CSIR IN MEDIA

CSIR

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Compiled by Science Communication and Dissemination Directorate (SCDD), CSIR, Anusandhan Bhawan, New Delhi

Science museums to be set up in country as NCSM-CSIR sign MoU to integrate Science & Culture

CSIR-NPL

30th September, 2021

The National Council of Science Museums (NCSM) under the Ministry of Culture has signed a Memorandum of Understanding (MoU) with the Council of Scientific and Industrial Research (CSIR). The MoU seeks to integrate culture with science.

Setting Up of Science Museums

Under the MoU, science museums will be set up at select CSIR laboratories. The setting up of science museums will add to the popularity of science education, promote scientific curiosity and awareness among the common people across all sections of society.

Union Culture Minister, G Kishan Reddy said that the MoU will be the endeavor to fulfill the 5Cs of the 21st Century, i.e, critical thinking, creativity, collaboration, curiosity, and communication.

Meanwhile, Union Minister of State (Independent Charge) Science & Technology, Dr. Jitendra Singh added that science museums across the country would promote scientific temper, particularly among children and the younger generation.

Purpose of MoU

The Government has been taking initiatives for the development of a culture of science in the country. Events like the pandemic have only stressed the need to be equipped with science and technology and create awareness of society for science and scientific thinking.

India is promoting experience-based learning. Dr. Jitendra Singh reiterated that science-based, rational and progressive thinking should form the basis for development and to strengthen a science-based approach.

The MoU aims to achieve the following;

1.) To create a new chapter in the history of science communication and dissemination.
2.) MoU will connect NCSM and CSIR and its laboratories.
3.) The MoU also aims to promote a culture of science, technology, and innovation in the country

Virtual labs

CSIR in partnership with IIT-Bombay is setting up virtual labs for school students. Prime Minister Narendra Modi in the CSIR Society Meeting in 2020 has expressed the desire for virtual labs for school students.

Now, the collaboration of CSIR and NCSM will bring a museum within National Physical Laboratory (NPL) that would showcase the technologies and interventions developed by CSIR over the past eight decades. The museums will encourage students and youth to engage in innovation and technology.

About CSIR & NCSM

The Council of Scientific and Industrial Research (CSIR) is one of the largest and most diversified publicly funded scientific and industrial research organizations in the world. It is known for its R&D knowledge base in diverse science and technology areas.

CSIR has a network of 37 national laboratories, 39 outreach centres, 3 innovation complexes, and five units with a pan-India presence.

On the other hand, the National Council of Science Museums (NCSM) under the Ministry of Culture, has the largest network of science centres/ museums in the World.

NCSM was formed on April 4, 1978. and presently, it administers 25 science centres/ museums spread across India. Science City, Kolkata, Birla Industrial and Technological Museum (BITM), Kolkata, Nehru Science Centre, Mumbai, Visvesvaraya Industrial and Technological Museum (VITM), Bangalore, and National Science Centre, Delhi are national level centres of NCSM.

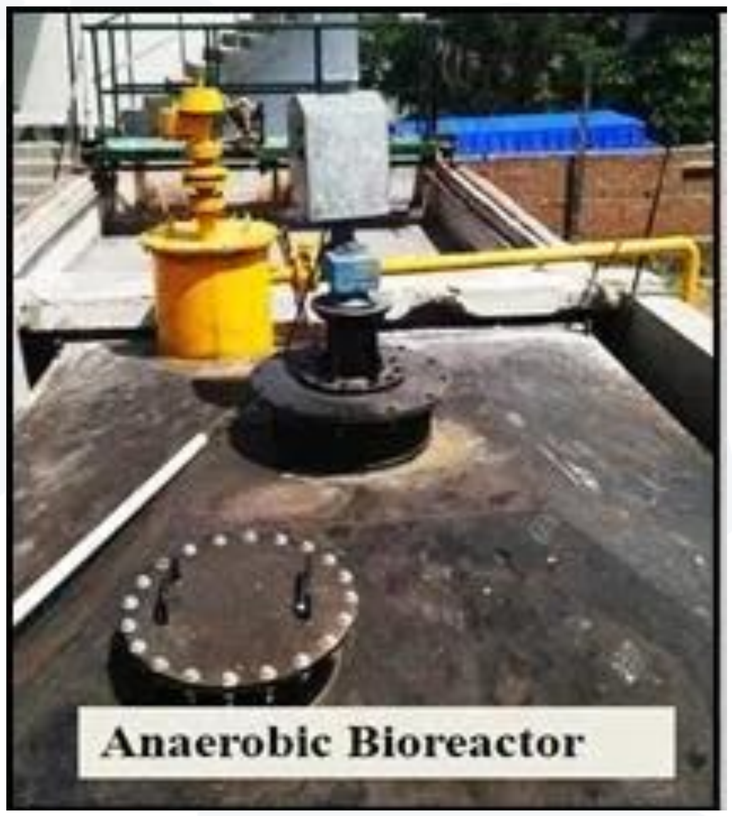
Published in:
NewsOnAir

Technology To Enhance Biogas Production Of Fat-Rich Sludge From Dairy Industry Developed

CSIR-CFTRI

30th September, 2021

New Delhi: Indian Scientists have developed a novel high-performance bioreactor system integrated with sustainable pre-treatment process for enabling anaerobic digestion of complex fat-rich sludge from dairy industry. It has been further integrated with membrane bioreactor based-wastewater treatment to enable zero liquid discharge in the dairy industry.



This technology has been developed by Dr. Sandeep N. Mudliar at CSIR-CFTRI Mysore with support from the Waste Management Technology program of the Department of Science & Technology (DST), Government of India, with in-kind support from M/s Sun Enviro Technologies Pvt. Ltd. for the pilot-scale trials at a model dairy plant. They had developed a bench-scale system, which has been tested on pilot scale and will be filing for a patent soon.

It can also be applied for anaerobic digestion of complex solid waste containing Fats and oils and can be coupled with wastewater treatment to enable Zero Liquid discharge. Further, the technology can be used for solid and liquid waste management in food and allied industries. The sustainable pre-treatment technique is applicable to all types of complex solid wastes to enhance biogas production as well as robustness of anaerobic digestion process.

Dairy and food industries are the likely industries which can take up the technology. The technology will also be applicable for any biodegradable solid waste sludge and food waste from any food industry as well as food industry wastewaters.

Published in:

Pragativadi

Lahaul farmers trained in ‘Heeng’ cultivation

CSIR-IHBT

30th September, 2021

To strengthen the economy of farmers in the tribal district of Lahaul-Spiti, the CSIR-Institute of Himalayan Bioresource Technology (IHBT), Palampur, is encouraging them to cultivate ‘heeng’. As many as 186 farmers have been trained so far.

FIRST dist in country to begin sowing

To improve the livelihood of farmers and utilise the land, the CSIR-IHBT is making an endeavour to introduce heeng, which is suitable for cultivation in cold desert conditions. Lahaul and Spiti is the first district in India to start 'heeng' cultivation— Sanjay Kumar, Director, CSIR-IHBT

Sanjay Kumar, director, CSIR-IHBT, says, “The institute has the Centre for High Altitude Biology, Ribling at Lahaul, where farmers grow potato and peas on mainly barren land. To improve the livelihood of farmers and utilise the land, the institute is making an endeavour to introduce ‘heeng’, which is suitable for cultivation in cold desert conditions”.

He says that Lahaul and Spiti is the first district in India to begin ‘heeng’ cultivation. “The institute introduced heeng seeds from Iran and Afghanistan through the ICAR-National Bureau of Plant Genetic Resources (ICAR-NBPGR), New Delhi, in 2018,” he adds.

“Germination is a constraint in Ferula heeng due to seed dormancy. A series of experiments were conducted in the laboratory using different temperature treatments to standardise seed germination. Growth hormones and seed germination of 60-70 per cent was achieved for

raising planting material," he says. The institute conducted experiments under the vigil of the ICAR-NBPGR, at the Centre for High Altitude Biology, Ribling, at an altitude of 11,500 ft in Lahaul and Spiti, says the director.

Seedlings were planted at Kwaring village in Lahaul and Spiti on October 15, 2020. Till now, 12,800 plants have been distributed to the farmers of the district with the help of the Agriculture Department covering about 1.5 hectares in Keylong, Belling, Sasura Gompa, Madgram, Salgran, Gondhla, Triloknath, Chheling and Kaza.

The director says, "India imports about 1,540 tonnes of raw 'heeng' annually from Afghanistan, Iran and Uzbekistan for around ? 942 crore per year. In order to make India self-sufficient cold desert areas such as Lahaul and Spiti, Ladakh, parts of Uttarakhand and Arunachal Pradesh are suitable for the cultivation of heeng".

Published in:
Tribune India

CSIR-IIP

30th September, 2021

पराली से निपटने में कारगर होगा आईआईपी का शोध

हिन्दुस्तान

एक्सक्लूसिव

देहरादून | शैलेन्द्र सेमवाल

सीएसआईआर-आईआईपी को पराली समेत तमाम बायोमास अवशेषों को खाद, कैमिकल व बिजली बनाने जैसे उपयोगी साधनों में बदलने में शुरुआती कामयाबी मिली है। इस पर शोध अभी जारी है और वैज्ञानिक एक डाटा बेस तैयार कर ये देख रहे हैं कि तमाम तरह के बायोमास अवशेषों से और क्या बनाया जा सकता है।

आईआईपी की वरिष्ठ वैज्ञानिक डा.भव्या बी कृष्णा को दस सालों के शोध के जरिए फसल अवशेषों के डीकार्बोनाइजेशन के जरिए थर्मोकेमिकल रूपांतरण में कामयाबी मिली है। भव्या के मुताबिक, अधिकांश जगहों पर फसलों के अवशेषों को किसान खेतों में जला देते हैं। इससे वातावरण में चारों ओर धुआं छाया रहता है। बड़ा प्रश्न है कि पराली का उपयोग किस तरह से हो। डा.भव्या ने अपने शोध में बताया है कि वैज्ञानिक विधि से अवशेषों को कुशल बर्नर से छर्रों में तब्दील किया जा सकता है। जो आग सेंकने से लेकर फैक्ट्रियों में ईंधन की जरूरत को पूरा कर सकेंगे। थर्मोकेमिकल रूपांतरण से जैविक तेल, बिजली बनाने, फर्नेस ऑयल, कीटनाशक, पशु चिकित्सा मलहम, सांप विकर्षक, एंटी टरमाइट, कवक-विरोधी रसायन तैयार किए जा सकते हैं।

डा. भव्या बी कृष्णा। ● हिन्दुस्तान

बायोमास के लिए प्रभावी रणनीति तैयार करने के लिए हम जरूरी डाटा तैयार कर रहे हैं। इससे किसानों को अतिरिक्त आय, पराली उपयोग, स्थानीय रोजगार अवसर, स्वच्छ भारत मिशन, ईंधन का विकल्प देकर क्रूड ऑयल आयात को कम करने जैसी राष्ट्र के समग्र विकास में मदद मिलेगी।

-डा. अंजन रे, निदेशक आईआईपी

Published in:
Hindustan

CSIR-NML training programs to fill skill gaps: Dr. Sivaprasad

CSIR-NML

29th September, 2021

Jamshedpur, Sep 29: A virtual training program on the "Industrial Training on Metallurgy" was organised by CSIR-National Metallurgical Laboratory, Jamshedpur. The program which started on September 28 will continue till October 30. This is initiated under the banner of the CSIR Integrated Skill Initiative national program.

The training program is expected to give a deep and practical knowledge and understanding to diploma and undergraduate students about metals, materials, minerals and metallurgy. A number of training sessions have been planned that will cover all areas related to metallurgy such as mineral beneficiation, iron and steelmaking, non-ferrous metal extraction, materials processing, materials characterization, failure analysis and waste utilization. Apart from these, the participants will have exposure to sessions to develop their core professional skills and data analysis skills that will help them excel in their professional life in future.

On September 28, the inaugural program bagan with Pragati Jha from KRIT Division of CSIR-NML introducing the speaker. Dr. Arvind Sinha, Head, AMP Division of CSIR-NML delivered the welcome address. He briefly talked about the objective of arranging this training program.

This was followed by an address by Dr. S. Sivaprasad, Head, HRG, CSIR-NML. He gave an overview of the CSIR Integrated Skill Initiative program. As stated by him, the main objective of this CSIR initiative is to utilize the CSIR knowledge base and infrastructure for contributing to national skill mission of Government of India. Dr. Sivaprasad brought out

some facts about the skill gap that exists in the youth of India and narrated about various skill training programs conducted every year by CSIR-NML in an attempt to fill this gap.

With Dr. Sivaprasad's presentation the inaugural program came to an end and the technical session started. There were more than 425 participants who attended the inaugural session of the online training program.

Published in:
The Avenue Mail

Himachal Pradesh becomes first state to organise cultivation of true dalchini

CSIR-IHBT

29th September, 2021

PALAMPUR: Realizing that people in India have been consuming inferior quality cinnamon (dalchini) having serious ill effects on health, the Council of Scientific and Industrial Research (CSIR) -Institute of Himalayan Bioresource Technology (IHBT) has, for the first time, begun organized cultivation of 'true' variety of cinnamon plant in the country.

While talking to TOI on Wednesday Dr. Sanjay Kumar, Director, CSIR-IHBT informed "The true cinnamon is derived from Cinnamomum verum whereas the majority of cinnamon being sold in the market is derived from Cinnamomum cassia which is yet another species whose bark is used in place of Cinnamomum verum and it has a high content of courmarin which is not good for health and is known as kidney destroyer due to which it is banned in the US and other countries" he said.

He further informed that the cinnamon derived from Cinnamomum cassia (commonly sold in the market) was used in large quantities while making cakes or pies . Even many people consume large quantities of dalchini for medicinal purposes which indirectly causes much harm than doing any good.

Giving details, Kumar informed that Cinnamomum verum was mainly grown in Sri Lanka, while it was grown in small quantities in the countries like Seychelles, Madagascar, and India (in an unorganized sector)

India imports 45,318 tonnes (worth Rs. 909 crores) of cinnamon annually from China, Sri Lanka, Vietnam, Indonesia, and Nepal. Of the 45,318 tonnes of imports, astonishingly, India imports 37,166 tonnes of Cinnamomum cassia (species banned in several countries) from Vietnam, China, and Indonesia.

“Realising that the large import of cinnamon in the country is of Cinnamomum cassia and not Cinnamomum verum we had the ecological niche modeling of Cinnamomum verum and identified its potential areas for cultivation in HP . Our data suggested that the districts of Una, Bilaspur, Kangra, Hamirpur and Sirmour in HP have potential areas for its cultivation" said the Director.

With the cultivation of Cinnamomum verum , HP has become the first state of India to have organized cultivation of cinnamon . Kumar informed that as much as 2000 hectares of the area was under Cinnamomum verum cultivation in Kerala but was in an unorganized sector.

“Today agriculture minister Virender Kanwar launched the pilot project on cinnamon cultivation in the state by planting its saplings in the field of a progressive farmer Yograj at villae Kholin in Una district,” said he. adding that initially, they plan to plant as many as 600 to 700 plants of true dalchini.

Published in:
Times Of India

Arunachal plans big for cultivating aromatic plants, palm oil

CSIR-CIMAP

29th September, 2021

Itanagar, Sep 29 (IANS): Responding to the willingness of various government and private organisations, Arunachal Pradesh Chief Minister Pema Khandu said on Tuesday that his government would facilitate cultivation, processing and value addition of various aromatic plants and palm oil.

Among the private organisations, Andhra Pradesh-based Ruchi Soya Industries Ltd has told the Chief Minister that it is keen to invest over Rs 500 crore on nurseries, plantation, setting up of palm oil factory and refinery, urging the state government to allot at least 25 hectares of land for the establishment of a 5 MT per hour capacity mill in the state. Khandu held a meeting with the officials of the Lucknow-based Central Institute of Medicinal and Aromatic Plants (CIMAP), a frontline research lab of CSIR, Hyderabad-based 3F Industries Ltd, Ruchi Soya Industries ltd, and Ghaziabad-based Dabur India Limited, which submitted their proposals on plantation, processing and value addition of various aromatic plants and palm oil.

Senior scientist of CIMAP, R.K. Srivastava, informed the Chief Minister that CSIR-CIMAP proposes to collaborate with the state government for the production of aromatic plants such as mint, scented geranium, rosemary, citronella, lemongrass, vetiver, patchouli etc. Initially, commercial cultivation and processing of aromatic crops could be undertaken in 15 of the state's 25 districts, Srivastava said.

While appreciating the interest shown and assurances made by the organisations, the Chief Minister said that all the proposals would be examined and the government would ponder on these seriously on a priority basis.

Published in:

Daiji World

NIIST lauded for security printing technology

CSIR-NIIST 28th September, 2021

Scientists at the CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) here have won recognition for developing the know-how for indigenously manufacturing fluorescent pigments used to incorporate security features in currency notes and official documents.

Images made using these fluorescent inks are invisible under normal light. They turn visible only when viewed under UV light. Such fluorescent materials find anti-counterfeiting applications in bank notes, passports, and other high-security documents.

For the achievement, the NIIST was awarded the Certificate of Merit under the category of CSIR Technology Awards at the 80th Foundation Day celebrations of the Council of Scientific and Industrial Research (CSIR) held in New Delhi on Sunday. The seven-member NIIST team involved in the project on security printing materials included Vijayakumar C., Jubi John, Sreejith Shankar P., Praveen V.K., Saju Pillai, Karunakaran V., and NIIST director A. Ajayaghosh.The significance of their achievement lies in the fact that the inks can now be manufactured in India.

“"We don’t claim that we have developed a wholly new technology, but the relevance of our research lies in the fact that this know-how is currently unavailable in India. We are importing fluorescent materials from companies based in countries such as Switzerland and France. Imports are expensive and fraught with security issues given the nature of the applications,” Dr. Vijayakumar, Principal Scientist, Chemical Sciences and Technology Division, NIIST, said.

“The technology is important because currency security is important for national security. The ability to indigenously manufacture such materials is key to preventing economic terrorism,” Dr. Ajayaghosh said. “Government of India and NITI-Aayog are keen on

developing the ability to manufacture them in India as part of the Atmanirbhar Bharat programme," he said.

What the NIIST team did was to identify molecules that can absorb UV light and emit different colours, and enhanced their stability.

A normal organic molecule will decompose over time under harsh conditions such as sunlight. But a currency note has to last for a certain period of time. A passport had to last longer, Dr. Vijayakumar, Principal Scientist, Chemical Sciences and Technology Division, NIIST, said.

NIIST scientists have been engaged in the research into fluorescent materials for the past 15-20 years. The specific work dealing with security printing materials was kicked off in 2016.

Given the need to continuously update such technologies, NIIST would continue with its research in this field, Dr. Ajayaghosh said.

Published in:
The Hindu

CSIR-IMMT

28th September, 2021

सीएसआईआर ने 80वां स्थापना दिवस मनाया

नवभारत ब्यूरो ❖ भुवनेश्वर.
www.navabharat.news

स्थानीय इंस्टीट्यूट ऑफ मिनरल्स एंड मटेरियल्स टेक्नोलाजी के ऑडिटोरियम में सीएसआईआर का 80वां स्थापना दिवस मनाया गया. ये स्थापना दिवस अवसर पर आईएमएमटी के निदेशक प्रोफेसर डॉ. सुधासत्व बासु उपस्थित सभी तिथियों को स्वागत किया. सीएसआईआर में 37 राष्ट्रीय टैबोरेटोरी, 39 आउटरिच सेंटर, 3 ईनोवेसन कॉम्प्लेक्स एवं पैन-इंडिया के उपस्थिति में 5 यूनिट है. सीएसआईआर के अनुभवी 3460 वैज्ञानिकों को लेकर गठित जो कि दुन 2021 तक 4350 साइंटिफिक एंड टेक्निकल कर्मचारियों के द्वारा समर्थित. इस महामारी लगाई गई पाबंदी के बावजूद हम 167 प्रोजेक्ट में काम कर रहे हैं जिसमें 87 नया प्रोजेक्ट था. एनएमडीसी हैदराबाद के चैयरमैन-कॉम-मैनेजिंग डायरेक्टर, सुमित देव मुख्य अतिथि के रूप में योगदान देकर सीएसआईआर-आईएमएमटी के कर्मचारी एवं अन्य अतिथियों को समावेश में संबोधित करके कहा कि, ये एक बहुत बड़ा यात्रा जहां सीएसआईआर विभिन्न क्षेत्र में अपना अनुसंधान जारी रखा है.

देश में सीएसआईआर के अवदान तारीख के काबिल है. इस अवसर पर आईएमएमटी की ओर से अभिव्यक्ति नाम का एक हिंदी पत्रिका का विमोचन किया गया. अवसर पर सीएसआईआर-आईएमएमटी एवं एनएमडीसी, हैदराबाद एवं सीएसआईआर-आईएमएमटी एवं भुवनेश्वर सीटी नलेज एंड इनोवेसन क्लॉस्टर के बीच एक एमओयू हस्ताक्षर किया गया. नालको के डायरेक्टर, डायरेक्टर-डिसनाल चार्ज मानस प्रसाद मिश्र ने ये समावेश को संबर्धित करके कहा कि, मैं बहुत खुश हूं, क्योंकि सीएसआईआर-आईएमएमटी के विभिन्न क्षेत्र में अपना अनुसंधान जारी रखा है. इस अवसर पर अतिथियों ने सीएसआईआर-आईएमएमटी में स्थित विभिन्न फैसिलिटी को घुमकर परिदर्शन किया एवं प्रमुख टेक्नोलाजी के प्रदर्शन को देखा. एनएमडीसी आरएंडडी सेंटर एवं सीएसआईआर-आईएमएमटी एवं लिन ग्रेड लौह पत्थर प्रक्रियाकरण में टेक्नोलाजी के विकास, कोयला, आदि के संयुक्त अनुसंधान एवं विकास प्रोजेक्ट को अनुसरण करने के लिए एमओयू हस्ताक्षर किया गया. ये कार्यक्रम सीएसआईआर फाउंडेशन डे आर्गेनाइजिंग कमेटी के चैयरमैन, चीफ साइन्टिस्ट डॉ. शोक कुमार साहू उपस्थित रहकर सभी अतिथियों को धन्यवाद दिया. इस अवसर पर ई-पोस्टर प्रतियोगिता के विजेताओं को पुरस्कार घोषणा किया गया.

Published in:
Navabharat

CSIR-CSMCRI

28th September, 2021

Celebration of 80th Foundation Day of CSIR on 26th Sept. at CSMCRI Bhavnagar

આગામી વર્ષો વધુ સારૂ કામ કરવા માટેની પ્રતિબધ્ધતા વ્યક્ત કરાઈ

CSMCRIએ સ્વદેશી ટેક્નોલોજી થકી અનેક મહત્વની પેટન્ટ મેળવી

સ્થાપના દિવસની ઉજણવી નિમિતે ડાયરેટકરનુ ઉદ્‌બોધન

| ભાવનગર |

ભાવનગરની CSIR - સેન્ટ્રલ સોલ્ટ એન્ડ મરીન કેમીકલ્સ રિસર્ચ ઈન્સ્ટીટ્યુટ (CSMCRI) માં રવિવારના સીએસઆઈઆરના ૮૦માં સ્થાપના દિવસની ઉજવણી ઓનલાઈન માધ્યમથી કરાઈ હતી. આ પ્રસંગે સંસ્થાના ડાયરેકટર ડો. કનુભન શ્રીનીવાસને જણાવ્યુ હતુ કે ,સ્વદેશી ટેકનોલોજી અને પધ્ધતિઓની દિશામાં ઘણી મહત્વની પેટન્ટ આગણના વર્ષમાં કરી છે.

આ અવસર પર મુખ્ય અતિથી તરીકે IIT, ગાંધીનગરના ડાયરેકટર પ્રો. સુધીર જૈને ઓનલાઈન હાજરી આપી હતી. તેમણે "એન્જીનિયરીંગ શિક્ષણ અને સંસ્થાના નિર્માણ અંગેના કેટલાક વિચારો" એ વિષય પર પોતાનું વકતવ્ય આપ્યું હતું. ડો. જૈને જણાવ્યુ હતું કે , સંસ્થામાં કાર્ય પ્રણાલી તથા આદર્શો ઉપર ભાર મૂકવો જોઈએ અને તેમણે સફળતાપૂર્વક સુધારેલ નિયમોની સંસ્થાની પ્રગતિ ઉપરની હકારાત્મક પરિણામો ઉપર ભાર મૂક્યો. તથા તેમણે શિક્ષણ, વિદ્યાર્થી ઘડતર તથા મહાવિદ્યાલયને સકારાત્મક રીતે સમાજ તથા ઉદ્યોગોના કલ્યાણ માટે સંચાલન કરવાના મુદ્દાઓ જણાવ્યા હતાં, જે તેમણે સફળતાપૂર્વક IIT, ગાંધીનગરમાં છેલ્લા ૧૨ વર્ષથી અપનાવેલ છે.

સંસ્થાના ડાયરેકટર ડો. કનુભન શ્રીનીવાસને જણાવ્યુ હતુ કે , સીએસઆઈઆર સંસ્થાના સ્થાપના દિવસનો મુખ્ય ઉદેશ સંસ્થાના વૈજ્ઞાનિકોએ કેટલા સંશોધન અવગત કરવવાનો છે. તેમણે જણાવ્યુ હતું કે સીએસએમસીઆરઆઈએ સ્વદેશી ટેકનોલોજી અને પધ્ધતિઓની દિશામાં ઘણી મહત્વની પેટન્ટ આગણના વર્ષમાં કરી છે તથા સરેરાશ રેપ્યુટેડ જર્નલ્સનો ઈમ્પેક્ટ ફેક્ટર પણ વધીને ૫.૨ થયો છે. આ બદલ સંસ્થાના નિદેશકે વૈજ્ઞાનિકો તથા રિસર્ચ સ્કોલરને અભિનંદન પાઠવ્યા હતા અને આવતા વર્ષમાં વધુમાં વધુ ઉધ્યોગોને લગતી ટેકનોલોજી અને પ્રોજેકટ ના સમાજને ઉપયોગી પરિણામો લાવવા માટે પ્રોત્સાહન આપ્યું હતું. તેમણે જણાવ્યુ હતું કે સંસ્થાએ જિજ્ઞાસા પ્રોગ્રામ અંતર્ગત ૫૦૦ થી વધુ શાળાના વિદ્યાર્થીઓને ટેકનોલોજીને લગતા ઓનલાઈન લેકચર ૪૦ થી વધારે વૈજ્ઞાનિકો દ્વારા આપવામાં આવ્યા હતા.

સંસ્થાના મુખ્ય વૈજ્ઞાનિક ડો.બિશ્વજીત ગાંગુલી તથા વરિષ્ઠ પ્રધાન વૈજ્ઞાનિક ડો. વિનોદ કે. શાહીના ચેરમેનશિપ હેઠળ તથા ડો. પ્રધાન વૈજ્ઞાનિક ડો. અંકુર ગોયલ અને તેમની ટીમના સફળ સંચાલન હેઠળ સ્થાપના દિવસની ઉજવણી કરવામાં આવી હતી. આલોક કુમાર, પ્રશાસનિક અધિકારી એ આભારવિધિ કરીને સર્વેને ૮૦માં સીએસઆઈઆર સ્થાપના દિવસના અભિનંદન પાઠવ્યા હતા. સંસ્થાના વૈજ્ઞાનિક ડો. પારૂલ સાહુએ કાર્યક્રમનું સંચાલન સફળતાપુર્વક પુરુ પાડેલુ. પ્રિન્સિપાલ સાયંટિસ્ટ ડો. પ્રતાપ ભાપટ તથા સિનિયર સાયંટિસ્ટ ભૂપેન્દ્ર મરકમના અવિરત પ્રયાસો દ્વારા કાર્યક્રમને સફળ બનાવવામાં આવ્યો હતો.

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Sandesh

CSIR-CSMCRI

28th September, 2021

YSA-2021 award to CSMCRI's scientist Dr Shilpi Kushwaha

ભાવનગરના ડૉ. શિલ્પી કુશવાહને દેશનો યંગ સાયન્ટીસ એવોર્ડ એનાયત

દિલ્હી ખાતે ઉપરાષ્ટ્રપતિ વેંકૈયા નાયડુના હસ્તે એવોર્ડ અપાયો

ભાવનગરની સેન્ટ્રલ સોલ્ટ એન્ડ મરીન કેમીકલ્સ રિસર્ચ ઈન્સ્ટીટ્યુટના ડો.શિલ્પી કુશવાહને એવોર્ડ ઉપરાષ્ટ્રપતિ વેંકૈયા નાયુડના હસ્તે એનાયત કરાયો હતો. અલગ અલગ જગ્યાએથી યુરેનિયમ કેવી રીતે કાઢી શકાય તેના ઉપર કરાયેલા સંશોધન બદલ એવોર્ડ અપાયો હતો. વૈજ્ઞાનિકોને પ્લેટફોર્મ પુરૂ પાડવા ઉપરાંત વિવિધ વૈજ્ઞાનિક સંશોધનો કરવામાં મદદરૂપ થતી ભાવનગરની જાણીતી સંસ્થા સન્ટ્રેલ સોલ્ટ એન્ડ મરીન કેમીકલ્સ રિસર્ચ ઈન્સ્ટીટ્યુટ (સી. આર.સી.)ના યુવા વૈજ્ઞાનિક ડો.શિલ્પી કુશવાહને મળેલો એવોર્ડ ભાવનગર માટે ગૌરવની વાત કહી શકાય. વૈજ્ઞાનિક ક્ષેત્રે વૈજ્ઞાનિક સંશોધન કરનાર યુવાન સાયન્ટીસ એવોર્ડ આપવામાં આવે છે. જે અંતર્ગત દેશના ૬ જેટલા વૈજ્ઞાનિકોને એવોર્ડ આપવાનો સમારોહ તાજેતરમાં દિલ્હી ખાતે યોજાયો હતો. જેમાં પર્યાવરણ સમુદ્ર સહિત અલગ અલગ જગ્યાએથી યુરેનિયમ કેવી રીતે શોધી શકાય એ અંગેની કામગીરી બદલ નવાજવામાં આવ્યા હતાં.ડો.શિલ્પી કુશવાહક વડોદરાની સૈયાજીરાવ યુનિવર્સિટીમાં રસાયણ શાસ્ત્રમાં પી.એચડી. થયા છે.

Published in:

Sandesh, Saurashtra AssPass, Lok Sansar, Pagdandi, Shankhnad The Voice

CSIR-CMERI

28th September, 2021

प्रतियोगिता **प्रो. एसके जोशी मेमोरियल इनविटेशनल कप-2021 हुआ सम्पन्न**

ईस्टर्न कोलफील्ड्स लिमिटेड ने मारी बाजी

➲ **रैपिड एक्शन फोर्स बटालियन (डब्ल्यूबी) को हरा कर कप पर जमाया कब्जा**

दुर्गापुर. प्रो. एसके जोशी मेमोरियल इनविटेशनल कप-2021 सोमवार को सम्पन्न हुआ. दुर्गापुर नगर निगम के मेयर दिलीप कुमार अगस्ती, सीएसआइआर-सीएमईआइआर के निदेशक प्रो हरीश हिरानी और भारतीय स्टेट बैंक के उप महाप्रबंधक अजीत कुमार पोद्दार व अन्य विशिष्ट अतिथियों की उपस्थिति में ग्रैंड फिनाले मैच आयोजित हुआ. रैपिड एक्शन फोर्स बटालियन-(डब्ल्यूबी) और ईस्टर्न कोलफील्ड्स लिमिटेड के बीच ग्रैंड फिनाले मैच हुआ. ईस्टर्न कोलफील्ड्स लिमिटेड चैंपियंस ऑफ द टूर्नामेंट के रूप में उभरा.

इस मौके पर दुर्गापुर के मेयर दिलीप कुमार अगस्ती ने उपस्थित लोगों को संबोधित करते हुए कहा कि प्रो हरीश हिरानी के गतिशील, बुद्धिमान और समन्वित नेतृत्व में, सीएसआइआर-सीएमईआरआइ ने नयी ऊंचाइयों को छुआ है और विज्ञान व प्रौद्योगिकी के माध्यम से राष्ट्र के सामाजिक-आर्थिक उत्थान में महत्वपूर्ण भूमिका निभायी है. सीएसआइआर-सीएमईआरआइ के निदेशक प्रो. हरीश हिरानी ने अतिथियों को धन्यवाद दिया और खेल भावना के अनुकरणीय प्रदर्शन के लिए चैंपियंस और उपविजेता दोनों को बधाई दी.

उन्होंने कहा कि वर्तमान कोविड स्थिति के दौरान एक स्पोर्टिंग मेगा इवेंट की मेजबानी करना एक बड़ी चुनौती थी. सीएसआइआर-सीएमईआरआइ ने किसी भी प्रकार की स्थिति से निपटने के लिए चौबीसों घंटे चिकित्सा बुनियादी ढांचे के साथ समर्पित चिकित्साकर्मियों की एक टीम तैनात की थी. ऑक्सीजन पार्लर स्थापित किये गये थे.

इस अवसर पर भारतीय स्टेट बैंक के उप महाप्रबंधक अजीत कुमार पोद्दार ने साझा किया कि इस तरह के एक खेल आयोजन का प्रदर्शन करके, सीएसआइआर-सीएमईआरआइ ने जबरदस्त लचीलापन दिखाया है और हमें एक सामान्य जीवन जीने की दिशा में आगे बढ़ने का रास्ता दिखाया है.

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Prabhat Khabar

CSIR-CMERI

28th September, 2021

Prof S K Joshi Memorial Invitational Cup football final

MI News Service, Durgapur/ Kolkata: The Prof. S.K. Joshi Memorial Invitational Cup-2021 (SKJMIC) concluded on September 26th with Grand Finale Match held in distinguished presence of Dr. Dilip Kumar Agasty, Mayor, Durgapur Municipal Corporation, Prof. Harish Hirani, Director, CSIR-CMERI and Ajit Kumar Poddar, DGM, State Bank of India. The Grand Finale Match was held between Rapid Action Force Battalion-W.B. and Eastern Coalfields Limited. Eastern Coalfields Limited emerged as the Champions of the Tournament.

Dr. Dilip Kumar Agasty, Mayor, Durgapur Municipal Corporation, while delivering his Chief Guest Address on the event shared that under the dynamic, intelligent and coordinated leadership of Prof. Harish Hirani, CSIR-CMERI has scaled new heights and has played a pivotal position in Socio-Economic upliftment of the Nation through Science and Technology. Organizing an event of such scale and especially so during the current pandemic times require a lot of determination. Dr. Agasty congratulated Prof. Hirani for his statesmanship and shared as he had earlier been a part of the CSIR-CMERI efforts in the domain of Solar Energy and Solid Waste Management, he will keep supporting such efforts of CSIR-CMERI throughout his Life.

Prof. Harish Hirani, Director, CSIR-CMERI congratulated both Champions and Runners-Up for exemplary showcasing of Sportsmanship. Hosting a Sporting Mega Event during current COVID situation was a humongous challenge. CSIR-CMERI deployed a Team of dedicated Medical Personnel with round-the-clock Medical Infrastructure to handle any kind of situation. Indigenously developed Oxygen Parlors were set-up to help the Footballers Rejuvenate and negate the ill-effects of Fatigue. Live-Streaming of all the Football matches were done to ensure that all can enjoy the Footballing Action from the comfort of their home. The organizing of the Prof. S.K. Joshi Memorial Invitational Cup-2021 by CSIR-CMERI has showcased that any eventuality can be tactfully handled by Science and any imposing Challenge may be overcome through a 'Spirit of Collaboration'. CSIR-CMERI has shown tremendous resilience by displaying how Pandemic-Phobia can be adequately addressed through strategic-planning and Science.

Ajit Kumar Poddar, DGM, State Bank of India, on the occasion shared that by showcasing a Sporting Event of such scale, CSIR-CMERI has exhibited tremendous resilience and has shown us the way forward towards Leading a Normal Life. Poddar thanked CSIR-CMERI for giving State Bank of India the opportunity to be a part of this Mega Event and expressed that State Bank of India as an organization will always support such Events which takes our Society forward in overcoming challenges.

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Morning India, The Echo Of India

CEO Roundtable Meet Organized By CSIR-NBRI And CSIR-IITR

CSIR-NBRI, IITR

27th September, 2021

September 27: As a Part of CSIR's 80th Foundation Day celebration, the National Botanical Research Institute (CSIR-NBRI) and the Indian Institute of Toxicology Research (CSIR-IITR) are organizing CEOs Roundtable Meet. The Council of Scientific & Industrial Research (CSIR), known for its cutting-edge R&D knowledge base in diverse Science &Technology areas, has been providing technological solutions for the country since 1942. CSIR has a dynamic network of 37 national laboratories, 39 outreach centres, 3 Innovation Complexes, and five units with a pan-India presence.

Over the years, scientists of CSIR-NBRI & CSIR-IITR have developed several technologies and products of industrial and social relevance. However, many of these technologies developed during the five years are yet to be transferred to the industry. Keeping this in mind, the roundtable meeting has been organized involving the industry leaders from different parts of the country. Dr. Mahendra Singh, Hon'ble Minister of Jal Shakti, Government of Uttar Pradesh, was the Chief Guest and inaugurated the program. He emphasized the need for a research institution and industry collaboration to take the country forward.

Welcoming the guests and industry participants, Prof. SK Barik, Director, CSIR-NBRI and CSIR-IITR, informed that this meet is focused on strengthening the partnership between industry and R&D institutions. He emphasized the need for Government-Industry Collaboration to make India Self-Reliant / to make Bharat AtmaNirbhar. The round table meet will be helpful to establish an effective collaboration of CSIR Labs with the prospective

entrepreneurs, start-ups, and industry persons. “Being a scientific institution, our products and technologies must reach to ground level for the betterment of the society. Most of these technologies have been developed during the past three years with substantial innovation component”. said Prof. SK Barik.

The meet would also provide an opportunity for one-to-one engagements with mentors, experts, investors, and service providers. The event is intended to showcase the cutting-edge technology, research, innovation, and start-ups coming out of the Institute Ecosystem, he added. Most of these technologies have been developed during the past three years with substantial innovation components.

Mr. Vinayak Nath, Co-Chair, CITAR, CSIR-IITR discussed in his keynote the Need for Scientist- Industry Collaboration for making India a 5 trillion Economy. He further added that to achieve 5 trillion economies, we need to set the target for Agriculture and Startups with a respective target of 1 trillion economies. He also mentioned the importance of Agriculture and start-up collaboration. He appealed to the scientists to work for solutions to the problems that the industry and the country are facing.

A total of 12 MoUs were signed on occasion by different companies for products and technologies developed by CSIR-IITR and NBRI. The NBRI signed 6 MoUs with Mark Laboratories, M21 Breweries Pvt Ltd, Tansukh Herbal Pvt Ltd, Aashvi Technologies LLP, Kalob Organics LLP, and Ultra International Ltd. NBRI also signed an MoU with IFFCO for Collaborative Research in the field of Agriculture and Bio-Stimulants. The IITR signed 6 Memorandum of Collaborations with Ramky Enviro Engineers Limited, Toshiba Water Solutions, Tata Motors, Ultra International Limited, Yash Pakka, Faizabad, Khanna Paper Mills. On this occasion, the inventor, scientists, and business development groups of both the institutions were present.

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Ed Times

CDRI to expand sero testing for corona antibodies in Uttar Pradesh

CSIR-CDRI 27th September, 2021

LUCKNOW: CSIR-Central Drug Research Institute is likely to expand its serological testing for antibodies against coronavirus (SARSCoV-2) to the state level. The institute will request the government to provide more Covid-19 samples so that the study can be conducted at the state level.

The institute had conducted a sero survey of its employees last year in which it was found that around 6% had contracted novel coronavirus infection at some point in time but recovered without even knowing that they were carrying the virus.

"We have got full government support in conducting Covid-19 research and now we want to do the sero survey at the state level. The diagnostic laboratory of the institute has contributed immensely by screening over 3 lakh patient samples," said director Prof Tapas Kundu.

He said the institute has also developed an indigenous RT-PCR kit where the fluorophores have been developed at the institute. The institute is also carrying out whole-genome analysis of virus strains from several hundred patients as requested by the state government. These studies are helping analyse the spread of various SARS-Cov2 strains in the state, he added.

"Keeping in mind the emerging viral infections, CDRI has established a 'Unit of Excellence in Virus Research and Therapeutics' under the guidance of chief minister Yogi Adityanath who encouraged AKTU and KGMU to collaborate with CDRI on this initiative," he added.

Published in:
Times Of India

Palampur: CSIR marks 80th foundation day

CSIR-IHBT 27th September, 2021

The CSIR-Himalayan Institute of Bio-resource Technology, Palampur, celebrated the 80th foundation day of the the Council of Scientific and Industrial Research (CSIR) today.

The CSIR has an effective network of 37 national laboratories across India. Presently, the council has about 12,500 scientific, technical and administrative personnel.

Chief guest Prof RK Khandal, fellow at Royal Society of Chemistry, London, and president (business development) of India Glycols Limited, Noida, delivered a lecture on 'Changing industrial trends: increasing demand for renewable chemicals'.

He threw light on clean energy, eco-friendly technology and making new and renewable chemicals using waste materials.

Published in:
Tribune India

Venkaiah, Dr Jitendra address CSIR foundation day, IIIM Jammu wins national award

CSIR-NPL, IIIM

27th September, 2021

New Delhi, Sep 26: The Council Of Scientific and Industrial Research (CSIR) Sunday celebrated its 80th foundation day. The function was held at National Physical Laboratory (NPL), one of India's oldest CSIR laboratories, and was addressed by the Vice President of India, Venkaiah Naidu as Chief Guest and Union Minister for Science & Technology, Dr Jitendra Singh as Guest of Honour.

The official spokesperson said that on the occasion, the CSIR awards were presented in different categories, including young scientists, innovations by school children, Life-Time achievement and for distinguished work of the year to the outstanding among the 37 CSIR laboratories spread across the country.

Indian Institute of Integrative Medicine (IIIM) Jammu, which was established in 1940s by Sir Ram Nath Chopra, won the National award for initiating the "Purple Revolution" of India and thus, redefining and reshaping the entire profile of agriculture entrepreneurship for the years to come.

During the last one year, IIIM Jammu has supported a number of young startups to undertake lavender farming; as a result, young agriculturists from different parts of the country are approaching this institute to begin Startups in agriculture.

Speaking on the occasion, Venkaiah Naidu lauded Prime Minister Narendra Modi's approach of "Reform, Perform and Transform". He also appreciated Dr Jitendra Singh for his wide

knowledge in different fields. Expressing his keen interest in scientific research and encouraging the young scientists, the Vice President of India said, he has undertaken a plan to visit various scientific institutes across India including CSIR laboratories, IITs etc., where he is interacting with scientists from different spheres. He said he was particularly impressed with some of the women scientists.

Dr Jitendra Singh said, “We should not restrict our ambition to be best in India but be best in the world as India is blessed with the demographic dividend of youth and they can take up any challenge with the right training and motivation”.

Dr Jitendra Singh said, as the nation is celebrating the ‘Azadi ka Amrit Mahostav’, the combined strength of CSIR, DBT, DST and MoES along with other science ministries can indeed transform the entire country in the next 25 years as the entire progress is going to remain heavily technology dependant. He said, when India turns 100, it should be a global leader ranging from Defence to Economics with strong scientific and technological inputs.

Dr Jitendra Singh said that under Prime Minister Narendra Modi’s leadership Science and Technology got enhanced budget and a very special impetus in the last 7 years and the scientific pursuits and endeavors are now being assigned special importance.

He said, the ultimate goal of all Scientific Innovations is to bring “Ease of Living” for the common man and pointed out that with this aim in mind Prime Minister took decision to unlock India's potential in Space Sector, thus paving the way to transform skill, capacity and creativity to make the country self-reliant and technologically advanced. Similarly, the country's atomic energy field was shut behind a veil of secrecy and it was only PM Modi who gave the permission to expand India’s nuclear programme.

Lauding the 80-year successful journey of CSIR, Dr Jitendra Singh said, it is heartening to see the evolution of CSIR from developing India’s first Indelible Ink used in elections to providing Indian Standard time using Atomic Clocks today. From the development of Swaraj

Tractor to the recent test flying of HANSA-NG is a testament to the growth of CSIR in the last eight decades, he added. Referring to the Aroma Mission of CSIR, the Minister said, it has made a difference in the lives of thousands of farmers across India and especially in Kashmir. He said, CSIR's Aroma Mission introduced a superior variety of lavender in Kashmir, and today, a Purple Revolution is underway in Kashmir. He also mentioned that CSIR has introduced Heeng cultivation in India for the first time and introduced Saffron in non-traditional areas, apart from its well-known mark in the area of menthol mint.

Dr Jitendra Singh said, scientific organisations in the country cannot work in silos anymore and the collaborations should look beyond partnerships between organisations in the same area of research. He said, scientists should move from intra-disciplinary silos to interdisciplinary and multidisciplinary research. The Minister informed that in the last two m0nths, he has taken the initiative of calling joint meetings of 8 odd Science Ministries and Departments to brainstorm on theme based solutions that have bearing on fields like health, education, infrastructure, mobility and climate change.

Finally, Dr Jitendra Singh congratulated all the scientists, researchers and students who have won the prestigious Shanti Swaroop Bhatnagar Prizes and said that the accolades will further motivate the recipients to continue their excellent work and inspire those around them. The Minister said, he was really delighted to see the power of innovation among the winners of CSIR Innovation Award for School Children. He said, they will be the future entrepreneurs, industry leaders, scientists and professors.

Published in:
Rising Kashmir

CCMB study detects gene suppression in COVID-19 patients as reason for loss of taste and sense of smell

CSIR-CCMB

27th September, 2021

At the height of both waves of the COVID-19 pandemic, health care workers and scientists were keenly looking at two key clinical symptoms: a loss of the olfactory (smell) and gustation (taste) receptors. The loss of both receptors, and their associated pathways, were a major correlate of the COVID-19 infection.

Geneticists at the Centre for Cellular and Molecular Biology (CCMB) in Hyderabad have now published a study on the reasons why some people infected with the SARS-CoV-2 virus tend to lose their sense of smell and taste. The researchers have indicated that genes associated with the olfactory and gustation functions become suppressed, causing COVID-19 positive patients to lose their ability to smell and taste. The study found that genes associated with crucial body functions, including those of the respiratory system, the heart, the endocrine system and the nervous system, were also suppressed or lowered.

The CCMB study, which was published on September 21 in the open access Wiley Online Library, revealed that the SARS-CoV-2 virus tended to react with genes leading to 'downregulation' or 'upregulation' of some of them. While downregulation is the process by which a cell decreases the quantity of a cellular component, such as RNA or protein, in response to an external stimulus, upregulation is an increase in these components. Both downregulation and upregulation disrupt the functioning of the body. The study revealed that while upregulation was found in the immune response genes and resulted in an increase in the amount of inflammation, downregulation was witnessed in genes responsible for neurotransmission, neurological, cardiovascular, and muscular contraction.

The study involved investigating the genetic changes in 36 COVID-19 patients, ranging from those needing critical and intensive care intervention to those treated at the ward-level, during the pandemic's first wave. Five COVID-19 negative samples were also analysed. Researchers

of the study said that studies such as theirs were useful for scientists to not only compare host responses in the current and subsequent waves of the pandemic but also come up with therapeutic solutions.

Stated the researchers: “We also found robust activation of the innate immune response associated with a reduction in the gene expression profiles associated with cardiac, muscular, and neurological processes, as well as peripheral neurosensory markers.” They added: “In conclusion, we have documented significantly misregulated genes and associated pathways during the SARS-CoV-2 infection in Indian patients. Our results highlight a commonly upregulated network of innate immune response genes and an absence of hyper-inflammatory markers.”

Published in:
The Hindu

NMDC, CSIR-IMMT to collaborate on R&D projects

CSIR-IMMT 27th September, 2021

Mining major NMDC's Research and Development Centre and CSIR-Institute of Minerals and Materials Technology (IMMT) have entered into a memorandum of understanding to pursue joint research and development projects.

Development of indigenous technology for making Indian mineral industry self-reliant will be the primary focus of their collaboration. The vast knowledge and experience of CSIR-IMMT and NMDC R&D centre is to be utilised for research in the area of low and lean grade iron ore processing, beneficiation of coal, utilisation of mines waste, slurry transportation and recovery of Tungsten.

NMDC R&D Centre was set up in 1996 and has been recognised as a Centre of Excellence in the field of mineral processing by UNIDO, the public sector company said in a release on Monday. GM (R&D) of NMDC S. K. Chaurasiya and Chief Scientist and Head SPBD of CSIR-IMMT Ashok Sahu signed the MoU in the presence of NMDC CMD Sumit Deb and CSIR-IMMT Director S. Basu on September 26 at IMMT Bhubaneswar.

"While the Indian mining sector enters an era of self-reliance, NMDC is making investments to enhance the use of indigenous technology in mining. This collaboration with CSIR-IMMT is a significant step in that direction," Mr. Deb said.

Published in:
The Hindu

CSIR-CMERI

27th September, 2021

सीएसआइआर का 80वां स्थापना दिवस मनाया

कार्यक्रम को संबोधित करते प्रो. हिरानी.

वैज्ञानिकों, तकनीकी कर्मियों और प्रशासनिक अधिकारियों के योगदान को किया स्वीकार

दुर्गापुर. सीएसआइआर-सीएमईआरआइ दुर्गापुर ने संस्थान में रविवार को 80वां सीएसआइआर स्थापना दिवस मनाया. इस अवसर पर सीएसआइआर-सीएमईआरआइ के निदेशक प्रो. (डॉ.) हरीश हिरानी ने संस्थान के कर्मचारियों को संबोधित किया. उन्होंने संस्थान के वैज्ञानिकों, तकनीकी कर्मियों और प्रशासनिक अधिकारियों के योगदान को स्वीकार किया और उन्हें देश में जमीनी स्तर पर लोगों के सामाजिक आर्थिक उत्थान के लिए एक टीम में काम करने के लिए प्रेरित किया. उन्होंने संस्थान के साथ-साथ कॉलोनी परिसर में हाल ही में विकसित विश्व स्तरीय बुनियादी ढांचे, सुविधाओं और काम करने के माहौल का भी उल्लेख किया, ताकि प्रतिभा को आकर्षित किया जा सके और उन्हें पूरे दिल से काम करने के लिए प्रेरित किया जा सके. उन्होंने बताया कि सीएसआइआर-सीएमईआरआइ ने ऑक्सीजन संवर्धन इकाई विकसित की, जिसकी तकनीक देश भर में 13 कंपनियों को हस्तांतरित की गयी, जो महामारी की अवधि के दौरान ऑक्सीजन संकट की सेवा में मदद करने के लिए संस्थान में विकसित महत्वपूर्ण तकनीक में से एक है.

Published in:

Prabhat Khabar, Dainik Jagran

CSIR-CMERI

27th September, 2021

CSIR-CMERI celebrates 80th foundation day

MI News Service, Durgapur/ Kolkata: CSIR-CMERI Durgapur celebrated 80th CSIR Foundation Day on September 26th at the Institute. on the occasion Prof. (Dr.) Harish Hirani, Director, CSIR-CMERI addressed the employees of the Institute. The programme was observed following Appropriate COVID protocols .

He acknowledged the contributions of Scientists, Technical Personnel and Administrative officials of the Institute & also motivated them to work in a team further for socio economic upliftment of people at grass root in the country. He also mentioned about the recently developed world

class infrastructure, amenities and working ambience provided at Institute as well as in the Colony premises to attract the talent and motivate them to work whole heartedly.

CSIR-CMERI developed Oxygen Enrichment Unit, the technology of which was transferred to 13 companies across the country is one of the significant technology recently developed by the Institute to help serve the Oxygen crisis during the recent pandemic period. Prof Hirani in his number of interactions with the medical professionals advocated its superiority over a number of similarly available products like Oxygen Concentrators in the market which were duly acknowledged by their fraternity. The Institute is further working on the advanced features and Hybrid system for its varied usages.

Water Purification Technology is another area in which there is a great potential for CSIR-CMERI. The Institute has already transferred 67 technologies to different companies across various regions of the country.. The Institute has developed a full fledged State of the Art Water Testing Laboratory which has been duly approved by the appropriate authority and is working relentlessly to fulfil the vision of the Government of India for Safe Drinking Water and Har Ghar Jal etc.

For minimizing our dependence over LPG and fossil fuel, the Institute under the instructions of the PMO has developed Solar Chulha. The same technology already been transferred to two companies. CSIR-CMERI Guest House has already been shifted 100 % to this renewable source and the Canteen is also converted to it up to 80 % at the moment.

Mechanized Drain Cleaning system is another recent technology of the Institute from the call of the Hon'ble Prime Minister's Office to alleviate the lives of the people involved in the manual scavenging in the country. Through development of three modules of Mob Control Vehicle and some other projects of strategic importance, the Institute is contributing immensely through its R&D work to the Para Military and strategic sector of the country.

Published in:

Morning India

CSIR-CSMCRI 27th September, 2021

Celebration of Jigyasa outreach program under the umbrella of Azadi ka Amrit Mohatsav with JNV schools at Diu, Bhavnagar and Amreli

CSIR-CSMCRI, ભાવનગર દ્વારા

વિજ્ઞાન જ્યોતિ-CSIR- જિજ્ઞાસા અંતર્ગત સ્વતંત્રતા ઉત્સવના અમૃતને ચિત્તિત કરવા માટે વેબિનર

ભાવનગર,તા.૨૫

સી એસ આઈ આર- સેન્ટ્રલ સોલ્ટ એન્ડ મરીન કેમિકલ્સ રિસર્ચ ઈન્સ્ટિટ્યૂટ, ભાવનગર દ્વારા ૨૫ સપ્ટેમ્બર ૨૦૨૧ ના ??રોજ "ધ મલ્ટીપલ કેસિસ ઓફ કેટાલિસિસ: નાની વસ્તુઓ ની મોટી અસર પડી શકે છે" નું આયોજન કરવામાં આવ્યું હતું. ૭૫ મી સ્વતંત્રતા વર્ષ દરમિયાન ઉજવાયેલા આઝાદીના અમૃત મહોત્સવ, સી એસ આઈ આર- જિજ્ઞાશા અને વિજ્ઞાન જ્યોતિ કાર્યક્રમ અંતર્ગત ભારત સરકાર દ્વારા આ સેમિનારનું આયોજન કરવામાં આવ્યું હતું. કાર્યક્રમનો પ્રારંભ શ્રી ઉમેશ કુમાર, વિજ્ઞાન જ્યોતિ પ્રોજેક્ટ ઈન્વેસ્ટિગેટર, જવાહર નવોદય વિદ્યાલય, દીવ દ્વારા કરવામાં આવ્યો હતો. આ કાર્યક્રમમાં ડૉ. ડુંગર રામ ચૌધરી, આચાર્ય વૈજ્ઞાનિક અને સીએસઆઈઆર- જિજ્ઞાસા પ્રોજેક્ટ ઈન્વેસ્ટિગેટરએ તમામ જવાહર નવોદય વિદ્યાલયના આચાર્યો, વિજ્ઞાન જ્યોતિ પ્રોજેક્ટ તપાસકર્તાઓ, શિક્ષકો અને વિદ્યાર્થીઓનું સ્વાગત કર્યું હતું. ડો.ચૌધરીએ

વિદ્યાર્થીઓને જગદીશચંદ્ર બોઝના જીવન અને વિજ્ઞાન ની દુનિયામાં તેમના યોગદાન વિશે જણાવ્યું હતું. ડો.ચૌધરીએ તેમના દ્વારા કરેલી શોધો જેવી કે વાયરલેરા સિગ્નલો મોકલવા, રેડિયો તરંગો, સેમિકન્ડક્ટર્સ વગેરે વિશે વિસ્તૃત માહિતી આપી. આ સાથે, જગદીશચંદ્ર બોઝે વિવિધ ઉત્તેજનાઓ પર છોડની પ્રતિક્રિયાના પ્રયોગો વિશે જણાવ્યું, જેમાં છોડમાં પણ પ્રાણીઓની જેમ સંવેદના હોય છે.કાર્યક્રમના મુખ્ય વક્તા ડૉ.સરવાનન એસ. વૈજ્ઞાનિક, સી એસ આઈ આર- સેન્ટ્રલ સોલ્ટ એન્ડ મરીન કેમિકલ્સ રિસર્ચ ઈન્સ્ટિટ્યૂટ માથી હતા. વિદ્યાર્થીઓને દૈનિક જીવનમાં કેટાલિસિસના ઉપયોગ વિશે વિસ્તૃત માહિતી આપવામાં આવી હતી. તેમણે કહ્યું કે ૮૦-૯૦% રાસાયણિક ઉત્પાદનો ઉત્પ્રેરકનો ઉપયોગ કરે છે. કાર્બન ડાયોક્સાઈડ, જે ગ્રીનહાઉસ ગેસ છે અને ગ્લોબલ વોર્મિંગનું કારણ છે, તેને ઉત્પ્રેરકની મદદથી કાર્બોનેટ, પોલી-કાર્બોનેટ અને કાર્બોક્સિલિક એસિડ જેવા ઉત્પાદનોમાં રૂપાંતરિત કરી શકાય છે. તેવી જ રીતે હવામાં હાજર નાઈટ્રોજનનો ઉપયોગ યુરીયા જેવા રાસાયણિક ખાતરોના ઉત્પાદનમાં ઉત્પ્રેરક દ્વારા થાય છે. વિદ્યાર્થીઓએ તેમની જિજ્ઞાશા મુજબ પ્રશ્નો પૂછ્યા હતા, જે ડો.સરવનને ખૂબ જ રસપ્રદ રીતે ઉકેલ્યા હતા. જવાહર નવોદય વિદ્યાલય (દીવ, ભાવનગર અને અમરેલી), કેન્દ્રીય વિદ્યાલય, દીવ અને સરકારી ઉચ્ચતર માધ્યમિક શાળા, દીવના વિદ્યાર્થીઓએ આ કાર્યક્રમમાં ભાગ લીધો હતો. કાર્યક્રમનું સમાપન કરતી વખતે, ભાવનગરના જવાહર નવોદય વિદ્યાલયના શિક્ષક શ્રી અનિલ કુમાર મીણાએ આભાર વ્યક્ત કરતા જણાવ્યું હતું કે આ કાર્યક્રમથી વિદ્યાર્થીઓને ઘણો લાભ મળશે.

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CSIR-IMMT

27th September, 2021

CSIR-IMMT celebrates 80th foundation day

POST NEWS NETWORK

Bhubaneswar, Sept 26: CSIR-Institute of Minerals and Materials Technology (IMMT) Bhubaneswar Sunday observed the 80th foundation day of the parent body CSIR on the premises of the institute here. On the occasion, the chairman-cum-managing director of NMDC Ltd Hyderabad, Sumit Deb, said that CSIR showcased the excellence in research in various technical sectors. Deb emphasised on enhancement of mining sector and advancement and acceptance of research in different sectors like coal, iron ore, green steel and others.

IMMT director Suddhasatwa Basu was also present on the occasion. CSIR-IMMT and NMDC, Hyderabad signed an MoU to pursue joint research & development projects like technology development in the area of low & lean grade iron ore processing, coal, kimberlite waste, utilisation of iron fines waste and tungsten.

Published in:

Orissa Post, New Indian Express

Hyderabad: IICT team bags CSIR Technology Award 2021

CSIR-IICT

26th September, 2021

Hyderabad: The Council of Scientific & Industrial Research (CSIR) – Indian Institute of Chemical Technology (IICT), Hyderabad, team led by director Dr. S Chandrasekhar has been awarded the CSIR Technology Award 2021 for outstanding contributions to the affordable healthcare.

The team has developed a cost-effective and scalable process for the synthesis of TLR 7/8 agonist molecule (IMDG) used as an adjuvant in Covaxin (Covid-19 vaccine).

The awards were announced on Sunday during the 80th CSIR Foundation Day celebrations held at CSIR, New Delhi in presence of Vice President M Venkaiah Naidu and Union Minister for S&T and ES Dr. Jitendra Singh.

Other team members of the award include Dr. Ch Raji Reddy, Dr. Prathama Mainkar, Dr. M Mohana Krishna Reddy, Dr. P Nagender and Dr. N Jagadeesh Babu, a press release said. The technology helped Bharath Biotech India Limited to upscale the production of the vaccine to cater the immunization against Covid-19 for crores of people in India and abroad, the press release added.

The team worked towards a process that made use of indigenous raw materials in the midst of global restrictions to control the current pandemic when a deterrent for imports from other countries was prevailing.

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Telangana Today

NIIST wins award

CSIR-NIIST 26th September, 2021

The CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) here won laurels on Sunday at the 80th Foundation Day celebrations of the CSIR held in New Delhi. NIIST bagged the coveted CSIR Award for Science and Technology Innovations for Rural Development (CAIRD) for developing bio-degradable plates and cutlery from agro-residues such as rice husk and wheat bran.

CAIRD carries a purse of ₹10 lakh, a citation and plaque. Achu Chandran of the NIIST won the CSIR Young Scientist Award 2021 for developing printed electronic materials and devices for strategic and societal applications.

The institute was also awarded the Certificate of Merit (under CSIR Technology Awards) for developing fluorescent molecules and ink as security markers for the protection of currency.

CAIRD, which carries a purse of ₹10 lakh, a citation and plaque, recognises outstanding innovations and solutions that can transform the lives of rural population, alleviate their drudgery, or generate employment.

NIIST had developed 100% biodegradable tableware from agricultural residues as a viable alternative to single-use plastics.

NIIST scientists showed that plates, cutlery and cups can be produced from agro-waste and byproducts such as wheat bran, rice husk, corn husk, sugarcane bagasse, fruit peel, banana stem and pineapple leaves. These environment-friendly products are affordable, possess a long shelf life and are resistant to fungus and bacteria.

NIIST director A. Ajayaghosh credited the achievements to the hard work put in by the

NIIST scientists and staff. “This year is special for us as we have won three accolades at the foundation day celebrations. This is also the third consecutive year that NIIST is bringing home the young scientists award,” Dr. Ajayaghosh said.

Sasidhar B. S. and Suraj Soman of the NIIST had won the Young Scientists awards in 2019 and 2020 respectively.

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The Hindu

CSIR-CFTRI

26th September, 2021

Sri. Giriraj Singh, Hon'ble Union Minister interaction with farmers group at CFTRI on 24 Sept.

ಗ್ರಾಮೀಣ ಅಭಿವೃದ್ಧಿ ಸಚಿವರೊಂದಿಗೆ ರೈತರ ಕಂಪನಿ ಪ್ರಗತಿ ಕುರಿತಂತೆ ಚರ್ಚೆ

ಮೈಸೂರು: ಮೈಸೂರಿನ ಸಿಎಫ್‌ಟಿಆರ್ ಐನಲ್ಲಿ ರೈತಮಿತ್ರ ರೈತ ಉತ್ಪಾದಕರ ಕಂಪನಿ ಪ್ರಗತಿ ಕುರಿತು ನಡೆದ ಸಭೆಯಲ್ಲಿ ಕೇಂದ್ರ ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಸಚಿವ ಗಿರಿರಾಜ್ ಸಿಂಗ್ ಅವರೊಂದಿಗೆ ರೈತಮಿತ್ರ ಫಾರ್ಮರ್ಸ್ ಪ್ರೊಡ್ಯೂಸರ್ ಕಂಪನಿ ಅಧ್ಯಕ್ಷ ಕುರುಬೂರು ಶಾಂತಕುಮಾರ್ ಹಾಗೂ ಟಿ.ವಿ. ಗೋಪಿನಾಥ್ ಅವರು ಕಳೆದ ಐದು ವರ್ಷಗಳಲ್ಲಿ ರೈತರ ಕಂಪನಿ ಮಾಡಿರುವ ಸಾಧನೆಯ ಬಗ್ಗೆ ವಿವರಿಸಿದರು. ಕೇಂದ್ರ ಆಹಾರ ಸಂಶೋಧನಾಲಯದ ನೀಡಿರುವ ಚಿಯಾ ಬೆಳೆಯ ಬೆಳವಣಿಗೆ ಹೆಚ್ಚು ಜನಪ್ರಿಯವಾಗುತ್ತಿರುವ ಬಗ್ಗೆ ಮಾರುಕಟ್ಟೆ ಕಲ್ಪಿಸಲು, ಇದರಿಂದ ಉಪ ಉತ್ಪನ್ನಗಳ ಸಂಶೋಧನೆ ಹಾಗೂ ಮಾರುಕಟ್ಟೆ ಬಗ್ಗೆ ಕ್ರಮ ಕೈಗೊಳ್ಳುವಂತೆ ಕೋರಲಾಯಿತು. ಇದೇ ವೇಳೆ ಸಚಿವರಿಗೆ ರೈತಮಿತ್ರ ರೈತರ ಕಂಪನಿ ತಯಾರಿಸಿರುವ ಚಿಯಾ ಎಣ್ಣೆ, ಚಿಯಾ ಬೀಜದ ಆಕರ್ಷಣೀಯ ಪಾಕೀಟನ್ನು ನೀಡಲಾಯಿತು. ಸಿಎಫ್‌ಟಿಆರ್‌ಐ ನಿರ್ದೇಶಕಿ ಶ್ರೀದೇವಿ ಅನ್ನಪೂರ್ಣ, ಜಿಲ್ಲಾಧಿಕಾರಿ ಡಾ. ಬಗಾದಿ ಗೌತಮ್, ಜಿಪಂ ಸಿಇಒ ಯೋಗೀ ಶ್, ನ್ಯೂಟ್ರಿ ಪ್ಲಾನೆಟ್ ಮುಖ್ಯಸ್ಥ ರಂಗನಾಥ್ ಇದ್ದರು.

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Kannada Prabha

CSIR-CFTRI

26th September, 2021

Union Minister impressed with growth story of chia seeds

Farmers in the State cultivate more than 5,000 tonnes every year

SPECIAL CORRESPONDENT
MYSURU

The Raithamithra Farmers' Producer Company in Mysuru has impressed Union Minister for Rural Development Minister Giriraj Singh with the growth story of chia seeds, a high energy food of South American origin, whose cultivation in Karnataka has begun paying rich dividends to the farmers.

The company's chairman and farmers' leader Kurubur Shanthakumar along with the company's director T.V. Gopinath met the Union Minister on the CFTRI premises in Mysuru on Friday and briefed him about the growth of the company during the last five years and the role it played in popularising chia seeds among the farmers of the State.

"We started cultivating chia seeds with just 100 grams provided to us by the CFTRI in Mysuru during 2014-15. Now, farmers in different parts of the State cultivate more than 5,000 tonnes of chia seeds every year", Mr. Shanthakumar said.

Considered to be a superfood, chia seeds enjoy a huge demand in the domestic as well as the international market, he said. About 20,000 farmers across Karnataka grow chia seeds on roughly 20,000 acres of land.

Farmers' leader and Chairperson of Raithamitra Farmers' Producer Company Kurubur Shanthakumar at a meeting with Union Minister for Rural Development Giriraj Singh at CFTRI in Mysuru on Friday.

• SPECIAL ARRANGEMENT

Impressed with the growth story of chia seeds, Mr. Singh is believed to have told Mr. Shanthakumar that he will try to introduce the cultivation of chia seeds in his native State of Bihar.

Apart from the huge demand for chia seeds and its profitability for the farmers, Mr. Shanthakumar said the crop is not harmed by wild animals, which are a menace to the farmers in many parts of Bihar.

The Minister was presented with oil made out of chia seeds by the company on the occasion.

Also present at the meeting was Ranganath from Nutriplanet Foods, which produces high-energy foods from chia seeds from the technology developed by CFTRI.

Deputy Commissioner of Mysuru Bagadi Gautham, CFTRI Director Sridevi Singh and other scientists from the premier food technology laboratory were present on the occasion.

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CSIR-CFTRI

26th September, 2021

'CFTRI, CMTI can collaborate to develop future food manufacturing technologies'

Innovation must be an inclusive process, says CMTI director

SPECIAL CORRESPONDENT
MYSURU

Identifying drones, automated delivery vehicles, and 3D printing of edible goods as future food manufacturing technologies, Director of Central Manufacturing Technology Institute (CMTI), Bengaluru, Nagahanumaiah has offered to collaborate with the Central Food Technological Research Institute (CFTRI), Mysuru, to develop emerging technologies in food processing and manufacturing industry.

Delivering the 80th CSIR Foundation Day lecture virtually, on '4Ps: Challenges in inclusive innovation process', Dr. Nagahanumaiah said CMTI has the basic expertise in some of the emerging technologies and added that there was an opportunity for the two institutions to collaborate in developing them.

After identifying artificial intelligence and robotics (deployment of robotic butchers), automation, digital twins (virtual representation of physical) and block chain (a kind of digital ledger; Walmart is using the technology to track potential food contamination outbreaks) as transforming the food manufacturing sector, Dr. Nagahanumaiah said drones and automated delivery vehicles, 3D printing of edible goods, smart and precision agriculture, high-tech packaging and smarter waste disposal and recycling are the future. "We should connect all the stake holders, including consumers and investors. Innovation must be an inclusive process," he said and defined inclusive innovation as when new goods and services are developed for and/or by those, who have been excluded from the development mainstream.

Dr. Nagahanumaiah said CMTI had developed Drishti, for inclusive innovation process[https://drishti.cmti.res.in/]. The platform seeks to bring together "problem owners" like SMEs, enterprises and government agencies, "problem solvers" like technology innovators, start-ups, researchers etc., along with "technology and market enablers" and "supporting tools" to develop "innovative products".

He called upon food scientists and researchers to register on the portal and become either problem solvers or problem owners. Over 3,816 people had registered till September 20, 2021.

Earlier, CFTRI director Sridevi Singh said the laboratory will work towards enhancing the quality of research and double farmers' income, and empower women entrepreneurs and rural people.

Navin Rastogi from CFTRI said CSIR, since its inception, had acquired 14,000 patents and developed 1,400 technologies during the last 10 years.

CSIR-CFTRI celebrated the 80th CSIR Foundation Day on Saturday. ▪ FILE PHOTO

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The Hindu, New Indian Express

CSIR-IHBT

25th September, 2021

डा. संजय कुमार ने प्रतिभागियों को दिए प्रमाण पत्र

सीएसआईआर-आईएचबीटी में केसर व हींग की कृषि तकनीकों पर दक्षता विन्यास कार्यक्रम संपन्न

पालमपुर, 25 सितंबर (जसवंत कठियाल): सीएसआईआर-आईएचबीटी पालमपुर में केसर व हींग की उत्पादन तकनीक पर कृषि विभाग, प्रदेश के कृषि अधिकारियों हेतु पांच दिवसीय दक्षता विन्यास कार्यक्रम संपन्न हुआ। कार्यक्र म में हिमाचल के पंबा फांगा किन्नौर कुल्लू, लाहुल स्पीति और मंडी जिला के बारह कृषि अधिकारी (विषय वस्तु विशेषज्ञ, कृषि विकास अधिकारी और कृषि विस्तार अधिकारी ने प्रतिभागिता की संस्थान के निदेशक डा. संजय कुमार ने कहा कि हिमाचल प्रदेश सरकार ने राज्य में 'कृषि से संपन्नता योजना' के अंतर्गत केसर एवं हींग पर परियोजनाओं को वित्त पोषित किया है। यह संस्थान सरकार के कृषि विभाग के सहयोग से प्रदेश में इस परियोजना को लागू कर रहा है।

संयुक्त परियोजना के सफल क्रियान्यन हेतु कृषि अधिकारियों एवं किसानों की क्षमता निर्माण की आवश्यकता है। प्रदेश के गैर-पारंपरिक क्षेत्रों में केसर एवं हींग की सफल खेती हेतु समय-समय पर किसानों के प्रक्षेत्रों एवं सीएसआईआर-आईएचबीटी में प्रशिक्षण शिविर का आयोजन किया जा रहा है। उन्होंने हिमाचल प्रदेश को केसर एवं हींग का प्रमुख उत्पादक राज्य बनाने के अपने संकल्प को भी दोहराया। उन्होंने कृषि अधिकारियों को केसर एवं हींग की खेती की प्रत्येक क्षेत्र में संस्थान की टीम के सहयोग का आश्वासन भी दिया। डा. राकेश कुमार, वरिष्ठ प्रधान वैज्ञानिक ने देश की अर्थव्यवस्था के लिए मसाला फसलो, केसर और हींग के उत्पादन के महत्व के बारे में चर्चा की।

केसर व हींग की खेती बारे बताते हुए।

उन्होंने कहा कि भारत में केसर की वार्षिक मांग लगभग 100 टन है जबकि जम्मू-कश्मीर में केवल 6-7 टन का उत्पादन होता है। वर्तमान में केसर केवल जम्मू-कश्मीर के पंपोर और शिवा क्षेत्र में उगाया जा रहा है। उन्होंने प्रतिभागियों को संबोधित करते हुए विश्वास व्यक्त किया कि प्रतिभागी इन फसलों की सफल खेती के लिए आवश्यक तकनीकों से संबंधित ज्ञान प्राप्त करेंगे। उन्होंने अधिकारियों और किसानों के लाभ के लिए इस तरह के कार्यक्र म आयोजित करने के लिए सीएसआईआर-आईएचबीटी का आभार प्रकट किया।

अधिकारियों को केसर एवं हींग की ऊतक संवर्धन तकनीकों से भी रूबरू कराया गया एवं उसका व्यावहारिक अनुभव भी दिया गया। डा. संजय कुमार द्वारा प्रतिभागियों को प्रमाण पत्र दिए गए।

Published in:
Dainik Savera

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