCOT, Mumbai

Shri Rajan Agarwal, Director (International Cooperation) & Chief Vigilance Officer (DARE & ICAR), visited the Institute to discuss the matter related to international cooperation and vigilance on 19<sup>th</sup> May 2017.



## Events

### Swachh Bharat Abhiyan at ICAR-CIRCOT, Mumbai

A cleanliness programme was organized by Quality Evaluation and Improvement Division (QEID) on May 12, 2017. Waste cotton, fabric and yarn samples left out after testing and were previously kept in cupboards of store room were removed, filled in gunny bags and sent to Mechanical Processing Division (MPD) for proper disposal. All the staff members of QEID participated enthusiastically in this cleaning programme.



Cleaning and arrangement of waste cotton in MPD under Swachh Bharat Abhiyan on May 12, 2017

### Swachh Bharat Abhiyan at GTC, Nagpur

A cleanliness programme was organized at GTC Nagpur on May 17, 2017. The quality tested cottons were segregated and cleaned for proper storage and disposal. All the staff members of GTC participated enthusiastically in this cleaning programme.



Cleaning and segregation of quality tested cotton in GTC under Swachh Bharat Abhiyan on May 17, 2017

### Swachh Bharat Abhiyan at ICAR-CIRCOT, Mumbai



Cleaning of office premises under Swachh Bharat Abhiyan on May 31, 2017



## Swachhta Pakhwada

ICAR-Central Institute for Research on Cotton Technology celebrated the Swachhta Pakhwada from May 16-31, 2017 to contemplate the Swachh Bharat Abhiyan. Dr. P.G. Patil, Director, ICAR-CIRCOT administered the oath to all the staff to maintain the cleanliness of their working places and residential premises. Various cleaning drives were conducted during this period.



Dr. P. G. Patil, Director, ICAR-CIRCOT administering oath to staff members

## ISO Audit

### Internal Audit

An internal auditing was conducted by the BIS trained auditors for different divisions of the Institute during May 11-12, 2017. The auditors have communicated the observations to the ISO implementation cell. A new check list was prepared on the basis of the requirement of ISO 9001:2015 standard. The Institute is gearing up to get the ISO 9001:2015 accreditation.

## Orientation Training

Ms. Jyoti Prabhakar Dhakane, Scientist (on probation), ICAR-Central Institute for Research on Cotton Technology, Mumbai completed her orientation training in partial fulfillment of the foundation course for Agricultural Research Services (FOCARS) during April 15 to May 20, 2017.

## Director's Visit

Dr. P.G. Patil, Director, ICAR-CIRCOT inaugurated the TANTU exhibition organized at NIFT, Navi Mumbai on 26<sup>th</sup> May, 2017. The exhibition displayed the Graduation project work of Textile Design students of NIFT, Mumbai campus.

## Participation in Conference/ Seminar/ Workshop

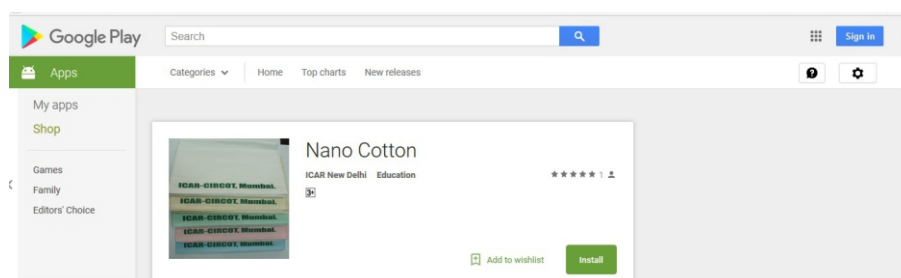
- ✓ Dr. Sujata Saxena, Principal Scientist & Head I/C, CBPD and Shri V.G. Arude, Scientist & Head I/C MPD attended teleconference on best management practices for cotton value chain with Prof. Spangenberg, Victorian government, Australia and meeting on planning for next phase of Technology mission on Cotton at Textile Commissioners' office, Mumbai held on May 11, 2017.
- ✓ Dr. A.S.M. Raja attended the 45<sup>th</sup> Joint AGRESCO meet held on May 29, 2017 at Vasant Rao Naik Marathwada Agriculture University, Parbhani. The meeting was inaugurated by Hon'ble Agricultural minister, Government of Maharashtra to share the research achievements of the agricultural Universities, ICAR institute and state departments. Dr. A.S.M. Raja presented the major research achievements of the Institute on the occasion.

## Publications

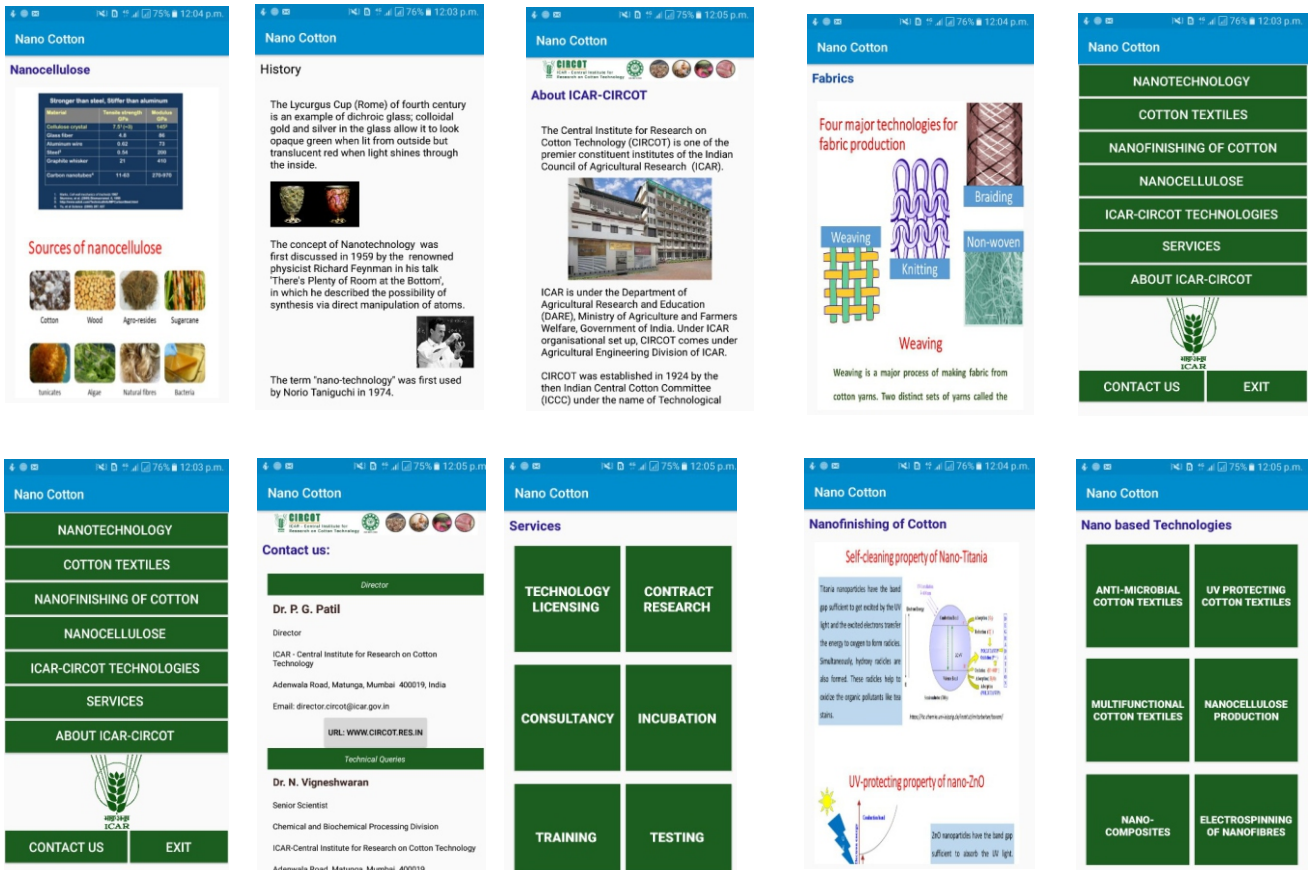
- P K Mandhyan, R P Nachane, S Banerjee, B R Pawar & H S Koli (2017), Nonlinear Maxwell modelling of inverse relaxation in yarns and fabrics, Indian Journal of Fibre & Textile Research, Vol. 42, June 2017, 168-174
- Training calendar for year 2017-18
- Training Manual on "Instrumental Evaluation of Clothing Comfort"

### Mobile App on "Nano Cotton"

A new mobile app on "Nano Cotton" has been launched to enable various stakeholders to get sensitized about the basics of nanotechnology, cotton textiles, nanofinishing and the nano-based technologies available at ICAR-CIRCOT Mumbai and the services being provided for the stakeholders. This App was developed by Dr. N. Vigneshwaran, Sr. Scientist & his team. This app is compatible with a large number of Android mobile phones. The app may be downloaded free through Google Play app store as given below.



Below are the screenshots of the developed “Nano Cotton” Mobile App



## Personnel

### Retirement

Shri M. Mohan, Chief Technical Officer, PME Cell, TTD superannuated on May 31, 2017.

### Transfers

- Shri R. G. Matel, Lower Division Clerk transferred from Ginning Training Centre of CIRCOT, Nagpur to Quality Evaluation Unit, Guntur with effect from May 16, 2017
- Shri B. R. Pawar, Astt. Chief Technical Officer was transferred from TTD to QEID, Mumbai with effect from May 18, 2017
- Shri S. Banerjee, Astt. Chief Technical Officer was transferred to PME Cell, with effect from May 18, 2017
- Shri N. D. Kambli, Technical Officer was transferred to Technology Transfer Division, Mumbai with effect from May 23, 2017
- Shri M. B. Patel, Sr. Technical Officer was transferred from ICAR-CIRCOT Regional Unit Surat to CIRCOT Headquarters, Mumbai with effect from May 30, 2017
- Shri M. G. Sosa, Skilled Supporting Staff transferred from ICAR-CIRCOT Regional Unit Surat to Headquarters, Mumbai with effect from May 30, 2017
- Shri A. F. Gudadur, Skilled Supporting Staff transferred from ICAR-CIRCOT Regional Unit Dharwad to Headquarters, Mumbai with effect from May 30, 2017



## Proposed activities for the year 2017-18

### Skill Development Programmes for the year 2017-18

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

#### Meet:

Seventh Asian Cotton Research and Development Network (ACRDN) meet on “*Production of Quality Fibre and Doubling Cotton Farmers Income*” is scheduled to be organised during September 15-17, 2017 at Hotel Le Meridian, Nagpur.

**Seventh Asian  
Cotton Research  
and Development  
Network (ACRDN)  
Meeting**  
September 15-17, 2017

**ACRDN  
Meeting**

**Venue:**  
Hotel  
Le Méridien  
Nagpur,  
Maharashtra,  
India

*Organized by:*



**Indian Society for Cotton Improvement (ISCI)  
Mumbai, India**

*In collaboration with:*



**International Cotton Advisory Committee (ICAC)  
Washington, DC, USA**



**ICAR-Central Institute for Cotton Research (CICR)  
Nagpur, India**



**ICAR-Central Institute for Research on Cotton  
Technology (CIRCOT), Mumbai, India**

**Theme:**  
**Production of  
Quality Fibre  
and  
Doubling Cotton  
Farmers' Income**





Cotton Crop



Green Cotton Boll



Open Cotton Boll



Bt Detection Kit

## About the Meeting

The Indian Society for Cotton Improvement (ISCI) Mumbai, is organizing the 7<sup>th</sup> Asian Cotton Research and Development Network meeting at Nagpur, Maharashtra, India during September 15-17, 2017. This meeting is being organized in collaboration with International Cotton Advisory Committee (ICAC), ICAR-Central Institute for Cotton Research (CICR), Nagpur & ICAR-Central Institute for Research on Cotton Technology (CIRCOT), Mumbai. The theme of the network meeting is:

### PRODUCTION OF QUALITY FIBRE & DOUBLING COTTON FARMERS' INCOME

Globally, around 23 million metric tonnes of cotton is produced from about 30 million hectares. The Asian region is the largest hub for cotton production, trade and use. Together the countries in this region account for almost two third of area under cotton and more importantly they consume 77% of the global cotton produced. India, China, Pakistan & Uzbekistan are the major cotton growing countries in the region whereas China, India, Bangladesh, Pakistan, Vietnam and Indonesia are the major cotton consuming countries. The cotton value chain is a major employment generator and shapes the economy of several Asian countries. Asia is emerging as an undisputed hub of textile and garment industry accounting for 65% of total yarn production, around 70% of world fabric manufacture and 65% of apparel production.

Despite geographical and political diversity among the cotton growing countries of Asia, the nations have several similarities and face common challenges. These include, predominance of small holder production systems, low level of mechanization, vulnerability to climate change/variability, rising production costs cutting profit margins, key pests developing resistance to major insecticides, soil degradation, dwindling agro-biodiversity, restricted access to novel technologies due to IPR related issues, more moisture & trash content and poor fibre quality, lack of appropriate ginning technology to name a few.

The International Cotton Advisory Committee (ICAC) established the Asian Cotton Research and Development Network (ACRDN) in 1999 to foster regional co-operation in Cotton Research across Asian countries. Till date six meetings of this network have been held viz. Pakistan (1999), Uzbekistan (2002), India (2005), China (2008), Pakistan (2011) and Bangladesh (2014). The ACRDN meetings provide an excellent opportunity for researchers across Asian countries to assemble, interact and discuss transnational issues and evolve joint strategies to resolve emerging challenges.

This year, the ICAC has approached the Indian Society for Cotton Improvement, Mumbai, which has rich experience of successfully organizing various international events like Cotton Genome Conference (2004), International Conference on Natural Fibres (2009) and World Cotton Research Conference-5 (2011), to take lead in organization of 7<sup>th</sup> ACRDN Meeting. Accordingly, the Society is organizing the 7<sup>th</sup> ACRDN Meeting during September 15-17, 2017 at Hotel Le Méridien at Nagpur (Maharashtra, India).



Ginning Industry



Cotton Bales

## Invitation for Participation

The Organizing Committee of the Indian Society for Cotton Improvement (ISCI), cordially invites you for the 7<sup>th</sup> ACRDN meeting and seek your active participation in the interactive technical sessions. Lead speakers for contributory thematic papers from each country will be identified by the organizing committee. Additional voluntary abstracts on the topics outlined in the technical sessions are solicited from the participants. The ISCI will seek full length papers from shortlisted abstracts for inclusion in the special issue of **Cotton Research Journal** published by ISCI and the papers will also be made available on the **ICAC web site**.



**Nanocellulose Pilot Plant at ICAR-CIRCOT, Mumbai**

## Programme Outline

- Eight technical sessions
- Four plenary talks
- Field and laboratory visits to ICAR-CICR and ICAR-CIRCOT- Ginning Training Centre
- Post meeting tour to
  - : Seed Industry Farms,
  - : Ginning, Spinning and Textile Industry,
  - : State-of-the-art Textile Machinery manufacturing facilities



**Nanocellulose Based Products**

## Technical Session Themes

- Global Best Practices for High Cotton Yields
- Proposed Best Practices for Higher Cotton Yields in Asia
- Quality Fibre Production in Asia
- Cotton Viral Diseases and Whiteflies
- Cotton Bollworms-Integrated Pest Management/Insecticide Resistance Management
- CRISPR CAS-9 and Ideas for cotton
- Cotton Mechanization in Asia
- Technological Advances in Processing

All the technical sessions will be interactive and conducted in a dynamic mode. A team leader will be identified for each session and his/her talk will be followed by country reports on the topic. Speakers will also consolidate essential points submitted by researchers through their abstracts. Being host country, India will be represented by a maximum of two speakers in each session. The team leader will ensure that the topic and actionable recommendations emanated from the session are debated and finalized. English will be the official language of the meeting.



**Lilliput Gin**

**Cotton Lint Opener**



**कण पट्ट  
Particle Board**

**Briquettes**

**Particle Boards and Pellets From Cotton Stalks**



**Cotton Spinning Mill**



**ICAR-CIRCOT, Mumbai.  
Antibacterial Cotton Bedsheets**

## Call for Abstracts

The Organizing Committee of ISCI invites abstracts from prospective participants on any research and developmental issue broadly conforming to the themes of technical sessions outlined above. The abstract of contributory and voluntary papers must be restricted to 300 words in **Times New Roman font of size 12**.

Authors are requested to forward their abstracts through electronic mail to **Dr. M. V. Venugopalan, E-mail: [mvvenugopalan@gmail.com](mailto:mvvenugopalan@gmail.com)**

The last date for receipt of abstract is **July 15, 2017**.

All the selected abstracts will be published in the **Book of Abstracts** of 7<sup>th</sup> ACRDN meeting and all the registered participants will receive a copy of the book.

## Important Deadlines

- Last date for submission of Abstracts : **July 15, 2017**
- Last date for submission of selected full length papers: **August 10, 2017**
- Last date for Registration : **August 20, 2017**
- Meeting dates : **September 15-17, 2017**

## Registration and Fee

All the participants are requested to kindly mail/fax/speed-post/courier the duly filled Registration form to:

**Dr. P. G. Patil, Organizing Secretary, 7<sup>th</sup> ACRDN meeting**

C/o. ICAR-Central Institute for Research on Cotton Technology, Adenwala Road, Matunga, Mumbai, E-mail: [acrdn.nagpur@gmail.com](mailto:acrdn.nagpur@gmail.com),

Fax: +91 22 24157239, 24130835 on or before **August 20, 2017**. The registration form is available with this circular or may be downloaded from [www.isci.org.in](http://www.isci.org.in), [www.circot.res.in](http://www.circot.res.in) and <http://www.cicr.org.in/>

**Registration fees:**

Participant Category	Amount	Accompanying Member
Foreign Delegates	USD 300	USD 150
ISCI Members	₹ 5,000	₹ 2,500
Other Indian Delegates	₹ 7,000	₹ 3,500

The registration fee for delegates is to be paid in advance in the following bank account of ISCI, preferably by electronic transfer.

Bank Account Number	36959751825
Beneficiary Name	INDIAN SOCIETY FOR COTTON IMPROVEMENT
Name of Bank & Branch	State Bank of India, Commercial Branch, Dadar
IFSC Code	SBIN0004114
SWIFT Code	SBININBB355

**Registration fee includes:** Registration kit, Book of abstracts, access to all scientific sessions, lunches and sponsored dinners and local visits.

**Confirmation:** The registration will be completed and confirmed by E-mail upon receipt of payment. However, delegates are requested to kindly produce the confirmation letter at the registration desk.

## Meeting Venue:

The 7<sup>th</sup> ACRDN meeting will be held at:

**Hotel Le Méridien, Nagpur**

Opposite MIHAN Flyover, Wardha Road, Nagpur - 441 108, Maharashtra, India

Telephone: +91 7103 663 333

Fax : +91 7103 663 300

Website: [www.lemeridien.com/nagpur](http://www.lemeridien.com/nagpur)

## Contact Person:

**Mr. Hemant Telmore**

Mobile: +91 7720033423,

**E-mail:**

[hemant.telmore@lemeridien.com](mailto:hemant.telmore@lemeridien.com)

The Hotel Le Méridien is located at a distance of 7 km from Dr. Babasaheb Ambedkar International Airport, Nagpur and 14 km from Nagpur Railway Station.

## Hotel Room Tariff

Room Type	Single Rate, ₹ CPAI	Double Rate, ₹ CPAI
Deluxe	4,750	5,750



Paithani Saree (Fabric)



Handloom Fabric

**Cancellation Policy:** Once registered, if delegates cancel their registration, a cancellation fee of **20%** of registration charges will be retained as processing fees and rest will be refunded. No refund will be paid for cancellation on and after **August 21, 2017**.

## Accommodation

Sufficient number of rooms on single and double occupancy basis have been blocked at Hotel Le Méridien, the venue of the meeting. Participants are requested to preferably book the accommodation at the hotel on payment basis at a discounted tariff rate made available. (Please contact Hotel for booking). For any enquiry with regard to accommodation you may contact Er. G. Majumdar, Chairman Accommodation Committee at E-mail: [gama62@rediffmail.com](mailto:gama62@rediffmail.com), Mobile Number: +91 96 5772 6509. Pickup and drop from Nagpur airport will be facilitated by the hotel.

## India

India is a 5,000-year old ancient civilization with a population of more than 1.2 billion people, 325 spoken languages 1,652 dialects, world's largest democracy and the second fastest growing economy in the world. Lonely Planet TV channel selected India amongst top five destinations in the world. Rated as the most preferred holiday destination by Conde Nast Traveller, India is home to the most popular of the "seven new wonders of the world" (The Taj Mahal). In length, India measures 3,200 kms, from the splendid Himalayan ranges in the North to the confluence of three great water bodies - the Indian Ocean, Bay of Bengal and Arabian Sea, at its southern tip. India has over 70 national parks and 400 wildlife sanctuaries, inhabited by a great range of birds and animals - from the famous Bengal Tiger and one-horned rhinoceros to the partly-domesticated Mithun of Arunachal Pradesh, snow-leopards, elephants, deer, peacocks and the Great Indian Bustard.

## Nagpur

Nagpur is the winter capital, a sprawling metropolis, the third largest city of the Indian state of Maharashtra after Mumbai and Pune and the largest city of central India. Nagpur is also known for Deekshabhoomi, the largest hollow stupa among all Buddhist stupas in the world. Nagpur has been identified as the best city in India by topping the liveability, greenery, public transport, and health care indices. It is famous for Nagpur oranges and is known as the "Orange City" for being a major trade centre of oranges cultivated in the region. Nagpur is also known as the Tiger capital of India. Several National parks are located around Nagpur.

Nagpur is about 700 km away from Mumbai and New Delhi and is well connected by air and many domestic flights operate daily. During the month of September, the maximum and minimum temperatures would be around 32°C and 24°C, respectively. Light showers are also experienced. No need of warm clothings.



Taj Mahal, Agra



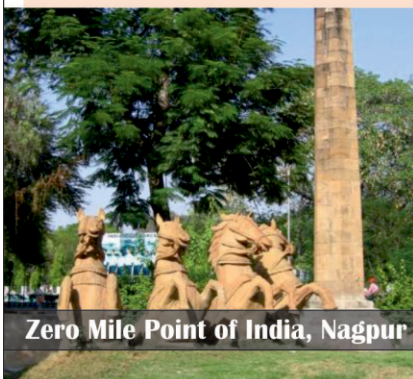
Gateway of India, Mumbai



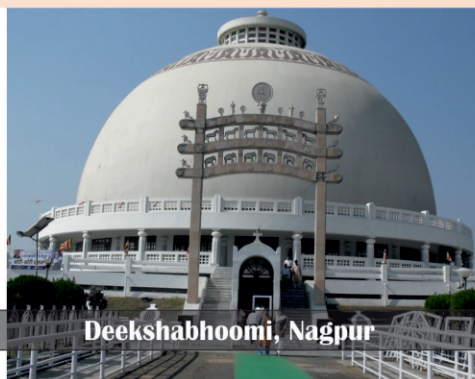
Tadoba Tiger Reserve, Nagpur



Sevagram, Wardha



Zero Mile Point of India, Nagpur



Deekshabhoomi, Nagpur



Nagpur Oranges



ICAR-CICR, Nagpur



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Locations of ICAR-CICR, ICAR-CIRCOT and their Regional Stations in India



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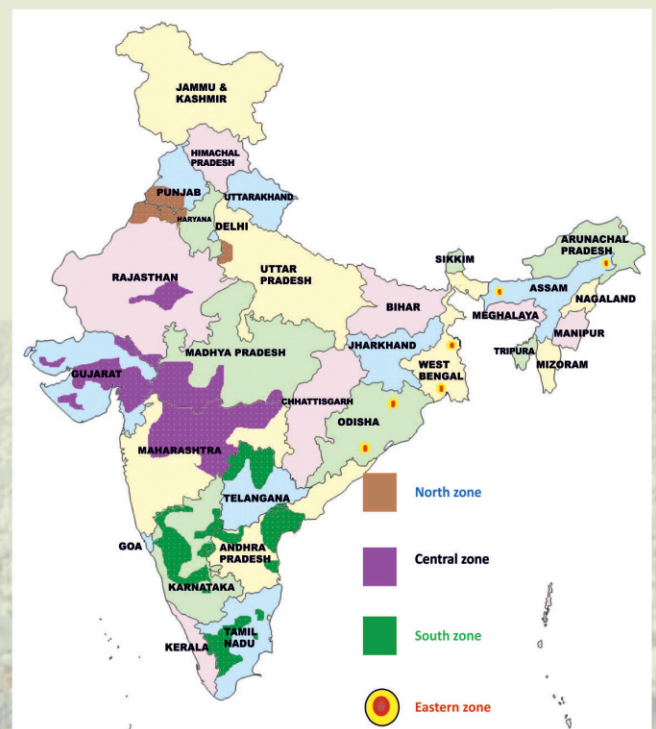
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Cotton Growing Regions in India



## Indian Society for Cotton Improvement (ISCI)

(Regd. No. BOM/1956/75 GBBSD of 20.08.1975)

www.isci.org.in

Indian Society for Cotton Improvement, a registered society of cotton scientists, farmers, traders and technocrats was founded in the year 1974, with broad objective of promoting cotton production and utilization.

The main activities of the Society are to organise seminars/ conferences on various topics related to cotton research & development and over the years organised more than 25 International and National seminars, prominent amongst them are the International Cotton Genome Conference (2004), International Conference on Natural Fibres (2009) and World Cotton Research Conference-5 (2011).

Besides these, the Society also awards Cotton Scientists in recognition of their research contribution. The Society also publishes a research journal called Cotton Research Journal and also publishes books on various topics related to cotton. The society has around 500 members representing various disciplines of cotton.



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