



A Monthly Insight into the ICAR-CIRCOT

e - News Letter

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Director's Desk...

The cotton output is estimated at 341 lakh bales for the season 2015-16 as against the initial estimate of 384 lakh bales by Cotton Association of India. The output declined by 18 per cent in central zone and by 22 per cent in the southern zone. The cotton output dropped by 40-45 per cent in two states of Punjab and Haryana in the northern Zone. The monsoon is expected to be normal this year and despite the reduction in the acreage under cotton, higher yield are expected to boost the crop.

India is projected to be the largest producer and second largest consumer of cotton in the season 2016-17. World cotton consumption is expected to reach around 23.9 million tonnes during 2016-17. China, India and Pakistan will remain the major consumers of the cotton accounting for 62 per cent of the world cotton mill use. The global Cotton production is forecasted at around 22.6 million tonnes during 2016-17, a benign increase after a decline of around 16 per cent during 2015-16.

With the consumption exceeding production, the global ending stocks are expected to decrease for the second consecutive year. All the reduction in the global stocks is expected to occur in China as the massive consumption needs of its industries are met through the domestic procurement from its Reserve system. The world trade is expected to decline to 7.2 million tonnes as a result of the anticipated reduction in the import demand of Pakistan owing to normal cotton growing condition. Bangladesh and Vietnam will be the largest importers of cotton in the 2016-17 season followed by China.

P. G. Patil



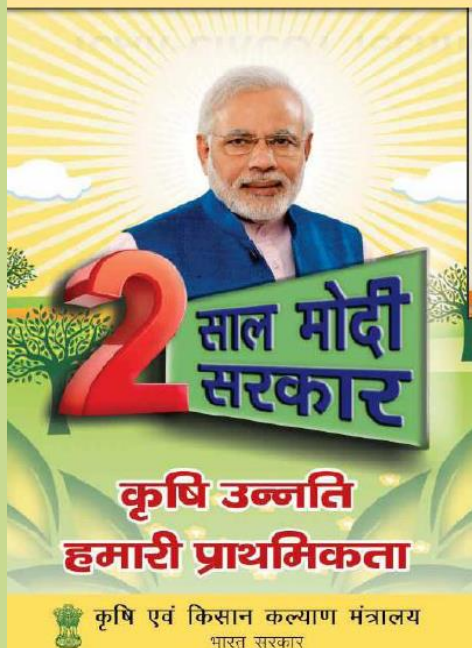
ICAR-CIRCOT, Mumbai



ISO: 9001:2008

ICAR-CIRCOT Technologies mentioned in book published by Ministry of Agriculture & Farmer's Welfare on Achievements of the Government

ICAR-CIRCOT Technology in "2 साल मोदी सरकार" <http://www.icar.org.in/z>



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Rubber Dams for Water Harvesting in Watersheds

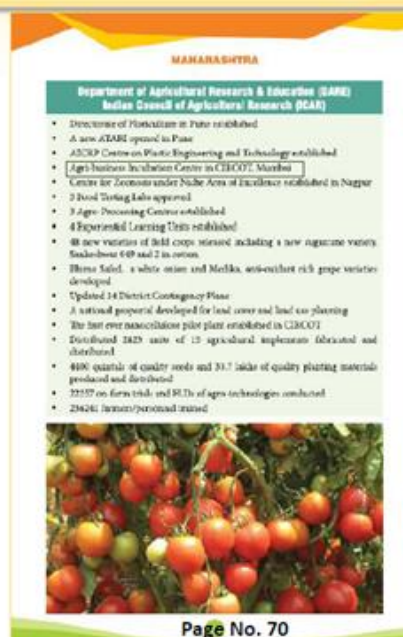
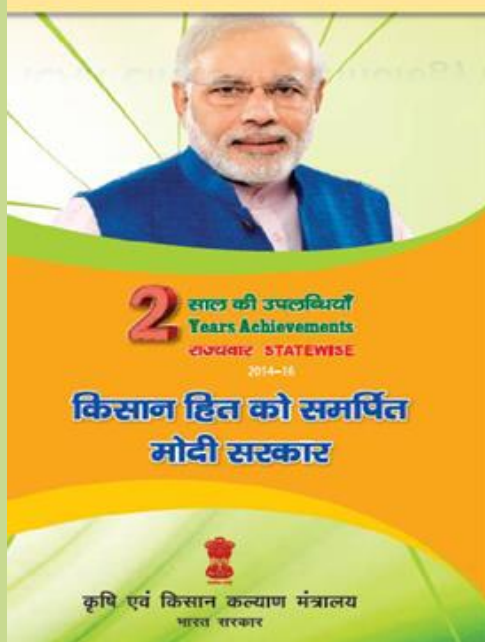
- ICAR flexi-check dam is an inflatable structure built across a stream for water conservation, flood control, sediment flushing and regulating flow of water.
- It can be occasionally deflated during flood/high runoff to flush out sediment.
- Facilitates irrigation in critical stage and ground water recharging.
- Low material and fabrication cost.



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ICAR-CIRCOT Technology in "किसान हित को समर्पित मोदी सरकार" <http://www.icar.org.in/>



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Secretary, DARE and DG, ICAR Visits CIRCOT

Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR visits CIRCOT

Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR visited the Institute on May 6th, 2016. In his maiden visit, he urged the scientists to work hard so that the institute should emerge as a centre of excellence for cotton and other natural fibres. He also expressed that the institute should envision the development of technologies that are economically feasible & sustainable, and also use incubation facility to graduate the incubatees to develop promising and viable start-ups. Besides bringing out

research publications with high citation index, he emphasized on the self-performance assessment of the institute in terms of no. of technologies developed & licensed to stakeholders. He visited the nanocellulose pilot plant, exhibition centre of the Institute and interacted with all the staff of the Institute. During his addressing, he congratulated all the staff for being a part of the glorious history of the Institute, which is marching towards its centenary year celebrations in 2024. Two publications were released during the occasion.



Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR, releasing the publications



Visit of Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR to Exhibition cum visitors room of CIRCOT

International Training Programme at Burkina Faso, Africa

Skill development-cum-training programme on Post-harvest management of cotton and value addition to crop residue was organized at Cotton House, Ouagadougou, Burkina Faso during May 16-17, 2016. This training was conducted under the Cotton Technical Assistance Programme (TAP) for Africa with aim to increase the critical mass of government R&D and develop extension professionals with enhanced capacity for post-harvest management and utilization of crop residues in Burkina Faso. Dr. S. K. Shukla and Dr. C. Sundaramoorthy, Senior Scientists, ICAR-CIRCOT, conducted and coordinated the training programme for a group of 17 professionals from Burkina Faso

with diverse background and from different organizations viz. government and private sector, policy makers, ginners and entrepreneurs attended the Programme. A country specific manual on scientific post-harvest management of cotton was developed in French language and distributed to each delegates. One day field visit was organized to a ginning industry (FASO cotton) to give industrial exposure to the participants.

A Team of Scientists visited Benin, Africa

An ICAR-CIRCOT team comprising of Dr. S. K. Shukla and Dr. C. Sundaramoorthy visited Benin, Africa during May 18-24, 2016 to monitor the Erection and Commissioning of facilities for establishment of "Regional Knowledge cum Training Centre for Post-

harvest & Ginning Technology” at Bohicon, Benin under Cotton TAP for Africa. The team held discussions with Dr. David Y. Arodokoun, Director General, Institute National des Recherches Agricoles du Benin (INRAB), Cotonou and his team during May 19-23, 2016 on the progress of the site work and related issues. The CIRCOT officials visited installation site at Bohicon and monitor the progress of work and also met the

Director and its Engineers of Society of Benin of Electrical Engineering (SBEE), Bohicon related to laying of 20 kV electric line at site. The CIRCOT delegation also met Dr Yacoubou Toure Idrissou, Chief of Staff, Minister’s Officer, Ministry of Agriculture, republic of Benin to apprise the issues regarding erection and commissioning of regional Knowledge cum Training Centre for Post-harvest & Ginning Technology at Benin.



Group photo of participants of In-country training programme at Burkina Faso with CIRCOT experts



Dr. S. K. Shukla and Dr. C. Sundaramoorthy discussing with INRAB officials in Benin



Actual photo of Regional Knowledge Cluster cum Training Centre, Bohicon, Benin being established by ICAR-CIRCOT, Mumbai



Dr. S. K. Shukla, Senior Scientist, monitoring the progress of work at site in Benin

Technology Insight

Cationization of Cotton Fabric for Salt Free Dyeing: Reactive dyes are widely used for dyeing cotton materials due to their brilliant colours and good fastness properties. During the process of dyeing,

large amount of inorganic electrolytes, especially sodium chloride and sodium sulfate are added for better dye exhaustion. As a result, discharge effluents are heavily loaded with

electrolytes which require sophisticated treatment processes to remove them. To overcome this problem, quaternary ammonium compounds were used for cationization of cotton fabric so that salt free dyeing with reactive dyes can be carried out. The k/s values of cationized cotton fabric dyed without salt showed significantly better shade than conventionally dyed fabric.



Cotton fabrics dyed in presence of salt



Cotton fabrics dyed without salt

Events

GTC, Nagpur organized awareness programme for Farmers

Ginning Training Centre, ICAR-CIRCOT, Nagpur, organized an awareness cum demonstration program on 20th May 2016, for preparation of compost and oyster mushroom production using cotton stalks at Godavari village, Ashti taluk, Wardha Dist., Maharashtra. Twenty five farmers participated in the program, Mr. Y. N.

Kabra, a progressive farmer from Godavari village gave the welcome address and Dr. V. Mageshwaran, and Er. Varsha Satankar, Scientists delivered the lecture and demonstrated for preparation of mushroom bed and guided for mushroom cultivation.



Dr. V. Mageshwaran, Scientist, addressing the participants



Demonstration of bed preparation for oyster mushroom cultivation at Godavari village, District Wardha (MS)

Madhya Pradesh Farmers Visit GTC Nagpur

Farmers awareness programme was organized at Ginning Training Centre (GTC) Nagpur on May 3, 2016, under Organic Farming Incentives Plan. Seventy-One farmers from different villages of Dist.

Balaghat, M.P. participated in the programme. Dr. S. K. Shukla, Senior Scientist & Officer In-charge, Nagpur, briefed them about research activities and stated about the methods for collection and utilization of Cotton stalks and other Agro residues to increase the farm income. Dr. V. Mageshwaran, scientist explained the methods for preparation of bio enriched compost from cotton stalks and other agro-residues. Farmers were also shown live demonstration of fibre testing, particle board preparation and ginning and pressing operations.



Group photo: Farmers awareness meet at GTC Nagpur

Nanocellulose Application Trial in Spinning Mill

An Industrial trial on *nanocellulose application in textile-yarn spinning* was undertaken at Coimbatore spinning mill. This trial was carried out to evaluate the use of nanocellulose suspension as an alternative for mixing oil that is conventionally used to spray on cotton fibres (500 kg of lint) for enhanced fibre-fibre cohesion and reduced static charge accumulation.



Photograph showing nanocellulose application trial in a spinning mill

Meeting of CRP Projects

Dr. P. G. Patil, Director, ICAR-CIRCOT attended a meeting chaired by Dr. K. Alagusundaram, DDG (Engg.) held at New Delhi on 10th May, 2016 to discuss about the CRP projects and various Scientific, Technical, Financial and Administrative issues. ADG (Engg.), ADG (PE), Directors of Engineering Institutes, Project coordinators and PIs of CRP projects of Engineering SMD attended the meeting. DDG emphasized on efforts to get externally funded projects, presence of ADG in IMC/RAC meetings, and advocated about strengthening of Nagpur and Coimbatore stations, timely issue of proceedings of RAC and IMC, publications of papers in ISAE Journals, suggestion for agriculture technology foresight, incubation centres etc., New Delhi.

ISO Internal Auditing

Internal auditing for ISO 9001:2008 of all the four divisions was carried out during the

month to check the proper implementation and take the necessary corrective measures before upcoming external audit during the next month.

Aadhar Enabled Biometric Attendance System

AADHAR based biometric attendance system is to be implemented in the Institute with the effect from 1st June, 2016. Dr. M. V. Vivekanandan In-charge, AKMU gave a presentation on its function and procedure to be used for recording the attendance explaining various advantages of the system.

Swachha Bharat Abhiyan Pakhwara

Swachha Bharat Abhiyan Pakhwara (Clean India Campaign Fortnight) was observed in the Institute during May 16-30, 2016. On the first day, Dr. (Smt.) Sujata Saxena, Director In-Charge administered the oath to all the staff to maintain cleanliness of their working places and residential premises. A series of events were organized during the fortnight for generating awareness about the programme. A special lecture (on 24th May 2016) on “*Swachha Bharat Abhiyan Nagariko ki Jimmedari*” was arranged on by Shri. Jayanta Joshi, Manager Glasco Fermentation, Thane. The importance of cleanliness and the waste disposal techniques for in house composting at domestic level was demonstrated. An essay competition on “*Swachha Bharat Abhiyan*” was conducted on 25th May 2016 in which CIRCOT staff participated enthusiastically.



CIRCOT staff taking cleanliness oath during Swachha Bharat Pakhwara

A drama on the state of cleanliness affairs in Mumbai city was staged by professional “Rangkarmi” group for creating awareness among the CIRCOT staff members. After the drama, three lectures were also arranged to create the awareness about cleanliness in the Institute. The speakers included prominent personality of Matunga, Corporator Smt. Naina Seth, Mr. Tanaji Ghagh of BMC and Mr. Vikram Vaid. Dr. P.G. Patil, Director CIRCOT, welcomed the guests and delivered the introductory remarks about swachha bharat Abhiyan pakhwara. All the three speakers highlighted about the importance of segregation of the waste for its easy recycling and composting to make India a clean country. On the concluding day, Smt. Kiran Joshi, Hindi Officer of the Institute delivered a talk on “*Paryavaran Ka Santulan*” and programme ended with prizes distributed to winners of essay competition by the Director.



Shri. Jayanta Joshi, Manager Glasco Fermentation, Thane talking about waste disposal



Drama by rangkarmi group performing stage show to create awareness of cleanliness among staff members



Smt. Naina Seth, Matunga Corporator, BMC delivering lecture about cleanliness



Smt. Kiran Joshi speaking about Paryavaran ka Santulan

Steering Committee Meeting for Cotton TAP

Dr. C. Sundaramoorthy attended the 18th steering committee meeting for cotton TAP held under the chairmanship of Shri Arvind Mehta, Additional Secretary, Department of Commerce at Udyog Bhavan on 31st May 2016.

MoU Signed for Application of Nanocellulose

An MoU was signed with M/s The Kadri Mills Ltd. Coimbatore for application of nanocellulose in textile yarns spinning.

Director's Visit

Dr. P. G. Patil, Director, ICAR-CIRCOT attended the interaction meeting to discuss about severe drought and to improve the livelihood situation of farmers in Maharashtra held during 30-31 May, 2016 at Jalna, Maharashtra (under M.P.K.V. Rahuri).

Personnel

Promotion

The following staff were promoted to the next higher grade based on the DPC recommendation.

Sr. No.	Name	Post and Grade to which promoted
Laboratory Technician Grade I & II		
1	Kum. C. P. D'Souza	Sr. Technical Officer (GP Rs. 5400)
2	Shri R. S. Narkar	Sr. Technical Officer (GP Rs. 5400)
3	Shri M. G. Ambare	Technical Officer (GP Rs. 4600)
4	Shri R. P. Kadam	Sr. Technical Assistant (GP Rs. 4200)
5	Shri N. V. Bansode	Sr. Technical Officer (GP Rs. 5400)
Workshop Staff including Engineering workshop staff Grade I & II		
6	Shri T. Venugopal	Sr. Technical Officer (GP Rs. 5400)
7	Shri S. N. Patil	Technical Officer (GP Rs. 4600)
Library Information and Documentation Grade II		
8	Smt P. R. Mhatre	Sr. Technical Officer (GP Rs. 5400)
9	Smt M. P. Kambale	Sr. Technical Assistant (GP Rs. 4200)

Transfers/ Resignation

- Shri Manik Bhowmick, Scientist (Textile Manufacture) was transferred to ICAR-NIRJAFT, Kolkata w.e.f. May 13, 2016.
- Shri S. Mukundan, Assistant Chief Technical Officer transferred from CIRCOT regional unit Guntur to CIRCOT regional unit at Coimbatore with w.e.f. May 03, 2016.
- Dr. Deepak Meena, Technical Assistant working in library resigned from service on May 09, 2016.

Upcoming Events

Special Training programme for the year 2016-17 at ICAR-CIRCOT, Mumbai

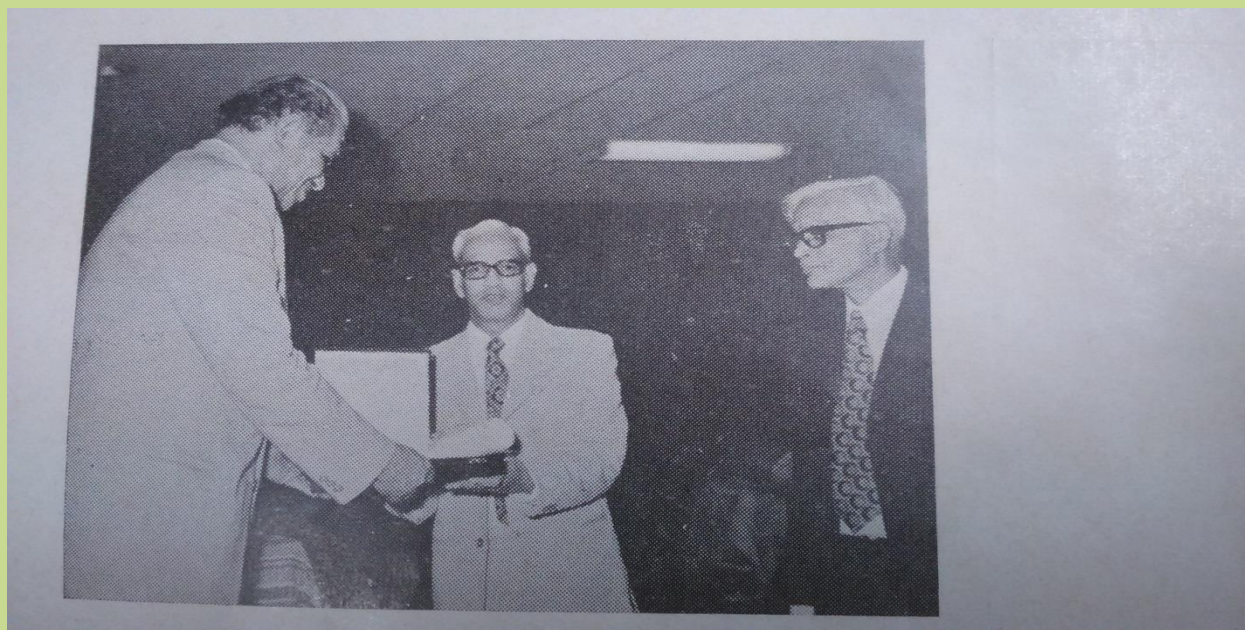
Sr. No.		Days	Duration	Fees
1	Electrospinning Techniques & their applications	3	11– 13 July, 2016	Rs. 10,000/- + service tax
2	Value Addition to Cottonseed	3	29 Aug – 1Sep, 2016	Rs. 12,000/- + service tax
3	Quality Evaluation & Spinning performance of Indian Cottons using Advanced Techniques	3	20– 22 September, 2016	Rs. 10,000/- + service tax
4	Fibre & Yarn Quality Management in Spinning	3	5 – 7 October, 2016	Rs. 10,000/- + service tax
5	Basic Statistical Techniques for Textile Research	3	15 – 17 November, 2016	Rs. 6,000/- + service tax
6	Characterization of Materials using X-Ray Diffractometer	3	19– 21December, 2016	Rs. 30,000/-+ service tax
7	Advances in Microscopy	3	16– 18 January, 2017	Rs. 15,000/- + service tax
8	Nanotechnology and its application in Agriculture	5	6 – 10 February, 2017	Rs. 25,000/- + service tax
9	Spectroscopic and Chromatographic Techniques for Material Characterization	3	21 -24 February, 2017	Rs. 15,000/- + service tax
10	Instrumental Evaluation of Clothing Comfort	5	6-9 March, 2017	Rs. 50,000/-+ service tax

Contact detail

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Details are available at our Website: www.circot.res.in



Dr. V. Sundaram, Former Director of ICAR- CIRCOT, receiving the Award from Shri. L. K. Jha, Governor of Jammu and Kashmir. Dr. K.V. Srinivasan, Project co-ordinator, AICCIP is also seen (1975-76)



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