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CSIR-INDIA

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The Innovation Engine of India

CSIR in Media

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

A ‘millety’ nutribar from CSIR-National Institute for Interdisciplinary Science and Technology

CSIR-NIIST

15th June, 2025

Millets, often dubbed superfoods, are quite trendy these days. So are nutribars. The National Institute for Interdisciplinary Science and Technology (NIIST), a Council of Scientific and Industrial Research (CSIR) lab in Thiruvananthapuram, has combined the two to develop a nutribar that packs a punch, nutritionally.

This millet-based nutrition bar delivers 228.66 kcal of energy per serving and is rich in natural protein content, according to CSIR-NIIST which has transferred the technology to a Thiruvalla-based private firm for commercial production. A wholesome functional food option, the nutribars are designed to appeal to health-conscious consumers who are on the look-out for healthy, nutrient-packed snacks, says NIIST director C. Anandharamakrishnan. What sets NIIST nutribar special apart, it being millet-based aside, is that unlike many nutribars on shop racks today, it does not contain synthetic additives, preservatives and refined sugars, said Tripti Mishra, scientist with the Agro Processing and Food Technology Division of NIIST.

Natural sweeteners

“For this particular product, we have used sorghum. But any millet can be used in it,” Dr. Mishra said. The clean-label product contains natural sweeteners and features, and apart from millets, it contains nutrient-rich traditional ingredients such as nuts and seeds, creating a bar that is rich in dietary fibre and micronutrients. NIIST formally transferred the nutribar technology to Sabari Agro Food Products, Thiruvalla, during a conclave on ‘Next-Generation Food Technologies: Processing for a Sustainable Tomorrow’ held as part of the institute’s golden jubilee celebrations on Friday.

Strong research

NIIST pursues a strong research programme in millets, given the potential these small-grained cereal crops hold for food security and nutrition. In 2023, as part of the International Year of Millets observance, NIIST had organised a Millet Festival which featured millet familiarisation programmes, millet and agro-food export conclaves and a recipe contest.

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Use sensors, AI to monitor vital infra in India

CSIR-NIIST

15th June, 2025

Leading structural engineering experts have called for the urgent adoption of sensors and Artificial Intelligence (AI) technologies to monitor and maintain critical infrastructure across India, including road and railway bridges, tunnels, and dams. They stressed that traditional methods like visual inspections are no longer enough to ensure the safety and longevity of these key assets.Speaking at a seminar on 'Capacity Augmentation & Service Life Enhancement of Bridges,' organised by the India chapter of the International Road Federation (IRF), Dr. N. Anandavalli, Director of CSIR-Structural Engineering Research Centre, Chennai, stressed that India must shift to smarter solutions for infrastructure monitoring. She highlighted how modern technologies such as advanced instrumentation, AI, and data analysis can help identify internal damages that are often missed during manual inspections …

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New study suggests fungi are more complex than experts thought

CSIR-NIO

15th June, 2025

Dr Belle Damodara Shenoy, principal scientist at the CSIR-National Institute of Oceanography Regional Centre, Visakhapatnam, has a new publication on rethinking the ‘new' in fungal species. The study stressed the importance of equitable global access to molecular technologies and infrastructural resources, particularly in biodiverse, yet under-resourced regions such as India.

This will help foster broad engagement in fungal systematics and ensuring more comprehensive biodiversity assessment and conservation efforts. According to Dr Shenoy, an illustrative example is the colletotrichum gloeosporioides species complex. Once regarded as a single, widely distributed pathogen, it has now been split into multiple genetically distinct species. The study shows how molecular tools revealed species such as C. asianum, C. fructicola and C. siamense, which were previously grouped under one name because of their …

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CSIR-National Physical Laboratory, New Delhi conducts Dr. K. S. Krishnan Memorial Lecture

CSIR-NPL

16th June, 2025

To commemorate the outstanding contributions of its Founder Director, Dr. K. S. Krishnan, the CSIR-National Physical Laboratory (CSIR-NPL), New Delhi, organises a series of Dr. K. S. Krishnan Memorial Lectures every year. CSIR-NPL is one of the premier national research laboratories under the Council of Scientific and Industrial Research (CSIR), Government of India. Since 1965, this lecture series has honoured Dr. K. S. Krishnan's pioneering contributions to science and technology by inviting eminent scientists of national and international repute to deliver lectures. Over the years, this prestigious platform has hosted numerous Nobel Laureates and distinguished scientific leaders.

This year, the Dr. K. S. Krishnan Memorial Lecture was held on 16th June 2025 and also marked the celebration of the International Year of Quantum Science and Technology 2025. Prof. Ganapathy Baskaran, Distinguished Professor at IIT Madras, Perimeter Institute for Theoretical Physics, Canada, and Matscience, Chennai, graced the occasion as the Chief Guest and delivered the memorial lecture.

Dr. Nita Dilawar, Director's representative, CSIR-NPL highlighted Dr. K. S. Krishnan's remarkable contributions to Indian science and technology. She emphasised the vital role of metrology in industrial growth, global trade, and societal development, and underscored the importance of quantum science and its impact on modern metrology. She also elaborated on the significant contributions of CSIR and CSIR-NPL towards the nation's scientific and technological advancement.

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How OEMs and Tech Firms Team Up to Speed Up EV Innovation

Electric vehicles are reshaping India's transport landscape. But making quality EVs at scale needs more than just factories—it demands strong EV innovation. OEMs (Original Equipment Manufacturers), tech firms, startups, research institutes, and governments are collaborating in new ways. These partnerships speed up EV innovation, helping India catch up globally. To understand how they accelerate EV innovation in R&D, batteries, software, infrastructure, and production, we will use real life examples in this article.

"EV Parks", or public-private EV Innovation Fuel

In June 2025, Uttar Pradesh launched a Rs. 700 crore "EV Park," through a PPP partnership, in Kanpur. This project, under the Kanpur Vision-2030, includes vehicle assembly lines, battery labs, and an R&D centre to boost EV innovation—especially in motors, chargers, and lithium-ion cell tech. As India builds these EV hubs, OEMs and tech partners gain shared labs and test centres, driving EV innovation faster and cheaper.

OEM-Tech, OEM-OEM Partnerships for Fundamental EV Innovation

Global tech companies are partnering with Indian OEMs to develop the fundamental EV technology …

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Neeri invites innovators to develop AI powered environmental solutions for Sustainovate 2025

CSIR-NEERI 18th June, 2025

The CSIR-National Environmental Engineering Research Institute (NEERI) is harnessing the power of artificial intelligence and innovation to address critical environmental challenges through its open innovation challenge, Sustainovate 2025. Aimed at fostering eco-entrepreneurship, the initiative seeks science-based, scalable solutions with a focus on AI-driven environmental applications, nature-based solutions, and sustainability-driven technologies. Open to diverse sectors, Sustainovate 2025 promotes interdisciplinary collaboration to drive sustainability. Dr S. Venkata Mohan, Director of CSIR-NEERI, emphasized the goal of the initiative: "Sustainovate 2025 is designed to catalyse science-led innovation, bridging research and societal application. We aim to empower young minds, startups, and grassroots innovators with mentorship and strategic support to address critical environmental challenges." The challenge is open to a wide range of participants, including UG/PG/PhD students (through faculty mentors), startups, SMEs, early-stage entrepreneurs, and NGOs/CSOs, who can submit novel proposals across ten innovation themes. The strong emphasis on AI and nature-based approaches reflects the need for cutting-edge, holistic solutions. Participants will benefit from a rigorous peer-review process, access to technical resources, and industry linkages. Top performers will be awarded a Certificate of Excellence, receive mentorship from Neeri, and gain opportunities to connect with investors and industry leaders. The initiative aims to help innovators turn their concepts into viable, scalable solutions with expert guidance. Dr Venkata Mohan added that the initiative has already received an encouraging response from across sectors and urged more participants to apply. The last date for submissions is June 30, and further details are available on the NEERI website.

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भूकंप से कम होगा नुकसान, ग्राउंड मोशन सिमुलेशन प्रक्रिया होगी कारगर, CSIR के वैज्ञानिक से EXCLUSIVE बातचीत - UTTARAKHAND EARTHQUAKE DANGER

देश के किसी न किसी हिस्से में आए दिन भूकंप के झटके महसूस होते हैं. लेकिन भूकंप के लिहाज से देश के हिमालयी राज्य काफी संवेदनशील माने जाते हैं. हिमालयी क्षेत्र में प्लेटों के घर्षण की वजह से एनर्जी एकत्र हो रही है. देश ही नहीं बल्कि विदेशों के भी वैज्ञानिक भूकंप के पूर्वानुमान को लेकर लगातार रिसर्च कर रहे हैं.

भूकंप से कम नुकसान हो, इस पर शोध: कुछ वैज्ञानिक भूकंप से होने वाले नुकसान को काम किए जाने पर अध्ययन कर रहे हैं. बेंगलुरु स्थित सीएसआईआर (Council of Scientific & Industrial Research) के वरिष्ठ वैज्ञानिकों ने अध्ययन में पाया कि ग्राउंड मोशन सिमुलेशन (भू-गति अनुकरण) के जरिए भूकंप से संभावित नुकसान को कम किया जा सकता है. इस विषय पर वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद, बेंगलुरु के वरिष्ठ वैज्ञानिक डॉ इम्तियाज ए परवेज ने ईटीवी भारत से एक्सक्लूसिव बातचीत की. पढ़िए उन्होंने क्या कहा. पूर्वानुमान को लेकर चल रही है रिसर्च: डॉ इम्तियाज ए परवेज ने कहा कि वर्तमान समय में भूकंप का पूर्वानुमान लगाना बहुत मुश्किल है, लेकिन भूकंप के पूर्वानुमान को लेकर शोध चल रहा है. भूकंप के पूर्वानुमान के लिए तीन चीजें सबसे महत्वपूर्ण होती हैं. इसमें कब, कहां और कितना बड़ा भूकंप आने की संभावना है? हालांकि, भूकंप कहां आने की संभावना है इसका अंदाजा लगाया जा सकता है, लेकिन भूकंप कब और कितना बड़ा आएगा, इसका अनुमान लगाना संभव नहीं है.

पूरी हिमालयन बेल्ट भूकंप के लिए संवेदनशील: उत्तराखंड समेत देश की पूरी हिमालयन बेल्ट भूकंप के लिहाज से संवेदनशील है. तमाम वैज्ञानिक इस बात का दावा कर चुके हैं कि कभी भी बड़ा भूकंप आ सकता है. उत्तराखंड रीजन के साथ ही सेंट्रल हिमालय और कश्मीर में बहुत अधिक स्ट्रेस जमा (Stress Accumulate) हो गया है. इस स्ट्रेस (दबाव) को रिलीज होना है. ऐसे में यह स्ट्रेस किसी बड़े भूकंप के रूप में रिलीज हो सकता है. डॉ इम्तियाज ने साथ ही कहा कि ये तो साफ है कि ...

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International Conference on Bitumen Emulsion (ICBE) 2025 Co-hosted by CSIR-CRRI, Nouryon, and PHD Chamber of Commerce and Industry

CSIR-CRRI

18th June , 2025

The Central Road Research Institute (CSIR-CRRI), in collaboration with Nouryon and the PHD Chamber of Commerce and Industry, is pleased to announce the International Conference on Bitumen Emulsion, scheduled for June 18, 2025, in Delhi, India. This esteemed event marks a significant milestone in the pursuit of sustainable infrastructure solutions, bringing together leaders from three distinguished organizations.

CSIR-CRRI, India's leading national laboratory dedicated to road research and development, plays a central role in advancing the nation's infrastructure capabilities. Nouryon, a global specialty chemicals leader, celebrates 80 years of impactful contributions to the asphalt industry. The PHD Chamber of Commerce and Industry, a key promoter of industry excellence, joins this collaboration to foster growth and innovation.

Jointly, these organizations are dedicated to pioneering innovations that meet the demands of modern infrastructure and contribute to a sustainable future. Bitumen emulsions, the focal point of this conference, offer versatile and environmentally friendly solutions for road construction and maintenance.

The conference serves as a vital platform for sharing knowledge, exploring cutting-edge technologies, and fostering collaborations that propel the industry forward. Attendees will have the opportunity to engage in discussions, exchange ideas, and network with experts and thought leaders from around the world.

CSIR-CRRI, Nouryon, and the PHD Chamber of Commerce and Industry invite all stakeholders to participate in this collaborative effort to build resilient, sustainable infrastructure that benefits communities today and for generations to come. The insights and collaborations from this conference are anticipated to significantly impact the industry's future.

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दुर्लभ और महत्वपूर्ण खनिजों की आपूर्ति के लिए सरकार ने बनाई नई रणनीति

नई दिल्ली में एक उच्च-स्तरीय बैठक का आयोजन किया गया, जिसका मुख्य उद्देश्य भारत को दुर्लभ पृथ्वी तत्वों (Rare Earth Elements - REE) और अन्य महत्वपूर्ण खनिजों के क्षेत्र में आत्मनिर्भर बनाना है। इस अहम बैठक में केंद्रीय कोयला और खान मंत्री जी. किशन रेड्डी, विज्ञान और प्रौद्योगिकी राज्य मंत्री (स्वतंत्र प्रभार) डॉ. जितेंद्र सिंह और कोयला एवं खान राज्य मंत्री सतीश चंद्र दुबे शामिल हुए।बैठक का एजेंडा इन रणनीतिक रूप से महत्वपूर्ण खनिजों की आपूर्ति श्रृंखला (सप्लाई चेन) को मजबूत करने और चीन जैसे देशों पर भारत की निर्भरता को कम करने पर केंद्रित था। ये खनिज आधुनिक तकनीक के लिए बेहद ज़रूरी हैं, जिनका इस्तेमाल रक्षा उपकरण, सेमीकंडक्टर, इलेक्ट्रिक वाहन, सौर पैनल, और पवन टरबाइन जैसे क्षेत्रों में होता है।केंद्रीय मंत्री जी. किशन रेड्डी ने इस लक्ष्य को हासिल करने के लिए "सरकार के संपूर्ण दृष्टिकोण" (Whole of Government Approach) पर जोर दिया। उन्होंने कहा कि खान, कोयला और विज्ञान एवं प्रौद्योगिकी मंत्रालयों के बीच सहयोग महत्वपूर्ण है ताकि देश में इन खनिजों की खोज, खनन और प्रसंस्करण में तेजी लाई जा सके।डॉ. जितेंद्र सिंह ने बताया कि वैज्ञानिक और औद्योगिक अनुसंधान परिषद (CSIR) के पास खनिज प्रसंस्करण और धातु विज्ञान में दशकों की विशेषज्ञता है, जो भारत को इस क्षेत्र में आत्मनिर्भर बनाने में महत्वपूर्ण भूमिका निभा सकती है। उन्होंने कहा कि CSIR की प्रयोगशालाएं जटिल प्रक्रियाओं को संभाल सकती हैं और देश को एक मजबूत घरेलू आपूर्ति श्रृंखला बनाने में मदद कर सकती हैं।इस बैठक में महत्वपूर्ण खनिजों के ब्लॉकों की नीलामी में तेजी लाने, विदेशों में खनिज संपत्तियों के अधिग्रहण के लिए काबिल (KABIL - Khanij Bidesh India Ltd) की भूमिका बढ़ाने और घरेलू अन्वेषण को प्रोत्साहित करने जैसे मुद्दों पर विस्तार से चर्चा की गई।सरकार का यह कदम भारत की राष्ट्रीय सुरक्षा और आर्थिक विकास के लिए एक मजबूत और लचीली खनिज आपूर्ति श्रृंखला बनाने की दिशा में एक बड़ा प्रयास है, जिससे भविष्य की प्रौद्योगिकियों के लिए भारत की ज़रूरतें पूरी हो सकेंगी।

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India Embraces 'One Nation, One Time': Synchronizing with Indian Standard Time

CSIR-NPL

18th June , 2025

The Indian government is set to enforce Indian Standard Time across all legal, commercial, digital, and administrative sectors. This move, announced by Food and Consumer Affairs Minister Pralhad Joshi, aims to enhance security in digital transactions and ensure synchronized timekeeping in various industries.

The Department of Consumer Affairs has developed the Legal Metrology (Indian Standard Time) Rules, 2025, to institutionalize IST as India's official time. This comes in collaboration with CSIR-NPL and ISRO, introducing five Regional Reference Standard Laboratories across the country with state-of-the-art atomic clocks and secure synchronization systems.

At a recent round table, stakeholders from diverse sectors showed support for this initiative, highlighting its role in eliminating dependence on foreign time sources and enhancing national security and efficiency.

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Research consumables supply center inaugurated at AIC-CCMB in Hyderabad; it cuts waiting time to get chemical agents

CSIR-CCMB 18th June , 2025

A special 'supply center' providing accessibility to essential research consumables for the life science research community in and around the (AIC-CCMB) Atal Incubation Centre-Centre for Cellular and Molecular Biology campus at Uppal in Hyderabad was inaugurated on Wednesday (June 18, 2025).

CSIR-CCMB Director Vinay Kumar Nandicoori dedicated the centre set up by 'Thermo Fisher Scientific' to the researchers in the area including those working at Centre for DNA Fingerprinting & Diagnostics (CDFD), National Institute of Nutrition (NIN) and others, in the presence of AIC-CCMB CEO N. Madhusudana Rao.

Steady supply of chemical agents

Dr. Kumar said the supply centre promises to reduce the usual time lags in getting the necessary chemical agents like enzymes for research purposes, as steady supply will now be available. "It will be good for the entire eco-system as procurements otherwise could be cumbersome," he said.Thermo Fisher's director Jayabharath Reddy said they are committed to support scientific innovation and the new supply center will enable start ups and researchers at CCMB and surrounding institutions to gain access to critical research consumables. "Specialised consumables have always been a challenge for researchers, sometimes losing months in the process of ordering to delivering. Our centre will be putting essential materials right on campus, enabling faster scientific breakthroughs," he said

The new centre is located adjacent to the company's Centre for Innovation (CFI) established at the AIC-CCMB. The CFI was set up for fostering collaborations and advancing scientific breakthroughs in life sciences. Earlier, AIC-CCMB and Thermo Fisher are also holding a three-day workshop on 'Cell Health Analysis' to enhance technical skills of the researchers in cell based assays used in biomedical research and drug discovery."Cell analysis is crucial in developing therapies for cancer and other diseases. This workshop gives researchers hands-on exposure to advanced tools," said Dr. Rao.

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Ground Motion Simulation Can Help Minimise Damage From Earthquakes, Says Scientist

CSIR-4PI

18th June , 2025

Predicting earthquakes in the seismically sensitive zones is one of the biggest challenges for the scientist community. The Himalayan belt in particular has been witnessing regular seismic activity and has been the theatre of some of the most devastating earthquakes in the recent past whether in Kashmir, Nepal or Uttarakhand.

But latest research by scientists at Council of Scientific and Industrial Research (CSIR) at Bengaluru shows that the damage caused by the earthquakes can be minimized through Ground Motion. A senior scientist from the Institute Dr Imtiaz A Pervez in an exclusive chat with ETV Bharat said that a lot of research is being done on prediction of earthquakes at present. He was a participant in a workshop on 'Understanding Himalayan Earthquakes' held at Wadia Institute of Himalayan Geology. Experts from around the country participated in the event.He said that there are three important factors in predicting earthquakes. While it can be assumed where an earthquake can occur, it is impossible to say anything about its intensity and timing.

The expert underlined that the entire Himalayan belt is seismically sensitive and the scientists have been saying that there can be a big earthquake anytime in this area that includes Uttarakhand. He pointed out that there has been a lot of stress accumulation in the Central Himalayas and Kashmir and this stress has to be released. It can get released in the form of a massive earthquake.Dr Imtiaz said that the seismologists know that an earthquake can occur an time but its intensity, pattern of seismic waves and ground motion can be estimated through simulation …

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लखनऊ में सीएसआईआर-एनबीआरआई की तरफ से एग्जीबीशन का किया गया शुभारंभ

पर्यावरण संरक्षण, वृक्षों की उपयोगिता और प्रकृति से मानव के संबंधों को रेखांकित करने के लिए सीएसआईआर-एनबीआरआई द्वारा भातखंडे संस्कृति विश्वविद्यालय में दो दिवसीय प्रदर्शनी एवं परिचर्चा का आयोजन किया गया, जिसका शुभारंभ गुरुवार को कुलपति प्रो। मांडवी सिंह द्वारा किया गया। इस प्रदर्शनी के उद्देश्य को लेकर प्रो। मांडवी सिंह ने कहा कि भातखंडे विश्वविद्यालय, जो भारतीय संस्कृति, संगीत एवं कलाओं के संवर्धन हेतु समर्पित है, वह प्रकृति एवं जीवन के अन्य अंगों के साथ संतुलन स्थापित करने के लिए भी दृढ़संकल्पित है।

अर्बन हीट के लिए प्लांटेशन

अर्बन एरियाज जहां पर कंक्रीट की बिल्डिंग्स हैं , वहां पर घर पास-पास होते हैं , जिसकी वजह से एयर कम पास होती है और हीट लॉक हो जाती है, जो कि अर्बन हीट को बढ़ा देती है और टेम्परेचर इंक्रीज हो जाता है लेकिन एनबीआरआई द्वारा निर्मित ये मॉडल बताता है कि हम इस हीट को कम कैसे करते हैं इसके लिए वर्टिकल ग्रीनरी, रूफटॉप गार्डन बेस्ट आइडियाज हैं , ट्री लैंड स्ट्रीट बना सकते हैं।

अब पराली नहीं है समस्या

हम अक्सर सुनते हैं कि पराली ने हवा की क्वालिटी खराब कर दी है, इसके लिए सीएसआईआर-एनबीआरआई ने मिलकर एक तरीका ढूंढा है। संस्थान ने माइक्रोऑर्गेनिज्म का यूज करके एक फॉर्मूला तैयार किया है, जो पराली को खेत में ही गला कर उसे मिट्टीमें मिलाकर खत्म कर देगा। ये फॉर्मूला कुछ बैक्टीरिया और फंगस को मिलाकर तैयार किया गया है, जिसको 1 हेक्टेयर में 20 लीटर पानी में मिक्स करके स्प्रे किया जाएगा, इससे 10 दिन के अंदर पराली खेत में ही गल जाएगी और इससे मिट्टी को भी पोषण मिलेगा।

इनडोर पॉल्यूशन होगा कम

इनडोर प्लांट्स के लिए एनबीआरआई के स्टूडेंट्स ने एक मॉडल तैयार किया है, जिसमें कुछ प्लांट्स इंट्रोड्यूस किए गए हैं जिससे घर के अंदर की हवा को साफ करें। इन पौधों में स्नेक प्लांट, मनीप्लांट, एरीका पाम शामिल हैं। ये एसी और किचन से निकलने वाली गैसों को कंट्रोल करेंगे। इसके साथ ही इसमें एक ग्रीन वॉल भी शामिल है, जो इन गैसेज को ऑब्जर्व करेगी।

Read More: Inextlive

Mumbai Reveals Why Potholes Return Every Monsoon

CSIR-CRRI

19th June , 2025

Mumbai's commuters and motorists are all too familiar with the annual return of potholes as soon as the rains arrive. With surface asphalt that seems new just weeks ago already riddled with craters, the city's roads are once again drawing sharp public scrutiny. Experts from institutions such as the Central Road Research Institute (CSIR) and the Indian Road Congress point to a pattern of systemic failures — from weak drainage to poor materials — that repeat each year.

According to Professor Manoranjan Parida, director at CSIR's Central Road Research Institute, the primary catalyst for pothole formation is water infiltration. Rainwater penetrates through even minor cracks, destabilising the pavement's structural layers. "Traffic loading, ageing bitumen, substandard construction, and existing fissures …

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Road Infra generated 650 Cr mandays of employment

CSIR-CRRI

19th June , 2025

In India's Vision 2047 for a developed India and the net zero target for 2070, bitumen emulsion will play an important role. It is an emerging field and can be effectively used in cold and rainy weather, It is also viable for quick fixes, said Harsh Malhotra, Minister of State Corporate Affairs and Minister of State Road Transport and Highways (MORTH), Govt. of India at International Conference on Bitumen Emulsion 2025 (ICBE 2025) organised by PHD Chamber of Commerce and Industry, in collaboration with the Central Road Research Institute (CSIR-CRRI) and Nouryon at Le Méridien, New Delhi

He further informed that the road infrastructure contributes 3.2% to the country's GDP, It has generated 650cr mandays of employment and has had a direct and indirect impact. Out of the total bitumen used in India, 40% is imported, this is both a challenge and an opportunity. Another major challenge is to improve cost-effectiveness …

Read More: Bizzbuzz

Workshop on food and beverages at CSIR-CFTRI on June 27

CSIR-CFTRI

19th June , 2025

BioNEST, CSIR-Central Food Technological Research Institute, in collaboration with Atal Incubation Center – Central Coffee Research Institute-Center for Entrepreneurship Development (AIC-CCRI-CED), will be organising an event on 'Networking Workshop on Food and Beverages' on June 27.

The event is aimed at fostering strong linkages and collaborative opportunities for the food startup ecosystem.It will bring together stakeholders, including emerging food startups, investors, mentors, and ecosystem enablers, creating a vibrant platform for dialogue, collaboration, and market exposure, a press release said.

Key highlights of the event include technologies of CFTRI, startup product display, guided facility tour of CFTRI and sessions by experts. A registration fee of ₹500 a participant will be charged, the release said.

"The initiative underscores the commitment of both AIC-CCRI-CED and CSIR CFTRI to nurturing innovation and entrepreneurship in the food and beverage domain, and to empowering startups with the right exposure, technical support, and industry connections," the release added.

For further details, participants can contact 0821-2412608 or email managerbionest@cftri.res.in during weekdays between 9 a.m. and 5.30 a.m.

Read More: Thehindu

CSIR experts to visit Mizoram to conduct soil study for road construction: Parida

CSIR-CRRI

20th June , 2025

Indian Road Congress (IRC) president Prof Manoranjan Parida said a team of experts from the Council of Scientific and Industrial Research (CSIR)'s Central Road Research Institute (CRRI) will visit Mizoram to conduct an on-the-spot study of the soil conditions in the state for road construction, reports HC Vanlalruata.

Replying to questions from the media at a press conference held in Aizawl on Thursday evening regarding why roads in Mizoram do not last long as those in other parts of the country, Parida said a thorough study is required to find lasting solutions. He said the IRC is an organisation in which highway engineers and professionals in different fields of engineering are members and the IRC drafts Indian standards, code and manual necessary for the state-of-the-art engineering in road, bridge and building constructions.

Read More: Thetimesofindia

NML Jamshedpur celebrates yoga day with wellness program

CSIR-NML

21st June , 2025

CSIR-National Metallurgical Laboratory (NML), Jamshedpur, celebrated the International Day of Yoga 2025 with a two-day program themed “Yoga for One Earth, One Health.” The celebration, held with the instructor support of the Art of Living Foundation, Jamshedpur Chapter, commenced on 20th June at 4:00 PM in the Institute Auditorium with a special session on stress management and yoga for cmplex work environments.

The session was graced by Acting Director Dr. Shivaprasad, Chairperson IDY Celebration Committee, Dr. Raghuvir Singh, and Controller of Administration J.S. Sharan.

Eminent Art of Living instructors, Rita Mukherjee and Mokshita Gautam, conducted an engaging session featuring practical techniques in yoga, meditation and mindfulness.

On 21st June 2025, early morning community yoga sessions were organized at the Golmuri and Agrico Residential Campuses, witnessing enthusiastic participation from employees, research scholars, project staff, and their families.

The event was successfully convened by Biswajit Bhowmik, with seamless coordination from Ravi Ranjan Kumar, Vishek Mishra, Paramarth Suman, Abhishek Kumar Singh, and others—reaffirming NML’s commitment to holistic well-being and collective harmony.

Read More: Avenuemail

11th International Yoga Day celebrated at CSIR-IIIM Leh with theme "Yoga for One Earth, One Health"

CSIR-NML

21st June , 2025

The 11th International Yoga Day, themed "Yoga for One Earth, One Health", was observed with great enthusiasm on 21st June 2025 at the CSIR-IIIM Jammu, MoS&T, Experimental R&D Station, Palam, Chuchot Yokma, Leh, in collaboration with APEDA (Ministry of Commerce & Industry, Government of India) and the Agriculture Department, Palam Farm.

The event commenced with a welcome address by Dr. Tsewang Rigzen BDM (APEDA, Regional Office Leh), who highlighted the significance of yoga in daily life and emphasized its role in improving health and managing stress.

Under the guidance of instructor Ms. Rinchen Dolma, participants performed various yoga asanas with dedication and discipline. Mr. Zabir Ahmad, TA (CSIR-IIIM, Palam Farm, Leh), encouraged the adoption of yoga among youth and farming communities for better health, especially considering Ladakh's challenging climatic conditions.

As a token of appreciation, T-shirts and caps were distributed to participants. The event concluded with a formal vote of thanks, followed by refreshments for all. More than just a commemoration, the celebration exemplified the spirit of "Yoga for One Earth, One Health", serving as a vibrant convergence of scientific endeavor, agricultural outreach, and community engagement.

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Wealth from waste: how crop residue can provide nutritious cattle fodder, make farming eco-friendly

CSIR-IICT

21st June , 2025

Scientists at CSIR-Indian Institute of Chemical Technology (IICT) here seems to have found a solution to the country's mounting problem of dealing with agriculture residue such as paddy straw and rice and wheat husk. Over the past few years, scientists at the premier institute have been working on converting rice straw and other crop residue into nutrient rich fodder for the livestock and also other value-added products such as Compressed Bio-Gas (CBG) and Fermented Organic Manure (FOM).

Usually farmers resort to burning the crop residues, leading to environment pollution. Though it is already being used as cattle fodder, it is not as nutritious as other foods. Scientists have now shown that crop residue like rice straw when treated with a relatively simple chemical process could effectively help bridge the gap in the country's fodder needs, besides protecting the environment …

Read More: Thehindu

CSMCRI, Bhavnagar signs MoU with Pangasinan State University Philippines

CSIR-CSMCRI

23rd June, 2025

The CSIR-Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar, India, recently signed a Memorandum of Understanding (MoU) with Pangasinan State University (PSU), Philippines. The partnership aims to jointly develop and promote advanced technologies in salt production.

The MoU was signed in the presence of distinguished delegates from the Philippines, including representatives from the Department of Science and Technology (DOST), and Mariano Marcos State University. . Dr. Kannan Srinivasan, the director of CSMCRI informed that 'This collaboration will focus on mutual research and development initiatives, especially in the areas of modern salt production, membrane technology, and marine biotechnology'.

Pangasinan State University is spearheading the establishment of the Accelerating Salt Research and Innovation (ASIN) Center, a agship program in the Philippines designed to revolutionize the country's salt sector. Leveraging CSIR-CSMCRI's decades-long expertise, the ASIN Center aims to bring cutting-edge innovations and sustainability to traditional salt farming methods.

As part of this growing bilateral partnership, a Bilateral India–Philippines International Seminar on Advanced Salt, Water, and Marine Technologies was also organized on June 10, 2025. The seminar will bring together experts, policymakers, and researchers from both nations to exchange knowledge and explore new frontiers in marine and water-based technologies.

Read More: Indianchemicalnews

IIIM organizes first half yearly TOLIC meeting

CSIR-IIIM

23rd June, 2025

The first half-yearly meeting of the Town Official Language Implementation Committee (TOLIC) for the financial year 2025-26 was held here today.

Dr Zabeer Ahmed, director, CSIR-IIIM and Chairman, TOLIC, chaired the meeting, which was attended by representatives from various Central Government Offices and members of TOLIC.

The main objective of the meeting was to review the Hindi related work of the last two quarters of the member institutions and to collect their other important information for uploading it on the official TOLIC portal. Speaking on the occasion, Dr Zabeer Ahmed announced that workshops, kavisammelans and other events would be organized in future to promote Hindi. He also highlighted the remarkable progress made in the promotion of Hindi on digital platforms like Youtube, Twitter, Facebook and Whatsapp and said that Hindi speakers have now become the fourth largest linguistic community in the world, a result of collective efforts.

Dr Zabeer further mentioned that with the government support the Hindi language has not only made stride in the digital world but also adoption in business like Amazon, Flipkarts and others e-commerce portals, deeply embedded in the cultural significance and bridging the linguistic diversity. This was also decided to form a sub-committee and hold a competition for the design of the logo, in which the best logo selected, will be formally awarded.

A total of 17 member offices were awarded certificates and mementos on the basis of commendable performance in the previous six months. Earlier, Sanjay Sharma, member-secretary, TOLIC commenced the meeting with a review of various Central Government offices located in Jammu region.

Read More: Dailyexcelsior

CSIR-IMMT celebrates International Yoga Day with gusto

CSIR-IMMT

23rd June, 2025

Yoga is the essence of physical, mental and overall well-being. Recently, the CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT, Bhubaneswar) celebrated the International Yoga Day at its campus with the support from the Bharatiya Yoga Santhan, Chandrasekharpur Yoga Zilla, Bhubaneswar.

"Yoga for one earth and one health" was the theme this year. The event was inaugurated by Dr. Nabin Kumar Dhal, Chief Scientist and was graced by Rajkishore Acharya, District president, Bharatiya Yoga Santhan, Chandrasekharpur Yoga Zilla as the Chief Guest. The chief dignitaries motivated the audience about the importance of Yoga in everyday life and how it should be incorporated to improve the quality of one's life.

The Yoga Guru Rajkishore Acharya stressed upon the importance of Yoga in the life of everyone. He inspired the staff, students and children of IMMT to keep Yoga in their daily lives and lead stress-free lives through Yogic lifestyle and enhance their physical and mental well-being with the practice of Yogic Philosophy.

The Yog Shadhaka's and Shadhika's of Bharatiya Yoga Sansthan conducted the Yoga, Pranayam and Dhyan in a very effective way along with conveying the health benefits of each part. All the participants proactively performed Yoga, Pranayam and Dhayn as instructed.

The event was coordinated by Abhaya Kumar Sahoo, Ashok Kumar Behera and Mahendra Kumar Sahoo of CSIR-IMMT. They were supported by Tapas Kumar Sahoo and Anil Kumar Rath and other regular members of IMMT Yoga Kendra.

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CSIR-NAL Transfers NALSUN-NG Environment-Friendly Solar Absorber Coating Technology to M/s. Helix Solar Pvt. Ltd., Mysuru

CSIR-NAL

23rd June, 2025

CSIR–National Aerospace Laboratories (CSIR-NAL) today announced the successful technology transfer of its next-generation solar absorber coating, NALSUN-NG™, to M/s. Helix Solar Private Limited, an emerging clean-tech start up based in Mysuru, Karnataka. The formal agreement was signed on June 23, 2025.

This latest transfer marks a significant push towards self-reliance in solar thermal technologies, supporting national missions such as Make in India, Atmanirbhar Bharat, and the National Solar Mission. The technology enables domestic manufacturing of flat plate solar water heaters, potentially reducing monthly imports of 5–6 lakh evacuated tube collectors.

NALSUN-NG™ is a breakthrough graphene oxide-based solar selective coating, specifically engineered for photothermal applications such as solar water heaters …

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Last 11 years have turned technology into the engine of India's growth story," said Dr. Jitendra Singh

CSIR

23rd June, 2025

Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science & Technology, Earth Sciences, and MoS in the Prime Minister Office, Dept. of Space and Atomic Energy today declared that the last 11 years had turned technology into engine of India growth story and thus a significant contributor to the national economy, owing to the transformative science-led

Addressing a joint press conference of all Science Ministries, including the Ministry of Earth Sciences, held at the National Media Centre, Dr. Jitendra Singh said, "In the changed scenario over the last one decade, India is not just participating but is shaping global scientific discourse. We are setting benchmarks for others to follow." …

Read More: PIB

Made-In-India Sickle Cell Anaemia Test Kit To Be Available From 2026, Know The Price

CSIR 23rd June, 2025

India will launch a low-cost, Made-in-India sickle cell anemia test kit in 2026. Priced under ₹100, the kit gives results in 10 minutes using just a drop of blood, part of a national drive to combat the genetic disease

There is good news for people who are potentially suffering from sickle cell anaemia or who come in contact with it.

The sickle cell anaemia test kit developed under Make in India will be available in the market next year in 2026. This information was given by CSIR DG and Department of Science and Industrial Research (DSIR) Secretary Dr. N. Kalaiselvi in an exclusive conversation with the ITV network on Monday.

He said that this kit has met all the standards, and a single drop of blood will tell whether the person getting tested has sickle cell anaemia or not.

Read More: Newsx

Manufacturing units planned in northeast States for vegan leather developed by CSIR-NIIST

CSIR-NIIST

23rd June, 2025

Manufacturing units will be established in the northeast States for the plant-based vegan leather developed by the CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) in Thiruvananthapuram.

CSIR-NIIST on Monday signed a memorandum of understanding (MoU) with the North East Centre Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, Government of India, in this regard. NIIST described the MoU as a significant step towards promoting sustainable technologies and a circular economy …

Read More: Thehindu

NAL transfers environment-friendly solar absorber coating technology to Mysuru startup

CSIR-NAL 24th June, 2025

National Aerospace Laboratories (CSIR-NAL) announced the successful technology transfer of its next-generation solar absorber coating, NALSUN-NG, to Helix Solar Private Limited, an emerging clean-tech startup based in Mysuru. On June 23, NAL said the technology enables domestic manufacturing of flat plate solar water heaters, potentially reducing monthly imports of five to six lakh evacuated tube collectors.

NALSUN-NG is a breakthrough graphene oxide-based solar selective coating, specifically engineered for photothermal applications, such as solar water heaters. Developed entirely in-house by NAL, it is the first eco-friendly, water-based coating of its kind in India. Unlike traditional coatings that rely on volatile organic compounds (VOCs) and flammable solvents, NALSUN-NG uses only non-toxic, RoHS- and REACH-compliant inorganic materials.

Most current commercial coatings use capital-intensive physical vapor deposition (PVD) techniques, or contain harmful VOCs. In contrast, NALSUN-NG requires minimal investment in infrastructure, has no flammable components, and poses no effluent treatment challenges making it ideal for local manufacturing and rural deployment.

The coating has undergone rigorous testing aligned with ASTM and International Energy Agency (IEA) standards. It is certified by NABL-accredited laboratories, and its intellectual property is protected under Indian and international patents. With a lifespan exceeding 20 years, NALSUN-NG is trademarked and has already been successfully commercialised.

This transfer marks the second successful licensing of the NALSUN-NG technology, following its earlier adoption by an industry partner where it has already been commercialised and integrated into solar thermal systems.

Read More: Thehindu

Tarapore School students explore science and sustainability at CSIR-NML Jamshedpur

CSIR-NAL

24th June, 2025

Students from Tarapore School recently participated in an immersive educational tour of the CSIR–National Metallurgical Laboratory (NML), Jamshedpur, as part of the Jigyasa Programme. The initiative, designed to bridge the gap between classroom learning and real-world science, offered students hands-on exposure to metallurgical processes and sustainability practices.

Dr. Sarmistha Patil Sagar welcomed the students and introduced them to CSIR-NML's contributions to industry and society. Dr. Animesh Jana elaborated on the Jigyasa Programme's mission to inspire young minds through scientific engagement. "Connecting students directly with scientific labs ignites curiosity and encourages innovation," he said.

The visit included two informative lab tours. In the first, students observed tensile and creep testing and learned how chemical analysis ensures the purity of metals. The second session focused on e-waste recycling and featured a live brass melting demonstration, captivating students as solid metal transformed into molten form.Throughout the visit, students interacted with scientists, asked insightful questions and witnessed the intersection of innovation and environmental responsibility. The experience strengthened their understanding of sustainability and materials science.Tarapore School expressed deep appreciation to the CSIR-NML team, especially Dr. Sandip Ghosh Choudhary, Dr. Sarmistha Patil Sagar and Dr. Animesh Jana, for their mentorship and inspiration.

Read More: Avenuemail

Empowering Tribal Farmers: Himachal's Green Push with Medicinal and Aromatic Plants

CSIR-IHBT

25th June, 2025

In a meaningful step toward sustainable farming and tribal empowerment, the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, recently conducted a series of hands-on training and awareness programs across Himachal Pradesh's tribal regions. Held from June 16 to 20 under the CSIR Aroma Mission Phase III, the initiative focused on cultivating medicinal and aromatic plants (MAPs) to boost rural livelihoods and promote eco-friendly agriculture. The journey began in Samra village, Bharmour (Chamba district), where 40 farmers—25 men and 15 women—received practical training on MAP cultivation, post-harvest techniques, and market connections. Seeds and planting materials were distributed to help them get started immediately.The next stop was Suppa village on June 17, where farmers learned to grow aromatic marigold (Tagetes minuta) and other regionally suited crops. The session emphasized field-level techniques and value addition to improve both yield and income.On June 19, the program reached Kullu district, engaging tribal farmers from Lahaul & Spiti. Experts shared insights tailored to cold desert farming conditions and provided region-specific seeds and technical support.Finally, on June 20, Sungra village in Kinnaur hosted a session focused on the entrepreneurial potential of MAPs. Thirty farmers participated, gaining knowledge on sustainable cultivation and how to tap into value chains for long-term economic resilience. Led by Dr. Sudesh Kumar Yadav and Dr. Rakesh Kumar, the initiative reflects CSIR-IHBT's commitment to transforming tribal agriculture through science, innovation, and community engagement. By equipping farmers with the tools and knowledge they need, the mission is helping build a greener, more prosperous future in Himachal's remote regions.

Read more: [Himachalheadlines]

Science Teachers of Greater Chennai Corporation Schools participated in the Jigyasa Workshop at CSIR-SERC

CSIR-SERC, CMC

25th June, 2025

CSIR-Structural Engineering Research Centre, Chennai a constituent laboratory of CSIR, and CSIR Chennai Campus (CMC) are jointly organizing a three-day workshop exclusively for science teachers of Greater Chennai Corporation Schools under the JIGYASA initiative from 25th to 27th June 2025.

During the inaugural event, Dr. S. Maheswaran, Senior Principal Scientist, and JIGYASA Nodal Co-ordinator briefed the participants about JIGYASA initiative of CSIR and the workshop. Dr. J. Rajasankar, Chief Scientist and Head, Skill and Human Resource Division, delivered the welcome address. Dr. N. Anandavalli, Director of CSIR-SERC & Coordinating Director of CMC delivered the presidential address. In her presidential address, she briefed on the activities of CSIR-SERC. Further she spoke on the engineering designs inspired by nature, bio-inspired inventions, and the evolution of building structures and the importance of STEM for the future generation. Dr. S.Sundar Kumar, Principal Scientist, proposed vote of thanks by formal inauguration function, Technical Sessions were conducted on current advanced topics in Science and Technology. The topics include Internet of Things, Nanotechnology and Structural Health monitoring. During the next two days, topics such as Artificial Intelligence, Disaster Mitigation, New Materials etc. will also be covered. The participating teachers would also be visiting various laboratories of CSIR-SERC and CSIR Madras Complex for live demonstrations.

Read more: PIB

प्रकृति के अनुसार भोजन का चयन जरूरी: डॉ तोमर

CSIR-CIMFR 26th June, 2025

सीएसआईआर-केंद्रीय खनन व ईंधन अनुसंधान सस्थान में बुधवार को वर्तमान स्वास्थ्य देखभाल चुनौतियां और स्वस्थ जीवनशैली विषय पर मानव संसाधन विकास विभाग ने व्याख्यान का आयोजन किया। सिंफर निदेशक प्रो अरविंद्र कुमार मिश्रा ने अध्यक्षता की। मौके पर विज्ञान भारती के राष्ट्रीय कार्यकारिणी के सदस्य प्रो डॉ जीएस तोमर ने व्याख्यान दिया। भगवान धन्वंतरि की प्रतिमा पर पुष्प अर्पित कर कार्यक्रम की शुरुआत की गई। प्रो तोमर ने प्रकृति, देश, काल और ऋतु के अनुसार ही भोजन के चयन पर जोर दिया। डॉ जीएस तोमर ने कहा कि आरोग्य भारती स्वास्थ्य संरक्षण व संवर्धन के क्षेत्र में कार्य कर रहा एक देशव्यापी संगठन है।

कश्मीर से कन्याकुमारी तक लगभग सभी जिलों में कार्यकर्ता सक्रिय हैं। 2002 में कोची से प्रारंभ हुआ यह संगठन राष्ट्रीय संगठन सचिव डॉ अशोक कुमार वार्ष्णेय के कुशल नेतृत्व में देशभर में स्वास्थ्य संरक्षण के क्षेत्र में नए-नए आयाम स्थापित कर रहा है। उन्होंने बताया कि विश्व स्वास्थ्य संगठन का ध्यान वर्तमान में संक्रामक रोगों से हटकर नॉन कम्युनिकेबल रोगों की तरफ आकृष्ट हो रहा है। इन रोगों को जीवनशैली जन्य रोग भी कहते हैं। चिकित्सा वैज्ञानिकों के अनुसार 75 प्रतिशत से अधिक जीवनशैली जन्य रोगों को जीवनशैली को सुधार कर रोका जा सकता है। डायबिटीज, हाइपरटेंशन, अर्थराइटिस, अस्थमा, कैंसर, आईबीएस, महिलाओं में पीसीओएस आदि बीमारियों की निरंतर बढ़ती संख्या विकृत जीवनशैली का ही परिणाम है। भोजन का चयन हमेशा प्रकृति, देश, काल और ऋतु के अनुसार करना चाहिए। ज्वार, बाजरा, सांवा, कोदो, कुटकी, चैना, कुट्टू रामदाना जैसे मिलेट्स देखते ही देखते थाली से दूर हो रहे हैं। सिंफर निदेशक के मार्गदर्शन में मानव संसाधन विकास विभाग ने व्याख्यान का आयोजन किया। इसमें एचआरडी प्रमुख दिलीप कुंभकार के साथ डॉ जेके सिंह व जी सुरेश ने भूमिका निभाई। मौके पर मुख्य वैज्ञानिक अमरनाथ, दिलीप कुम्भकर, डॉ पीके मंडल, राम लोलारक, डॉ अरुण सिंह समेत 50 से अधिक वैज्ञानिक, तकनीकी अधिकारी, कर्मचारी मौजूद थे।

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CSIR-IITR leads India's national PFAS monitoring push

CSIR-IITR

26th June, 2025

In response, regulatory action on PFAS has gained momentum in recent years. The European Union and the United States have already enacted varying degrees of regulation. However, in India, the framework around PFAS is still in its infancy. With no official enforceable limits yet in place, addressing PFAS contamination across such a vast and diverse country poses significant challenges.

Understanding the PFAS problem in India

One institution working to address this is the CSIR-Indian Institute of Toxicology Research. The institute is leading India's push to develop robust PFAS detection. Capabilities and working closely with regulatory bodies to shape future policies. According to Dr. Bhaskar Narayan, Director of CSIR-IITR, the main challenge surrounding PFAS in India is not a lack of toxicological understanding, but rather a lack of data. "To set enforceable limits, regulatory bodies like the Food Safety and Standards Authority of India (FSSAI) require comprehensive evidence – data from market samples, farm produce, food processing lines, even environmental sources like water run-off …

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Next-generation metal-air batteries show promise

CSIR-CMERI

26th June, 2025

Chemists have synthesised a quasi-solid-state zinc-air battery by incorporating a novel electrocatalyst, 1 which significantly enhances the battery's power-generating efficiency. The researchers say it will help create a next-generation zinc-air battery that could power everything from smartphones to flexible wearables. Conventional metal catalysts are effective, but most are expensive and unstable, so scientists at the CSIR-Central Mechanical Engineering Research Institute in Durgapur, West Bengal, made nanohybrids of manganese oxide and cobalt nanoparticles. These were implanted in nitrogen-doped graphitic carbon which was incorporated into a specific complex at high temperature in nitrogen atmosphere, yielding the electrocatalyst.

The team, led by Aniruddha Kundu, tested the catalyst's efficiency by merging it with a zinc-air battery and the resulting device generated high power and could be recharged. A single battery was able to power an LCD panel of a digital hygrometer, a device used to measure humidity. Three batteries connected in a series successfully illuminated multiple LEDs.

The researchers found that the battery was immune to repeated bending stresses, pointing to its robustness and viability for diverse wearable applications. The catalyst can also be used in fuel cells that can generate electricity, water and hydrogen gas, they add.

Read more: Nature

Valedictory Ceremony Marks the Conclusion of BTTD-2025 at CSIR-NML, Jamshedpur

CSIR-NML

26th June, 2025

The valedictory function of the 14th edition of "Behind The Teacher's Desk (BTTD-2025)", a three-day national-level students' seminar on Metallurgical Engineering, concluded today at the NIT Jamshedpur.

The event was jointly organized by the Indian Institute of Metals (IIM) Jamshedpur Chapter in collaboration with the CSIR–National Metallurgical Laboratory (NML), Tata Steel Limited, and the National Institute of Technology (NIT) Jamshedpur.

The BTTD has established itself as a premier platform for young metallurgists across the country. This year, the seminar witnessed enthusiastic participation from over 150 students and speakers representing various engineering institutions nationwide. In total, 78 technical papers were presented across twelve parallel sessions, covering a broad spectrum of topics in metallurgy and materials science. The second day of the event started with an interactive keynote lecture by Ms. Deeba Ahmed, Chief HRBP Corporate Functions, Tata Steel, detailing the complete spectrum of HR functions, student preparations, anxiety management, and the importance of self-development …

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Mentha Oil Distillation Unit Opened, Farmers Trained In Koraput Village

CSIR-CIMAP

26th June, 2025

Mentha, locally known as Pudina, of CIM-Unnati variety was cultivated in more than 25 acres of land first time in eight villages-- Pottuguda, Koriguda, Goluru, Kattawali, Kambri under Goluru Grampanchayat and Potubandhu, Bangargudi, and Sapraguda of Ampavali Gram Panchayat, all of Pottangi block in Koraput district. As many as 30 farmers undertook Mentha farming under the technical guidance of CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, Uttar Pradesh. This activity was supported by DMF, Koraput in a project mode and ORMAS, Koraput FPOs selected the farmers for its successful implementation. After Mentha crop successful cultivation, now a SS make boiler based distillation unit has been installed at AkaGoluru, Goluru Panchayat.

One acre of mentha crop produces 40-45 kg of essential oil through the hydrodistillation process. Mentha oil has high demand in the domestic and international market, and it is mainly used in flavour, fragrance and medicinal applications.

Koraput's hilly and pleasant climatic condition is very much suitable for this cultivation. For this activity, the support from Koraput Collector V Keerthi Vashan, CDO Benudhar Sabar, DMF Himanshu Satpathy, Deputy CEO, ORMAS, Roshan Karthik and Pottangi BDO Ram Nayak was hailed.The training programme was inaugurated by Roshan Karthik, Dr. Prasanta Kumar Rout (CSIR-CIMAP), Dr. Priyabrat Mohapatra, Krupajal Engineering College, Bhubaneswar and local Sarapanch, Baldaba Nilama.Dr. Rout narrated the importance of the Mentha crop for improving the economic and hygienic status of local tribal farmers. Karthik emphasized the marketing potential of Mentha essential oil in Odisha and neighbouring states.More than 150 farmers, FPOs and SSGs members attained this demonstration cum training program. Jitendra Kumar Verma (CSIR-CIMAP), Dr. Priyabrat Mohapatra, Jetali Hantal demonstrated the preparation of value-added products such as soap, candle, and roll-on using Mentha essential oil to FPOs, SSGs members. CSIR-CIMAP aims to prepare the mentha oil-based Toothpaste preparation at Koraput and marketing supported by ORMAS in the near future. CSIR-CIMAP aims to expand this crop in the coming season to more than 100 acres of land in the Pottangi block.

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CSIR-IHBT empowers tribal farmers with aroma mission

CSIR-IHBT

26th June, 2025

In a major step towards promoting sustainable agriculture, rural development and livelihood generation in tribal areas of Himachal Pradesh, the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, organised a series of one-day training and awareness programmes on medicinal and aromatic plants (MAPs) from June 16 to 20. These were held under the CSIR Aroma Mission Phase III and spanned across Chamba, Kullu and Kinnaur districts.

Addressing the media, CSIR-IHBT Director Dr Sudesh Kumar Yadav and Chief Scientist & Co-Nodal Officer of the Aroma Mission, Dr Rakesh Kumar, highlighted the initiative's focus on transforming tribal agriculture through innovation. The programmes aimed to equip small-scale tribal farmers with scientific knowledge, modern cultivation practices and entrepreneurial skills, enabling climate-resilient farming and enhanced economic self-reliance. The training series began on June 16 in Samra village, Bharmour (Chamba district), a region identified as an aspirational district. Conducted in collaboration with the Horticulture Department of Himachal Pradesh, the programme trained 40 farmers (25 men and 15 women) in MAP cultivation, post-harvest techniques, and market linkages. Seeds and planting material were also distributed to encourage immediate adoption.

On June 17, a hands-on session in Suppa village (Bharmour) focused on the cultivation of Tagetes minuta (aromatic marigold) and other locally suited crops. Practical field demonstrations were also included. The outreach continued on June 19 in Kullu, with a special session for farmers from the cold desert regions of Lahaul & Spiti. In collaboration with the Agriculture Department, farmers were trained in MAP varieties suited to their agro-climatic conditions and were provided with seeds and technical inputs.

Read more: Tribune

Arunachal: KVK Ziro Empowers Farmers with Training on Aromatic Crops under CSIR Aroma Mission-III

CSIR-CIMAP

27th June, 2025

In a significant step toward enhancing farmer incomes and promoting crop diversification, Krishi Vigyan Kendra (KVK), Lower Subansiri organized a Training cum Awareness Programme on Aromatic Crops at Ziro on Friday. The programme was conducted under the CSIR-Aroma Mission-III, with sponsorship and technical support from the CSIR-Central Institute of Medicinal & Aromatic Plants (CIMAP), Lucknow.

The training focused on improved cultivation, processing, and marketing of aromatic crops like Rosemary, Geranium, and Rose. The event aimed to open new avenues for income generation through the adoption of high-value aromatic plants. Dr. Hage Munth, Senior Scientist & Head of KVK Ziro, inaugurated the programme by highlighting the importance of aromatic crops in transforming rural livelihoods. She encouraged farmers to embrace this alternative farming model to ensure long-term economic sustainability. Ravi Kumar Shukla, Project Associate at CSIR-CIMAP, presented an overview of the Aroma Mission and discussed ongoing initiatives across India. He also introduced modern production technologies tailored for medicinal and aromatic crops.Following this, Manoj Kumar Yadav, Senior Technical Officer at CSIR-CIMAP, provided an in-depth session on cultivation techniques, processing methods, market linkages, and profitability models for Rosemary and Geranium. Emphasizing Ziro's status as a tourist destination, he highlighted the region's potential for value addition and agro-tourism through aromatic farming. The programme also featured an interactive Q&A session between scientists, progressive farmers, and local participants. The event concluded with the distribution of 1000 saplings (Rosemary, Geranium, and Rose) to 60 farmers from Lower Subansiri and Keyi Panyor districts.This initiative not only empowered local farmers with practical knowledge but also paved the way for a sustainable, profitable future in aromatic agriculture.

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IICT's Dr Nayani Kiranmai named founding member of INSA Women Associates

CSIR-CIMAP, IICT

28th June, 2025

In a significant step toward enhancing farmer incomes and promoting crop diversification, Krishi Vigyan Kendra (KVK), Lower Subansiri organized a Training cum Awareness Programme on Aromatic Crops at Ziro on Friday. The programme was conducted under the CSIR-Aroma Mission-III, with sponsorship and technical support from the CSIR-Central Institute of Medicinal & Aromatic Plants (CIMAP), Lucknow.

Senior scientist from the Department of Organic Synthesis and Process Chemistry, Indian Institute of Chemical Technology (IICT), Dr Nayani Kiranmai, has been selected as a founding member of the newly constituted INSA Women Associates (IWA) by the Indian National Science Academy (INSA), New Delhi.

The IWA initiative aims to address the under-representation of women in science by identifying and engaging top-performing women scientists from academia, industry, R&D organisations, NGOs, and startups, according to a press release.

Dr Kiranmai holds a PG degree (gold medal) from NIT Warangal and completed her PhD at IICT. She is a winner of the 2010 Eli Lilly and Company Asia Outstanding Thesis Award. She has also been awarded post-doctoral fellowships by the University Paris Descartes, France, as well as by Indian funding agencies, including CSIR and DST.

Read more: Telanganatoday

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