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NASI and NML launch Health and Hygiene Project for Scheduled Tribes of Jharkhand

CSIR-NML

3rd February, 2018

Jamshedpur : Under the banner of The National Academy of Sciences, India (NASI), its Jharkhand State Chapter in association with Faith in India NGO, and CSIR-NML Jamshedpur launched a project entitled 'Health, Hygiene & Nutrition Solutions Project for Scheduled Tribes of Jharkhand'. The meeting was chaired by Dr. Arvind Sinha, Chief Scientist and Chairman, Jharkhand State Chapter of NASI. AnamikaMajumdar represented Faith in India while all the members of NASI including Dr Suman Mishra, DrSandip Ghosh Chowdhury, Dr R K Sahu and DrAbhilash and Anuj Mohan Pradhan (special invitee) also participated in the kickoff meeting of the project and discussed the methodology for its implementation, initially in two villages of the state. Majumdar elaborated in detail on the implementation of the project. Initially the project has been sanctioned by NASI for three years with an objective of spreading awareness among villagers predominantly tribal and providing education to villagers mainly tribal on healthy lifestyle, healthy food habits, prevention and cure of common diseases, proper sanitation, safe water, proper utilization of water, safe surroundings, personal & community hygiene, financial literacy and women empowerment. This project is under the NASI's theme Science for Society and Hon'ble Dr Manju Sharma, former Secretary of Department of Biotechnology, Gov. of India has been a motivating force for the implementation of this project in Jharkhand State for its natives.

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54 Turamdih students visit CSIR-NML under 'Jigyasa programme'

CSIR-NML

3rd February, 2018

Jamshedpur, Feb 3: A group of 54 students from Atomic Energy Central School, Turamdih accompanied by three teachers Mukesh Kumar Patel, Harishankar Tripathi and Indu Singh visited CSIR-National Metallurgical Laboratory, Jamshedpur and interacted with scientists and research scholars on Friday under the aegis of "Jigyasa programme", recently launched by Ministry of Human Resource Development, Government of India, in association with Council of Scientific & Industrial Research. The objective of the programme is to provide exposures of research environment and simultaneously inculcate interest towards science among school students and further pursue carrier in the science stream. The students were thrilled to visit the laboratory and interact with the working group. The programme was scheduled for three hours, Dr. P.N. Mishra, Principal Scientist, initiated the programme with welcome address and introduced students with the members of "Gigyasa programme" and further discussed about natural resources like minerals, ores and rocks. Contribution of CSIR-NML towards the utilization of natural resources and request students to pursue science as carrier for further study. Documentary film on NML & CSIR were shown to them to have detail idea on CSIR-NML in brief duration.

Further, a laboratory visits programme was organized by S.N. Hembram, Dr. A.K.Sahu, Technical Officer leads two groups separately and Dr. P. N. Mishra coordinated both group to interact with scientists and research scholars. The students expressed their desire and feeling, asked numbers of question and clarify doubt with working scientists.

Students visited creep testing units of MST Division and knew about fatigue, creep, fractures prevailing in different types of industrial components. They get exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and Furnace. A live demonstration was arranged at analytical chemistry division with conventional as well as non-conventional methods applied in chemical analysis. Students asked question and sort it out by deputed research scholars. Students showed keen interest in the Electronics Waste Unit and acquainted about the extraction of metals from electronic waste and another product developed by waste like fly ash and other materials were also observed at the Geopolymer units. They further visited at Mechanical Testing Unit and know about forging, shaping and rolling machine, Wire Drawing Machine, Trolly furnace chamber operated at 12000 centigrade.

The NML museum was the attraction among the students & appraised the well decorated museum with plenty of samples and wall mounted posters that highlight the latest and old technologies and products developed by the NML. During the concluding session, teachers and students requested for their next visit to the laboratory for gain deeper knowledge. Teachers expressed their view and was satisfied to know about the consistent effort and research emphasis in various sectors for the ultimate development of India. They also extend thanks to the Ministry of Human Resource Development, Govt.of India, to launch "Gigyasa Programme" tie up with council of Scientific & Industrial Research and they were extremely delighted to visit the National Metallurgical Laboratory, Jamshedpur.

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The Avenue Mail

Karnataka selects 18 institutions for Biotech Finishing School

CSIR-IICT 2nd February, 2018

After the success of the Biotechnology Finishing School (BTFS) programme, the Karnataka government is now planning to expand the programme to include 18 more institutions. The BTFS programme has now been revamped as the Biotechnology Skill Enhancement Programme (BiSEP), and is presented in collaboration with the Life Science Sector Skill Development Council (LSSSDC) and the Indian Institute of Chemical Technology (CSIR-IICT). The BiSEP programme is expected to feature an enhanced and enriched course curriculum that is aligned with the National Vocational Educational Quality Framework (NVEQF). The curriculum will be tailored to incorporate the latest industry trends and technological advances. Announcing the revamped BiSEP programme, Priyank Kharge, Karnataka Minister for IT, BT, S&T, said, "Karnataka has always taken the lead in promoting new fields of study. Our state is known for its prowess in science, technology, and research. It is, therefore, no surprise that we are also leaders in biotechnology. The new Biotechnology Skill Enhancement Programme will create future leaders and innovators in the field, and generate thousands of jobs for our youth." In the first round, 12 major institutions were selected and they reaped rich rewards in terms of training young, eager students, providing them fulfilling internship and employment opportunities, and growing the budding biotech sector in the state. Institutions identified to host the new BiSEP programme are spread across eight districts in Karnataka. The 18 institutions selected are: B.V. Bhoomaraddi College of Engineering and Technology, Hubballi; Basaveshwar Engineering College, Bagalkot; Dayanand Sagar College of Engineering, Bengaluru; IABT, University of Agricultural Sciences, Dharwad; JSS College of Arts, Commerce and Science, Mysuru; M S Ramaiah Institute of Technology, Bengaluru; Maharani Lakshmi Ammanni College for Women, Bengaluru; Mount Carmel College, Bengaluru; Padmashree Institute of Management Science, Bengaluru; PES

University, Bengaluru; School of Life Sciences, MAHE (Deemed-to be University), Udupi; SDM College of Medical Sciences and Hospital, Dharwad; Shri Dharmasthala Manjunatheshwara College, Ujire; Siddaganga Institute of Technology, Tumkuru; St. Aloysius College, Mangaluru; the Oxford College of Science, Bengaluru, University of Gulbarga, Kalaburagi; and Yenepoya (Deemed to be University), Mangaluru

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CSIR-IHBT

1st February, 2018

आह्वान | वैज्ञानिक ऊंचाई वाले क्षेत्रों में जड़ी-बूटियों के संरक्षण के लिए उठाएं कदम

मंत्री ने ली कृषि तकनीकों की जानकारी

जागरण संवाददाता, पालमपुर : कृषि मंत्री रामलाल मार्कंडेय ने सीएसआइआर के आइएचबीटी का दौरा कर विभिन्न तकनीकों के बारे में जानकारी हासिल की।

कृषि मंत्री ने संस्थान के निदेशक संजय कुमार के साथ किसानों की आय बढ़ाने में तकनीकों के इस्तेमाल पर चर्चा की। उन्होंने संस्थान की ओर से विकसित तकनीकों का भी निरीक्षण किया।

आइएचबीटी के प्रधान वैज्ञानिक डॉ. दिनेश सूद ने बताया कि कृषि मंत्री ने संस्थान का दौरा कर यहां की कृषि क्षेत्र में अपनाई जा रही आधुनिक तकनीकों के बारे में जानकारी हासिल की।

उन्होंने लाहुल-स्पीति और किन्नौर क्षेत्रों में उगाई जाने वाली सब्जियों की पैदावार बढ़ाने व ऊंचाई वाले क्षेत्रों में पाए जाने वाले औषधीय पौधों के महत्व और संरक्षण के लिए काम करने का वैज्ञानिकों से आह्वान किया। इस मौके पर आइएचबीटी के अधिकारियों के साथ कृषि विभाग के जिला अधिकारी अरुण ब्यास और अन्य मौजूद रहे।

सीएसआइआर-आइएचबीटी पालमपुर के वैज्ञानिकों और निदेशक से कृषि तकनीकों की जानकारी लेते मंत्री रामलाल मार्कंडेय ● जागरण

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CSIR-CSMCRI

1st February, 2018

શહેરમાં ૩૨મી ગુજરાત સાયન્સ કોંગ્રેસનું કરાયેલુ દ્વિદિવસીય આયોજન

. . . ભાવનગર, તા. ૩૦ . . .

આગામી ૪- ૫ ફેબ્રુઆરી દરમિયાન ગુજરાત સાયન્સ એકેડેમી, સી. એસ. આઈ. આર. ની ભાવનગર ખાતે આવેલ કેન્દ્રીય નમક અને સમુદ્રી રસાયણ અનુસંધાન સંસ્થાન (સી. એસ. એમ. સી. આર. આઈ.) અને એમ. કે.ભાવનગર યુનિવર્સિટી ના સંયુક્ત પ્રયાસ હેઠળ ૩૨મી ગુજરાત સાયન્સ કોંગ્રેસ નું આયોજન ઝવેરચંદ મેઘાણી ઓડીટોરીયમ, ભાવનગરખાતે રાખવામાં આવેલ છે.

આ કાર્યક્રમ માં પદ્મ વિભૂષણ પ્રોફેસર મનમોહન શર્મા, ફ્લોરિડા એટલાન્ટિક યુનિવર્સિટી ના ડીન પ્રોફેસર અભિજીત પંડ્યા, ફિઝિકલ રિસેર્ચ લેબોરેટરી ના ડિરેક્ટર પ્રોફેસર એ. ભારદ્વાજ, આ. યુ. એ. સી.- દિલ્હી ના ડિરેક્ટર પ્રોફેસર દિનકર કાનજીલાલ હાજરી અને માર્ગદર્શન આપશે. આ ઉપરાંત દેશ ના નામાંકિત સંશોધકો એવા પ્રોફેસર સૌરવ પાલ, પ્રોફેસર એલ. એસ. શશીધરા અને ડો. કિરીટ યાજ્ઞીક આ કાર્યક્રમ માં વિજ્ઞાન ક્ષેત્ર ના સંબંધિત વક્તવ્ય આપશે. ગુજરાતના ગણિત શિક્ષણ પર પ્રોફેસર પી. સી. વૈદ્યની અસર ગુજરાત યુનિવર્સિટીના પ્રોફેસર એમ વૈદ્ય દ્વારા કરવામાં આવશે.દૈનિક જીવનમાં આવશ્યક વૈજ્ઞાનિક અભિગમોની વાત પ્રોફેસર અરુણ કુમાર દવે, લોક ભારતી ગ્રામ વિદ્યાપીઠ, વિજ્ઞાન ભવન, ગુજરાત કરશે અને સાથે લોકભારતી, સણોસરા દ્વારા કરેલા યોગદાન વિશે વાત કરશે.

આ કાર્યક્રમ માંરેલાયન્સ ઈન્ડસ્ટ્રીઝ લીમીટેડ ના ગ્રુપ પ્રેસિડેન્ટ ડો. અજિત સપ્રે પોતાની વિશેષ હાજરી આપશે. આ સંપૂર્ણ કાર્યક્રમ દરમિયાન દેશ ના વિકાસ માટે વૈજ્ઞાનિક તકનીકનો આવનારા સમય માં ફાળો અને દેશ ના સર્વાંગી વૃદ્ધિ માટે સંશોધકો ની ભૂમિકા અંગે ચર્ચા કરવામાં આવશે. આ ઉપરાંત આ કાર્યક્રમ માં ભાગ લઈ રહેલ સંશોધકો માંથી વિશિષ્ઠ પોસ્ટર પ્રસ્તુત કરનાર તેમજ બેસ્ટ થીસીસ માટે ઈનામ આપવામાં આવશે.આ સમગ્ર કાર્યક્રમ માં ૪૫૦ થી વધારે દેશભર માંથી આવેલા વિજ્ઞાન ક્ષેત્રના તજ્ઞો, વિદ્યાર્થીઓ, શીક્ષણ ક્ષેત્રના મહાનુભાવોચર્ચા માં ભાગ લેશે.

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CSIR-IITR

1st February, 2018

सीएसआईआर आईआईटीआर में खेल टूर्नामेंट शुरू

खेल संवाददाता

लखनऊ।

49वें शांति स्वरूप भटनागर मेमोरियल टूर्नामेंट का उद्घाटन बुधवार को सांस्कृतिक कार्यक्रम के बीच सीएसआईआर आईआईटीआर में किया गया। इस दौरान दस सीएसआईआर प्रयोगशालाओं से आई क्रिकेट व बॉली बाल सभी टीमों ने उद्घाटन समारोह में हिस्सा लिया।

समारोह में पूर्व क्रिकेटर आरपी सिंह मुख्य अतिथि के तौर पर मौजूद थे। उन्होंने खिलाड़ियों से खेल भावना के तहत खेलने की अपील करते हुए कहा कि खेल कभी जीत की भावना से नहीं खेला जाता। खेल की भावना से खेला जाता है। सीएसआईआर आईआईटीआर के निदेशक आलोक धावन ने कहा कि खेल की भावना पैदा करने के लिए की गई एक शुरुआत आज बड़े पैमाने पर पहुंच चुकी है।

उन्होंने बताया कि देश भर की दस प्रयोगशालाओं के क्रिकेट और वालीबाल की टीमें इसमें हिस्सा लेंगी। इस अवसर पर सीएसआईआर सीमैप के निदेशक प्रो. आरपी त्रिपाठी और सीएसआईआर एनबीआरआई के निदेशक डॉ. एसके बारिक भी मौजूद रहे।

टूनामेंट के शुभारम्भ पर स्मारिका का विमोचन करते आरपी सिंह, आलोक धवन व अन्य।

Published in:
Amar Ujala

Study begins to trace palaeochannels, river Saraswati in Allahabad

CSIR-NGRI

31st January, 2018

ALLAHABAD: The team of senior scientists from NGRI, Hyderabad who are in the Sangam city to trace underneath palaeochannels in the district including the mythical Saraswati, started their study from the base camp located at Quadipur village, bordering Manjhanpur block of Kaushambi, on Wednesday. The chopper, carrying the main equipment known as transient electromagnetic sensors (TEM), taken on lease from Denmark, flew on the test flight on the pre-decided longitudes between the river Yamuna (towards South of Allahabad) to river Ganga (towards North).

The study is being carried out by NGRI who have been hired by the Central Ground Water Board (CGWB). Among the team members (from CSIR-NGRI) Shakeel Ahmedis the chief scientist, Subash Chandra being the principal scientist, Sateesh Chandrapuri, scientist and the technical officer, E Nagaiah. The study also involves experts from Central Ground Water board (CGWB) including YB Kaushik, regional director, MN Khan from head office, Allahabad, Shashi Kant Singh, Geophysicist, Lucknow, and Rakesh Singh, scientist-D, Bhopal.

Three engineers from Denmark namely Rasmus Teilmann , John blyth and Jan Steen are also assisting in the ongoing survey. "The ministry of Ganga rejuvenation has given the task to the board to find out all the underneath palaeochannels and we are now engaged by the board for the specific task as several of the aspect, related to this study, have been completed by the board themselves", said Puri.

Talking of the study, being carried out by them, the expert said that the equipment used by them can extract the relevant information from 200-400 meter beneath the earth crust and a similar work has already been done in Six districts in the country including Patna, Tumkur, Dosa, Nagpur etc. "Our recent study was conducted in the city of Surat wherein we were engaged by the Surat Municipal corporation who wanted our study to make policy related to developing Surat as Smart City", explained Puri.

The team would formally start its study from February 1 for which it has invited several experts from various institutions of the city including Allahabad University.

"We had tested our equipment and the chopper, along with the payload of the equipment and generator, was airborne for around half an hour and flew for couple of kilometers", said Shubash Chandra.

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CSIR-CSMCRI

31st January, 2018

૩૨મી ગુજરાત સાયન્સ કોંગ્રેસનું ભાવનગરમાં ૩,૪ ફેબ્રુ.એ આયોજન

ભાવનગર તા. ૩૦

૪- ૫ ફેબ્રુઆરી દરમિયાન ગુજરાત સાયન્સ એકેડેમી, સી. એસ. આઈ. આર.ની ભાવનગર ખાતે આવેલ કેન્દ્રીય નમક સમુદ્રી રસાયણ અનુસંધાન સંસ્થાન (સી. એસ. એમ. સી. આર. આઈ.) અને એમ. કે. ભાવનગર યુનિવર્સિટી ના સંયુક્ત પ્રયાસ હેઠળ ૩૨મી ગુજરાત સાયન્સ કોંગ્રેસ નું આયોજન ઝવેરચંદ મેઘાણી ઓડીટોરીયમ, ભાવનગર ખાતે રાખવામાં આવેલ છે.

આ કાર્યક્રમ માં પદ્મ વિભૂષણ પ્રોફેસર મનમોહન શર્મા, ફ્લોરિડા એટલાન્ટિક યુનિવર્સિટી ના ડીન પ્રોફેસર અભિજીત પંડ્યા, ફિઝિકલ રિસેર્ચ લેબોરેટરી ના ડિરેક્ટર પ્રોફેસર એ. ભારદ્વાજ, આ. યુ. એ. સી.- દિલ્હી ના ડિરેક્ટર પ્રોફેસર દિનકર કાનજીલાલ હાજરી અને માર્ગદર્શન આપશે. આ ઉપરાંત દેશ ના નામાંકિત સંશોધકો એવા પ્રોફેસર સૌરવ પાલ, પ્રોફેસર એલ. એસ. શશીધરા અને ડો. કિરીટ યાજનીક આ કાર્યક્રમ માં વિજ્ઞાન ક્ષેત્ર ના સંબંધિત વક્તવ્ય આપશે. ગુજરાતના ગણિત શિક્ષણ પર પ્રોફેસર પી. સી. વૈદ્યની અસર ગુજરાત યુનિવર્સિટીના પ્રોફેસર એમ વૈદ્ય દ્વારા કરવામાં આવશે. દૈનિક જીવનમાં આવશ્યક વૈજ્ઞાનિક અભિગમોની વાત પ્રોફેસર અરુણ કુમાર દવે, લોક ભારતી ગ્રામ વિદ્યાપીઠ, વિજ્ઞાન ભવન, ગુજરાત કરશે અને સાથે લોકભારતી, સણોસરા દ્વારા કરેલા યોગદાન વિશે વાત કરશે.

આ કાર્યક્રમ માં રેલાયન્સ ઈન્ડસ્ટ્રીઝ લીમીટેડ ના ગ્રુપ પ્રેસિડેન્ટ ડો. અજિત સપ્રે પોતાની વિશેષ હાજરી આપશે. આ સંપૂર્ણ કાર્યક્રમ દરમિયાન દેશ ના વિકાસ માટે વૈજ્ઞાનિક તકનીકનો આવનારા સમય માં ફાળો અને દેશ ના સર્વાંગી વૃદ્ધિ માટે સંશોધકો ની ભૂમિકા અંગે ચર્ચા કરવામાં આવશે. આ ઉપરાંત આ કાર્યક્રમ માં ભાગ લઈ રહેલ સંશોધકો માંથી વિશિષ્ઠ પોસ્ટર પ્રસ્તુત કરનાર તેમજ બેસ્ટ થીસીસ માટે ઈનામ આપવામાં આવશે. આ સમગ્ર કાર્યક્રમ માં ૪૫૦ થી વધારે દેશભર માંથી આવેલા વિજ્ઞાન ક્ષેત્રના તજજ્ઞો, વિદ્યાર્થીઓ, શીક્ષણ ક્ષેત્રના મહાનુભાવો ચર્ચા માં ભાગ લેશે. જેમાં ૩૧૭ જેટલા પોસ્ટર્સ પ્રદર્શિત કરવામાં આવશે અને ૧૦ થી વધારે વ્યાખ્યાન આપવામાં આવશે.

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किसानों को आर्थिक रुप से समृद्ध करने में वैज्ञानिकों का अहम रोल : गिरिराज

लखनऊ। सीएसआईआर केन्द्रीय औषधीय एवं सगंध पौधा संस्थान की ओर से लखनऊ स्थित कैम्पस में आज बुधवार को एक दिवसीय किसान मेले में देश के विभिन्न राज्यों से आये लगभग 7000 किसानों का जमावड़ा रहा। किसानों ने मेले में भाग लेकर औषधीय व सगंध पौधों की लाभकारी खेती के बारे में जानकारी ली और अपने अनुभव भी साझा किये। उधर वैज्ञानिकों की टीम ने किसानों को उन्नत खेती, किस्मों तथा प्रसंस्करण व विपणन की विस्तृत जानकारी उपलब्ध कराई। किसान मेले के मुख्य समारोह में मुख्य अतिथि केन्द्रीय राज्य मंत्री (स्वतंत्र प्रभार), सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार गिरिराज सिंह ने

करने के संकल्प की चर्चा करते हुए कहा कि इसमें औषधीय एवं सगंध फसलें महत्वपूर्ण भूमिका निभा सकती हैं। उन्होने आगे कहा कि सीएसआईआर-एरोमा मिशन के अंतर्गत स्थापित किये जाने वाले 300 क्लस्टर्स में 300 प्रसंस्करण इकाइयाँ लगाने हेतु एमएसएमई मंत्रालय भी जुड़ेगा। उन्होंने आशा व्यक्त की कि सीमैप के प्रयास से मेन्था जैसी सफलता की कहानी दूसरी सुगंधित फसलों में भी साकार हो सकेगी। उन्होने कहा कि किसान को सामर्थ्यवान बनाकर ही उसके चेहरे पर खुशी लाई जा सकती है। सीमैप के निदेशक प्रो. अनिल कुमार त्रिपाठी ने कहा कि इस वर्ष सीएसआईआर-एरोमा मिशन के अंतर्गत किसान मेला में पधारे

किसान मेला

सीमैप में किसानों, वैज्ञानिकों और उद्योगों का अनूठा संगम

किसानों ने साझा किये अपने अनुभव

प्रौद्योगिकी द्वारा सक्षम बनाकर उनकी आय में वृद्धि करना ही हमारा मुख्य उद्देशय है। प्रो. त्रिपाठी ने बताया कि इस वर्ष लखनऊ मुख्यालय से लगभग 500 क्विंटल अधिक उपज देने वाली मेन्था की प्रजाति की जड़ें (पौध सामग्री) के रूप में जिंदल ड्रग्स और रीगले कंपनी के वित्तीय सहयोग से किसान मेले के अवसर पर 20 प्रतिशत छूट के साथ

इस अवसर पर विशिष्ट अतिथि के रूप में प्रदेश के कृषि मंत्री सूर्य प्रताप शाही ने औषधीय एवं सगंध पौधों के उत्पादन में सीएसआईआर-सीमैप के योगदान की प्रशंसा करते हुए संतोष व्यक्त किया कि संस्थान के प्रयासों से 3-4 लाख किसानों की आय बढ़ाते हुए देश को मेन्था के उत्पादन और निर्यात में शीर्ष स्तर पहुँचने में सफलता मिल चुकी है। श्री शाही ने आगे बताया कि सीमैप द्वारा विकसित मेन्था की किस्में किसानों में काफी लोकप्रिय हैं और इसकी उपज बढ़ाने में मददगार साबित हो सकी हैं।

इस अवसर पर किसान मेला समिति के अध्यक्ष डॉ. आलोक कालरा ने भी किसानों को संबोधित किया। किसान मेला के संयोजक डॉ. संजय कुमार ने

आगंतुक किसानों और उद्यमियों को इस अवसर पर सीमैप द्वारा प्रकाशित स्मारिका 'औस-ज्ञान्या' तथा सीएसआईआर-एरोमा मिशन पर प्रकाशित पुस्तिका भी उपलब्ध कराई गई। विभिन्न उद्योगों के प्रतिनिधियों अजय जिंदल (जिंदल इंडस्ट्री.ज), अजय कुमार जैन (इसैन्श्यल ऑइल असोशिएशन ऑफ इंडिया), श्री रमेश वैज्य (केलकर ग्रुप), दिनेश कुमार (नैचुरल एरोमा), रमाकांत हरलालका (निशांत एरोमा), श्री इंद्रनील मुखर्जी (एमसीएक्स) और अजीत शर्मा व ए. के. सिंह (रिगले) ने भी मेले में भाग लिया। इसके पूर्व मुख्य अतिथि गिरिराज सिंह व विशिष्ट अतिथि सूर्य प्रताप शाही ने सीमैप परिसर में सीता-अशोक का

फोटोः जनसंदेश टाइम्स

सीमैप में आयोजित किसान मेला में औस ज्ञान्या पत्रिका का विमोचन करते केन्द्रीय मंत्री गिरिराज सिंह ,सूबे के कृषि मंत्री सर्यप्रताप शाही व संस्थान निदेशक प्रो. एके त्रिपाठी

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आविष्कार | सीएसआईआर प्रगत पदार्थ तथा प्रक्रम अनुसंधान संस्थान (एम्री) में प्रोडक्ट लॉचिंग और व्याख्यान का आयोजन

हाइब्रिड ग्रीन कंपोजिट उत्पाद पर नहीं होता मौसम का असर

भोपाल। नवदुनिया रिपोर्टर

हाइब्रिड ग्रीन कंपोजिट पदार्थ को दैनिक जीवन के कई कामों में उपयोगी बनाया जा सकता है। यह ऐसा उत्पाद है जो दीमक, कवक, कीड़े, जंग, अग्नि और नमी समेत किसी भी मौसम में प्रभावित नहीं होता है। कुछ ऐसे ही विचार व्यक्त कर एक्सपर्ट्स ने हाइब्रिड ग्रीन कंपोजिट उत्पादों के महत्व को समझाया। सोमवार को सीएसआईआर प्रगत पदार्थ तथा प्रक्रम अनुसंधान संस्थान (एम्री) में व्याख्यान का आयोजन किया गया। जहां हायब्रिड ग्रीन कंपोजिट मटेरियल्स के बने कई उत्पाद की जानकारी दी गई। इस मौके पर प्रो. विक्रम कुमार, एम्री निदेशक डॉ. अवनीश कुमार श्रीवास्तव, पीआर चौहान मौजूद थे।

एम्री में एक्सपर्ट ने हायब्रिड ग्रीन कंपोजिट मटेरियल्स के बने उत्पादों का प्रदर्शन किया।

मजबूती और मौसम के अनुकूल : यह उत्पाद चार गुना मजबूत और 40 प्रतिशत तक सस्ते होते है। टिकाऊ, पर्यावरण के लिए अनुकूल उत्पादों को आवास, निर्माण में भी उपयोग किया जा सकता है। इस तकनीक का लाभ आने वाले समय में तेजी से बढ़ेगा। यह तकनीक वजन, मूल्य के मामले में कई उत्पादों से ज्यादा बेहतर है। इसे व्यवसाय के लिए तैयार किया जा रहा है।

प्लाइवुड से भी ज्यादा टिकाऊ

हायब्रिड ग्रीन कंपोजिट मटेरियल्स सागौन की लकड़ी, प्राकृतिक लकड़ी, सिंथेटिक लकड़ी, पार्टिकल बोर्ड, न्यूवुड और प्लाइवुड से भी ज्यादा टिकाऊ होता है। इसका निर्माण छत्तीसगढ़ के भिलाई में हो रहा है। साथ ही चंद्रपुर महाराष्ट्र में भी इसका व्यावसायिक स्तर पर उत्पादन शुरू किया गया है। अन्य उद्योगों में भी इस तकनीक का निर्माण जल्द किया जाएगा। एक्सपर्ट्स ने बताया कि हाइब्रिड ग्रीन कंपोजिट 0.3 प्रतिशत से कम नमी को अवशोषित करता है। कवक, दीमक और कीड़ों के हमले से बचा रहता है। यह पारंपरिक सामग्री से कहीं ज्यादा बेहतर होता है। इस तकनीक का उद्योगों में भी उपयोग बढ़ा है।

कच्चे माल और अपशिष्ट पदार्थों से निर्माण

एक्सपर्ट्स ने बताया कि उत्पादों के निर्माण के लिए मुख्य तौर पर कच्चे माल, प्राकृतिक फाइबर, पॉलिमर, औद्योगिक अपशिष्ट पदार्थ, संगमरमर अपशिष्ट, ताप विद्युत संयंत्र की फ्लाई ऐश, बॉक्साइट अवशेष का उपयोग किया जाता है। कंपोजिट सामग्री में दरवाजे, सीलिंग, फर्श टाइल, दीवार टाइल, पार्टीशन और फर्नीचर मुख्य होते हैं। सागौन की लकड़ी की तुलना में हाइब्रिड ग्रीन कंपोजिट उत्पाद ज्यादा टिकाऊ होते हैं।

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Scientists in Telangana develop pheromone raps to kill pests in agricultural fields

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VISAKHAPATNAM: AT a time when recurrent pest attacks on crops and harmful effect of indiscriminate use chemical pesticides is giving the farmers and scientists the jitters, the scientists at the CSIR- Indian Institute of Chemical Technology (IICT), Hyderabad, have come up with an eco-friendly way of keeping the pest infestation at bay.

They have developed a pheromone trap which can kill insects in the fields itself, restricting their multiplication without application of any toxic chemical.

Pheromone is a biochemical the pests release to attract the opposite sex for mating. This device uses pheromones to attract a particular pest which gets trapped and killed in the process. Having implemented the technology successfully in Nalgonda, Adilabad, Gujarat and in some parts of Guntur and Srikakulam districts, the CSIR is now trying to spread it across Andhra Pradesh, by imparting to farmers.

"The traps are small cone-shaped plastic bags containing pheromones and are placed at the corners of the crop fields. As insects communicate through smell, they get attracted only to get trapped in the bags. Once trapped, they can't go out of the bag and get killed," S Chandra Sekhar, director of CSIR- IICT says.

"This biological control method helps farmers avoid the use of chemical insecticides which are harmful to crops, soil health and environment at large," he explains He added that already, the method has been successfully implemented in around 25,000 hectares in Nalgonda, Adilabad and Gujarat.

Four traps can be used for an acre of farmland. However, he says that the traps are effective when the pest numbers are low.

"Approximately, 3 to 5mg of pheromone is used per trap which remains effective for about a month. As one trap costs `30, farmer can ensure effective pet control by spending around `1,000 per season," says IICT, Semiochemicals head Subba Reddy.

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