

COTTON Innovate



Weekly Newsletter from Central Institute for Cotton Research, Nagpur

Visit : www.cicr.org.in

Issue : 5, Volume :12, Dec. 29 , 2013 – Jan. 4, 2014

RESEARCH ROUND-UP

Additional harvest (seed cotton) obtained under cotton – wheat relay system at CICR, Regional Station, Sirsa

The experiment on cotton-wheat relay system is under progress at CICR, Regional Station, Sirsa. The experiment was initiated with sowing of short (MRCH-6025) and long duration (MRCH-7361) Bt cotton hybrids. MRCH-6025 being early was picked in last week of October (seed cotton yield 11.42 Q/ha) and normal sowing of wheat was done on 21st Nov.2013. With long duration hybrid (MRCH-7361) there were two treatments viz. wheat sown in standing cotton and late sown wheat after harvesting of this long duration hybrid (MRCH-7361). In long duration hybrid (MRCH-7361), the yield obtained up to the normal sowing of wheat (21st Nov,2013) was 20.55q/ha and the additional seed cotton picked from the unopened bolls of this hybrid was 2.45q/ha till 25th Dec. Thus the total harvest of treatment where wheat was sown in standing cotton has been (20.55q+2.45q) 23.00q/ha and cotton stalks are still in field. In the second treatment with MRCH-7361 the cotton stalk have been uprooted for late sowing of wheat variety on 26th Dec., 2013. The results will help in a valid comparison of timely sown wheat (normal) after harvesting of short duration cotton hybrid (MRCH-6025), wheat sown in standing cotton (MRCH-7361) and late sown wheat after harvesting of long duration hybrid (MRCH-7361). The economics and cost of production both for cotton as well as wheat will be calculated.



Normal sown wheat after harvesting of cotton stalks (DOS-21.11.2013)



Relay sowing of wheat in cotton (DOS-21.11.2013)

SCIENTIFIC TALK



Dr. A. Sampath kumar, Scientist, Plant Pathology, gave a library Club talk on “**Virus Induced Gene Silencing (VIGS) in Plants**” on 4th January, 2014. He explained the basics of VIGS and its practical implications. Gene silencing can be a transcriptional gene silencing (TGS) or a post-transcriptional gene silencing (PTGS). In TGS, DNA methylation occurs and prevents transcription. In PTGS, two methods are available: 1. RNA interference (RNAi) and 2. Virus induced gene silencing. VIGS utilizes the endogenous plant defense mechanism against virus infection and plants infected by the virus degrade viral genome. Three steps are involved in VIGS: 1. viral genomes engineering to incorporate the host gene fragments that are to be silenced, 2. Infection in the suitable plant hosts and 3. Silencing of the target gene as part of plant defence mechanism against virus infection. It is a high throughput technique and can be applied to mature plants without generating stable mutants where, the mutation may be lethal in sexual reproduction of the plants. Moreover, Full-length gene is not necessary here and can be performed without

transformation protocol which is necessary for RNAi. Some disadvantages of VIGS as lack of universal vectors for all the plant species, silencing is not possible during seed germination and sometimes its non-stable nature were also discussed.



Dr. Santosh, H. B., Scientist (Plant Breeding) presented wild idea ‘**Hunt the Hunter**’ on 4th January, 2014, under the aegis of Innovation Club of CICR, Nagpur.



FAREWELL

Dr. Jagvir Singh, Principal Scientist, Soil Science and Agricultural Chemistry, was accorded warm farewell by Institute Research Council and the Staff Welfare Club on Jan.1, 2014 and by Division of Crop Production on Jan.2, 2014. In IRC meeting Dr. Jagvir Singh presented brief review of research work carried by him in his entire career at CICR, Nagpur. His research work as scientist and his qualities as excellent person were lauded by the Director and scientists of CICR, Nagpur.



Smt Savitri Devi, Temporary Status Labourer at CICR, Regional Station, Sirsa was accorded warm farewell on Dec. 31, 2013 on her superannuation. She had joined Central Institute for Cotton Research, Regional Station as casual labour on 1st August, 1992. Dr Monga, Head, CICR, RS, Sirsa and all the staff members working at the Regional Station, wished her good health and better life after her superannuation in a tea party organized in honour of Smt Savitri Devi on Dec.31,2013.

NEW YEAR CELEBRATIONS

Staff Welfare Club of CICR, Nagpur celebrated the beginning of 2014 with music, games and dance. Dr. G. Balasubramani, coordinated the programme. Dr. K. R. Kranthi, Director, CICR, presided over the function.



Orange City to host **Krishi Vasant...**



Dr S K Goel addressing officers during the meeting to review preparation for the mega agricultural exhibition.

(Contd from page 1)

level Steering Committee that got the mandate to organise the exhibition. Various sub-committees have been formed to oversee water, parking, lodging, and other arrangements.

The thrust of agricultural exhibition is on rain fed farming which is mainstay of Indian agriculture. As the many experiments and new techniques are evolved through the fair the Government aims to reach out to farmers in how to go for integrated crop pattern, irrigation, mechanisation of agriculture, increasing role of women in agriculture and also that of youth, agriculture production, marketing and management. There are several discussion organised at the exhibition including one of setting-up chain for promoting exports of agricultural goods, farming, horticulture and animal husbandry, sericulture, poultry farming, fisheries etc. Experts from various fields would guide the farmers and entrepreneurs on associated agriculture topics. There is also animal fair to provide peep in best of breed available in country.

The Union Agriculture Ministry has also roped in Confederation of Indian Industry (CII) for presentation about the exhibition while State Agriculture Commissioner is Nodal Officer. During the five-day event, visitors can tear stores of success achieved by farmers and

entrepreneurs. Another advantage of exhibition is it bring on one platform Government, farmers, women, youth and researcher and it benefits would augur in coming years.

Nagpur was chosen owing to its central location and easy accessibility by air, land and rail. To accommodate the large number of visitors, participants about 125 multipurpose halls have been taken on hire by the administration to house farmers. Buses would be available to ferry farmers free of cost to venue and back home. Similarly buses would also be available for citizens wanting to visit the agriculture exhibition.

The exhibition would have on display the progress and prowess that the field of agriculture during last 50-years. The total area for stall and other related activities is about 19,000 sq.ft. Since currently the fisheries has good days, farmers would be provide latest updates in the field. The symposium venue has seating capacity of nearly 800 farmers and is centrally air cooled. Further to ensure proper dispensation of knowledge, in the pondal farmers can be divided in four groups of 200 each and they in turn would be briefed by experts.

For cultural programme separate arrangement with seating capacity of 5,000 people would also be there. Food zone court would in place at two places and for parking a space of 1,000 acres

Live feed on Internet

JOINING the information technology bandwagon, Agriculture Department has finalised plans to broadcast live the proceedings of biggest agriculture exhibition through the Internet. The plan is to ensure that experts opinion, deliberations can be seen at every tehsil of Maharashtra. For it at every tehsil headquarters 500 buses are kept ready to transport the farmers and going further experts would disseminate on spot translation.

is earmarked. Public Health Department (PHC) would also put-up their stalls and South Central Zone Cultural Centre (SCZCC) would present entertainment programme during evening.

The review meeting was attended by Deputy Commissioner S G Gautam, Additional Municipal Commissioner Henant Pawar, Deputy Commissioner (NMC) Pramod Bhusari, Additional Collector Asha Patil, Deputy Director Health Service, Dr Prabhakar Das, Director Divisional Agriculture Dr V N Ghavre, Deputy Director Ravindra Manebore, District Agriculture Officer Dr Archana Kadu, and others department officers.

Orange City to host **Krishi Vasant agri expo from Feb 9**

■ Staff Reporter

NAGPUR is hosting a mega agricultural exhibition from February 9 to 13 and President of India Pranab Mukherjee is slated to inaugurate it at Panjri premises of Central Institute of Cotton Research (CICR) on Wardha Road. Union Agriculture Minister Sharad Pawar who has conceptualised the mega exhibition is also attending the inaugural ceremony.

The exhibition is organised by Union Ministry of Agriculture in collaboration with State Government to commemorate birth centenary of former Chief Minister Vasantrao Naik. For success of the mega event about 1,000 employees and officers have been drafted from various parts of region. The total budget for the event is in region of Rs. 25 for just exhibition while Rs. 20 crore is for lodging and boarding. Each of the State Government Department has kept aside 1 % of its budgeted revenue for the exhibition.

The exhibition is one of the biggest ever organised in this part of the country and it would cover an area of 45 acres in which about 400 stalls are planned. Companies from each state that are engaged in agriculture are expected to erect their stalls and hundreds of farmers would take home knowledge about latest practices, new technique and other things. As per estimate about 50,000 people, mostly farmers are expected to visit the exhibition said Additional Chief Secretary (Agriculture and Marketing) Dr S K Goel after taking a review of the preparations at Divisional Commissionerate.

As the footfalls at the exhibition is going to be unprecedented the Government machinery is being activated to ensure proper arrangement for visitors. State Agriculture Minister Radhakrishna Vikhe-Patil is Chairman of State

(Contd on page 2)

TIMES
City to host **biggest farm expo in Feb**
Ramu Bhagwat | TNN

Nagpur: Come February and the city will play host to the biggest ever agricultural exposition of the country, perhaps in the world. Krishi Vasant, the mega national farm exhibition is being organized from February 9 to 13 at the Central Institute of Cotton Research's sprawling complex at Panjri on the outskirts of the city. It is expected to draw lakhs of farmers from all over the country.

Brainchild of Union agriculture minister Sharad Pawar, it is being organized by Union agriculture ministry in collaboration with the state government. "Since former chief minister Vasantrao Naik's birth centenary celebrations were planned this year, I suggested the fair be named after him," said state food and civil supplies minister Anil Deshmukh. He also aggressively lobbied in for Nagpur as the venue.

MEGA FAIR

- Biggest ever farm expo in the country from Feb 9-13
- CICR, Panjri on Wardha Road will be the venue
- At least 50,000 footfalls expected daily
- Stalls in 45 acre, live demo farms in 10 acres to showcase success stories
- ₹45 crore budget for the event in which CII will provide expertise

Earlier this week state additional chief secretary SK Goel and divisional commissioner B V Gopala Reddy reviewed the preparations where officials of all depart-

हेलो नागपूर

सारांश

राष्ट्रीय कृषी प्रदर्शनाला राष्ट्रपती येणार

नागपूर : फेब्रुवारी महिन्यात नागपुरात होणाऱ्या राष्ट्रीय कृषी प्रदर्शनाच्या उद्घाटनसभेची भारताचे राष्ट्रपती प्रणव मुखर्जी येणार आहेत. हे प्रदर्शन भव्य व्हावे यासाठी सरकारी संरणा कामाला लागली आहे. केंद्रीय कृषी मंत्रालयातर्फे ५ ते ९ फेब्रुवारी दरम्यान यथा मार्गदर्शन कापूस संशोधन केंद्राच्या परिसरात राष्ट्रीय कृषी प्रदर्शन आयोजित करण्यात आले आहे.

“संगोविजन नंतर लगेचच होणार हे दुसरे मोठे कृषी प्रदर्शन असणार आहे. देश आणि विदेशातील कृषी तंत्रज्ञानाची माहिती या प्रदर्शनाच्या माध्यमातून रेतकऱ्यांना देण्याचा प्रयत्न आहे. कार्यक्रमाच्या उद्घाटनासाठी राष्ट्रपती प्रणव मुखर्जी येणार आहे. त्यांनी या कार्यक्रमाला देण्याबाबत होकार कळविला असल्याची माहिती सूत्रांनी दिली. राष्ट्रपतीसोबतच केंद्रीय कृषी मंत्री शरद पवार, राज्याचे कृषिमंत्री सचिनकुमार शिंदे पाटील आणि इतरही केंद्र आणि राज्यपातळीवरील अनेक मंत्री या कार्यक्रमाला उपस्थित राहणार आहे. राज्याचे कृषी सचिव डॉ. सुधीर गोयल उच्च विभागीय आयुक्त कमलन्यात प्रदर्शनाच्या तयारीचा आढावा घेणार आहे. देशाच्या विविध भागातून येणाऱ्या रेतकऱ्यांच्या सहण्यासाठी व्यवस्था केली जात आहे.

According to Goel the focus will be on the rain-fed (or dryland) farming as majority of Indian farmers practice it. Of the ₹45 crore budget for the event, ₹10 crore will be the state contribution. Confederation of Indian Industries (CII) will partner the event.

Around 700 stalls of various agro products, equipment and material will be set up in 45 acres of land at CICR. Besides, there will live farm demonstrations in 10 acres showcasing 304 best varieties of 52 crops, said official sources.

At least two seminars a day with participation of 750 farmers in each and expert advice is planned on each of the five-day event. Between 50,000 and 60,000 footfalls are expected daily and arrangements for boarding are being made. State agriculture minister Radhakrishna Vikhe-Patil is heading the state level coordination committee.

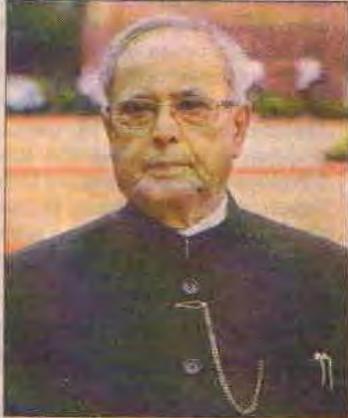
The administration has acquired about 125 wedding halls to accommodate farmers. he first such national exhibition was organized in 1959 by the then Union agriculture minister Panjabrao Deshmukh from December 1 1959 to February 29 1960, Goel said.

Hitavade 30.12.13

President of India to inaugurate NMC's 150th year event in February

President of India to visit city on February 9 to inaugurate National Agriculture Expo

Staff Reporter



Pranab Mukherjee

PRESIDENT of India Pranab Mukherjee is likely to inaugurate 150th year of civic administration function organised by Nagpur Municipal Corporation (NMC) on February 9. He will also inaugurate India's biggest five-day long farm expo Krishi Vasant on the premises of Central Institute for Cotton Research (CICR) Nagpur.

It may be mentioned that President had cancelled his Nagpur visit in November due to ongoing trouble in Rashtrasant Tukadoji Maharaj Nagpur University. Union Agriculture Minister Sharad Pawar who has taken lead to organise big national level agricultural exhibition dedicated to former Chief Minister of Maharashtra late Vasanttrao Naik, has extended invitation to President to inaugurate this mega-event.

Taking cue from this, Mayor Anil Sole has once again requested President of India to spare some time for inauguration of 150

year celebration. The abrupt cancellation of function slated on November 16 had disappointed civic body which was ready with many mega events and release of a history book. The project was shelved with resolve to invite President once again. Sources claimed that President's Office has accepted the invitation of NMC. However, formal declaration of these two functions will be made later, sources revealed.

The local administration was established on June 18, 1864. The function began on June 18 with felicitation of all the former

30.12.13

President of India to inaugurate...

Mayors and Deputy Mayors and former corporators at Town Hall. This is a rare and prestigious moment for the civic body. The civic body has decided to celebrate this proud moment during year long celebrations upto June 17, 2014. The record stated that the first body constituted of 8 ex-officio members of the city. The city celebrated its 100 years of foundation in 1964. The Municipal Body was transformed into Municipal Corporation in March 2, 1951.

CICR will be showcasing 300 best varieties of 53 crores and about five acres for demonstration of farm machines and implements. The expo will be organised in partnership with Government of Maharashtra and CIL, which has expertise in holding such events. Over 30 agriculture universities and institutions, about 80 Indian Council of Agriculture research institutions, and national and international agriculture companies will be participating.

ऑक्टोबर 2014

कोरडवाहू शैती तंत्रज्ञानावर कृषी प्रदर्शनात भर

तयारीचा आढावा : कृषी मंत्र्याच्या नेतृत्वात समिती

नागपूर : राज्याचे माजी मुख्यमंत्री दिवंगत वसंतराव नाईक जन्मशताब्दी वर्षाच्या निमित्ताने नागपुरात ९ ते १३ फेब्रुवारी दरम्यान आयोजित करण्यात येणाऱ्या राष्ट्रीय कृषी प्रदर्शनात विदर्भातील कोरडवाहू शेतकऱ्यांची संख्या लक्षात घेऊन यासंदर्भातील तंत्रज्ञानावर भर देण्यात येणार आहे.

या प्रदर्शनाला दररोज ५० ते ६० हजार शेतकरी भेट देतील, अशी अपेक्षा आयोजकांना असून त्यासाठी आवश्यक ती तयारी केली जात आहे, असे राज्याचे कृषी व पणत खात्याचे अतिरिक्त मुख्य सचिव डॉ. सुधीर गोयल यांनी सांगितले. गोयल यांनी आज या प्रदर्शनाच्या तयारीचा आढावा घेतला. प्रदर्शनाचे उद्घाटन राष्ट्रपतींच्या हस्ते होणार आहे. वैदेशीय कापूस अनुसंधान संस्थेच्या ३५ एकर जागेत होणाऱ्या या प्रदर्शनात विविध कृषी विद्यापीठे, संशोधन संस्था, खासगी कंपन्यांचे दालने राहणार आहेत. प्रदर्शनाच्या तयारीसाठी राज्याचे कृषीसंचालक राधाकृष्ण चिखे पाटील यांच्या अध्यक्षतेखाली राज्यस्तरीय सुकाय समिती स्थापन करण्यात आली आहे. याशिवाय व्यवस्थेसाठी विविध समित्याही स्थापन करण्यात आल्या आहेत.

नोडल अधिकारी म्हणून कृषी आयुक्तांची नियुक्ती करण्यात आली आहे. प्रदर्शनाच्या पांढणीसाठी कॉन्फेडरेशन ऑफ इंडियन इंडस्ट्रियल्स

प्रदर्शनाची भव्यता

देशभरातून शेतकरी या प्रदर्शनासाठी येणार असल्याने त्यांच्या राहण्यासाठी १२५ मंगल कार्यालयांमध्ये व्यवस्था करण्यात आली आहे. कार्यक्रमस्थळी शेतकऱ्यांची ने-आण करण्यासाठी विरोध बसव्यवस्था, नागपुरातील नागरिकांना प्रदर्शन पाहता यावे यासाठी विविध ठिकाणांहून बसेस सोडण्यात येणार आहे. आयोजनासाठी देशभरातून सुमारे एक हजार अधिकारी आणि कामगार नागपुरात येणार आहेत. या उपक्रमावर २० ते २५ कोटी रुपये अपेक्षित आहे. एकाच वेळी १०० ते ८०० शेतकरी बसू शकतील असा भव्य वातावरण कूलित मंडप टाकण्यात येणार आहे.

काय असणार प्रदर्शनात

गेत्या पन्नास वर्षात कृषी क्षेत्रात झालेल्या प्रगतीची झलक या प्रदर्शनात असणार आहे. विविध प्रकारची मत्स्यब्रीड, विविध प्रजातीचे परतूचे स्वतंत्र प्रदर्शन भरविण्यात येणार आहे.

इंटरनेटद्वारे 'लाईव्ह'

गावात वसतूच कृषी प्रदर्शन पाहता यावे यासाठी तालुकास्तरीय इंटरनेट वेबच्या माध्यमातून सोय करण्यात येणार आहे. त्यासाठी ५०० शेतकरी बसू शकतील अशा ठिकाणी व्यवस्था करण्यात येणार आहे.

वसंतराव नाईक चित्रप्रदर्शनी

दिवंगत वसंतराव नाईक यांच्या जीवनावर आधारित कृषी प्रदर्शन आयोजित करण्यात येणार असून त्याला राष्ट्रपती भेट देणार आहेत, असे गोयल यांनी सांगितले. अशा प्रकारचे कृषी प्रदर्शन पंजाबराज्य देशमुख हे कुषिमन्त्री असताना त्यांनी १९५९ मध्ये आयोजित केले होते.

माजी आहे. बैठकीला उपस्थित पठाण, जारोप उपस्थितांक एस.जे.गोतम, महापालिकेचे प्रवीरकुमार दाम, विभागीय कृषी अतिरिक्त आयुक्त हेमंत सदसंचालक डॉ. को.एन. धार्ये, पवार,उपायुक्त प्रमोद भुसारी, अधीक्षक कृषी अधिकारी अर्चना कडू

Produced and Published by : Dr. K. R. Kranthi, Director, CICR, Nagpur
Chief Editor : Dr. Nandini Gokte-Narkhedkar

Editors : Dr. J. Annie Sheeba, Dr. Vishlesh Nagrare, Dr. J. Amutha, Dr. M. Saravanan

Media Support & Layout design : Mr. M. Sabesh

Production Support : Mr. Sanjay Kushwaha

Citation : Cotton Innovate, Issue-5, Volume - 12, 2013-14, Central Institute for Cotton Research, Nagpur



Publication Note: This Newsletter presented online at <http://www.cicr.org.in/NewsLetter.html>
Cotton Innovate is the Open Access CICR Newsletter

The Cotton Innovate – CICR Newsletter is published weekly by
Central Institute for Cotton Research

Post Bag No. 2, Shankar Nagar PO, Nagpur 440010

Phone : 07103-275536 Fax : 07103-275529; email: cicrnagpur@gmail.com