सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

News Bulletin
01 To 15 August 2025

Happy Independence Day 2025

CSIR in Media

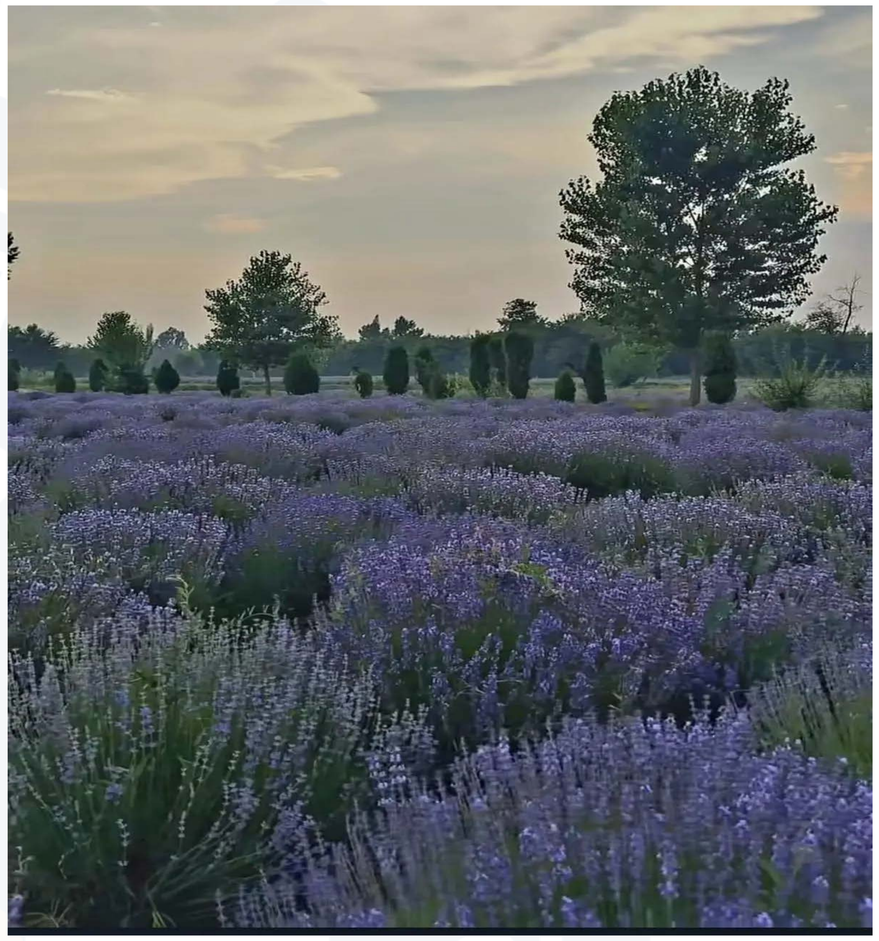
Compiled by Science Communication and Dissemination Directorate (SCDD), CSIR HQ, Anusandhan Bhawan, New Delhi

CSIR-IIIM develops India's first scientifically authenticated Lavender honey

CSIR-IIIM

30th July, 2025

India has developed its first scientifically bio-authenticated monofloral lavender honey, marking a major milestone in the country's apiculture and floriculture sectors. The innovation, led by the CSIR–Indian Institute of Integrative Medicine (CSIR-IIIM) at its Field Station in Pulwama, Jammu and Kashmir, is expected to boost functional foods, sustainable agriculture, and rural enterprise.



Developed under the Council of Scientific and Industrial Research's (CSIR) Floriculture Mission, the honey is being positioned as a science-backed, market-ready product with export potential.

Scientific Validation Using Advanced Techniques

The honey's monofloral origin from Lavandula angustifolia was confirmed using a suite of advanced technologies, including fluorescence and scanning electron microscopy, melissopalynology, gas chromatography–mass spectrometry (GC-MS …

Read More: Business Line

सीबीआरआई ने विकसित की पोर्टेबल सौर हीट पंप तकनीक

CSIR-CBRI

30th July, 2025

सीएसआईआर-सीबीआरआई (रुड़की) द्वारा विकसित पोर्टेबल सौर-सहायक हीट पंप जल तापन णाली की तकनीक बुधवार को एमएस अमीटफ टेक्निकल पेंट्स इंडस्ट्री ज को सौंपसौं दी गई है। यह तकनीक डॉ. चंदन प मीणा और संस्थान के वास्तुकला, नियोजन एवं ऊर्जा दता समूह द्वारा विकसित की गई है। यह जल तापन णाली खासतौर पर ठंडे इलाकों और पहाड़ी क्षेत्रों जैसी कठिन जलवायु परिस्थितियों में भावी ढंग से काम करने के लिए डिज़ाइन की गई है। यह णाली कॉम्पै, मॉड्यूलर ...

Read More: [Live Hindustan]

The Good Food Institute India signs MoU with CFTRI

CSIR-CFTRI

30th July, 2025

The Good Food Institute India has signed an MoU with CSIR–Central Food Technological Research Institute (CFTRI), a premier food research institution, to expedite smart protein innovation in India.

Formalised at the National Symposium on Plant Proteins in Mysuru, this collaboration will leverage CFTRI's unparalleled expertise in protein research, cutting-edge facilities, and proven technocommercialisation prowess for advancing R&D, scale-up, and talent development.

In their address, food technologist Dr Vishweshwaraiah Prakash highlighted the indispensable role of plant proteins in cultivated meat, and Dr Sridevi Annapurna Singh, Director – Central Food Technological Research Institute (CFTRI), underscored the significance of the collaboration with GFI India, given CFTRI's six decades of proficiency in plant protein innovation…

Read More: Nu Foods Spectrum

Hyderabad researcher to head CSIR-Innovation Complex, Mumbai

CSIR IC

31st July, 2025

Senior drug researcher Dr Ravikrishna Chebolu, a native of Hyderabad, has been appointed as the Head of the CSIR-Innovation Complex (CSIR-IC), Mumbai, effective July 28, by the Council of Scientific and Industrial Research (CSIR).

Dr Chebolu holds a Ph.D. in Organic Chemistry from the University of Hyderabad, where he pursued research under the mentorship of Professor Goverdhan Mehta. He completed his postdoctoral training at

Rutgers University and the University of Connecticut in the United States. Throughout his career, he has collaborated with scientists at the Hyderabad-based Indian Institute of Chemical Technology (IICT). His professional journey spans …

Read More: [Telangana Today]

उज्बेकिस्तान की तर्ज पर भारत में कोल गैसीफिकेशन का काम करेगा सिंफर

CSIR-CIMFR

01st August, 2025

सीएसआईआर-सीआईएमएफआर (सिंफर) धनबाद भूमिगत कोयला गैसीकरण (यूसीजी) की स्वदेशी तकनीक के विकास में अहम भूमिका निभाने जा रहा है। भारत के विभिन्न कोयला ब्लॉकों में कई पूर्व-व्यवहार्यता अध्ययन पूरे हो चुके हैं और अन्य अध्ययन चल रहे हैं। कई उद्योगों ने अपने-अपने कोयला ब्लॉकों में पायलट और वाणिज्यिक यूसीजी परियोजनाओं को लागू करने में रुचि दिखाई है। इनमें जीएमडीसी, अदानी, कोल इंडिया, नेवेली लिग्नाइट कॉरपोरेशन और जेएमएस माइनिंग जैसी प्रमुख कंपनियां शामिल हैं। इसी महीने सीएसआईआर-सीआईएमएफआर के दो वैज्ञानिकों प्रो. अरविंद कुमार मिश्रा (निदेशक) और डॉ विनोद आत्माराम मेंढे (मुख्य वैज्ञानिक) ने भारत सरकार के कोयला मंत्रालय के एक प्रतिनिधिमंडल के साथ उज्बेकिस्तान के अंगरेन में येरोस्टिगाज़ यूसीजी परियोजना स्थल का दौरा किया।

येरोस्टिगाज़/लिंक एनर्जी द्वारा विकसित अंगरेन यूसीजी परियोजना को दुनिया की सबसे सफल और सबसे लंबे समय से चल रही भूमिगत कोयला गैसीकरण परियोजनाओं में से एक माना जाता है। इस यात्रा से भारत में यूसीजी परियोजनाओं के संभावित विकास से संबंधित बहुमूल्य तकनीकी ...

Read More: Live Hindustan

Create roadmap to reduce dependence on imports of minerals and materials to “near zero,” ISRO Chairman tells CSIR community

CSIR-NIIST

01st August, 2025

V. Narayanan, Chairman, Indian Space Research Organisation (ISRO), has urged the laboratories under the Council of Scientific and Industrial Research (CSIR) to draw up a roadmap to reduce the dependence on imports of minerals and materials to “near zero” in 10 years. The ISRO Chairman was addressing a conclave on ‘New vistas in critical minerals and materials’ organised by the CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) here on Friday as part of its golden jubilee conclave series.

‘Self-reliance crucial’

Mr. Narayanan wanted the CSIR community to make an inventory of the total imports in this sector and seek ways to produce them here. The development of materials, whether it be metallic, composite, carbon-carbon or thermo-protection materials, play a crucial role in multiple sectors, he said. Underscoring the importance of self-reliance …

Read More: The Hindu

Book highlighting CFTRI's accomplishments released

CSIR-CFTRI

01st August, 2025

Honouring the institute's journey, a book named 'The Living Campus' was formally unveiled by the dignitaries during an event recently. It captures the institute's rich heritage, scientific accomplishments, and vibrant campus culture. This publication reflects CFTRI's longstanding contributions to food science and its evolving significance in national development.

Sridevi Annapurna Singh, Director, CSIR-CFTRI, Mysuru, traced the institute's origins back to the 1950s and underscored its longstanding legacy in technological innovation and industrial collaboration.

Drawing on her decades of experience as both an innovator and institute leader, she shared personal insights on her research journey and the evolution of …

Read More: The Hindu

Centre steps up support for Kolhapuri chappal artisans amid global attention

CSIR-CLRI

01st August, 2025

The iconic Kolhapuri chappal, a handcrafted leather footwear with deep cultural roots in Maharashtra and Karnataka, was granted Geographical Indication (GI) status in July 2019, the Minister of State for Textiles, Pabitra Margherita, informed the Rajya Sabha in a written reply today. The GI registration was filed by Sant Rohidas Leather Industries & Charmakar Development Corporation Ltd (LIDCOM), a Government of Maharashtra undertaking, and Dr. Babu Jagjivan Ram Leather Industries Development Corporation Ltd (LIDKAR), Bengaluru.

The process was facilitated by the Central Leather Research Institute (CLRI), Chennai.

The minister noted that the matter of supporting GI-tagged Kolhapuri artisans has been taken up by the concerned agencies. The Office of the Development Commissioner (Handicrafts), he said, provides financial assistance for GI registration under the Research & Development component of the National Handicrafts Development Programme (NHDP). Workshops and seminars are regularly conducted to educate artisans about the benefits of GI tags …

Read More: Greater Kashmir

Ground realities: climate and crop choices straining Telangana's water reserves

CSIR-NGRI

02nd August, 2025

Scientists at the CSIR–National Geophysical Research Institute (NGRI) have stressed the urgent need for comprehensive groundwater extraction policies and a deeper understanding of water storage in Telangana. These measures, they say, are essential to ensure water security and protect the livelihoods of nearly half the working population, who are actively engaged in agriculture and rely heavily on groundwater. In a recent study, scientists Abhilash Kumar Paswan, N. Srinivasa Rao, L. Raghu and V.M. Tiwari highlight how geological formations, agricultural water use and erratic rainfall patterns interact to create a complex and uneven groundwater recharge system.

Telangana grows two paddy crops annually, using up around 15 billion cubic metres of groundwater. The Rabi (summer) crop, in particular, is highly dependent on aquifer availability. Although the State receives 70-150 cm of rainfall annually, only about 15% contributes to groundwater recharge, often with a delay of up to two months …

Read More: The Hindu

CSIR-IIIM concludes training program on scientific beekeeping

CSIR-IIIM

02nd August, 2025

The CSIR Indian Institute of Integrative Medicine, Jammu, concluded a five day training programme on scientific beekeeping under the CSIR Floriculture Mission at its Field Station, Bonera Pulwama. The training was aimed at imparting entrepreneurial skill and capacity building of aspiring apiarists through scientific and practical knowledge in commercial apiculture. Dr Zabeer Ahmed, Director CSIR IIIM while informing about the programme emphasized on the Institute's efforts to promote the economically profitable and scalable rural bio-entrepreneurship in Jammu and Kashmir. "Beekeeping present a viable opportunity, particularly for marginal farmers and women led self help groups. This initiative will bridge the knowledge gap in traditional sectors by integrating science driven training programmes," he stated. Such efforts align with our broader goal for fostering self relient and economically empowered rural communities. A total of 25 selected participants from various districts across Jammu and Kashmir participated in the training, he added. Dr Shahid Rasool, …

Read More: Kashmir Monitor

Sweet Revolution: The Story of Empowering Women of 'Honey Bee Villages' in Gwalior's Morar Block

CSIR-NBRI

02nd August, 2025

In the heart of rural Madhya Pradesh, the villages of Ekara and Udaipur in Morar block, Gwalior are experiencing a grassroots transformation. What was once a region dependent on traditional agriculture and daily-wage labor is now buzzing with a sweet new opportunity - beekeeping. Thanks to a collaborative initiative between Vindhyanchal Farmer Producer Company Ltd. (VFPCL), CSIR-NBRI Lucknow, and the Gwalior district administration, these villages have emerged as models of rural innovation and women empowerment.

The idea behind this "Honey Bee Village" model is simple yet powerful: leverage existing rural infrastructure and scientific expertise to create a low-cost, high-return livelihood option for women. With the visionary support of Gwalior's District Collector, Smt. Ruchika Chauhan, the project began by identifying the villages of Ekara and …

Read More: Rural Voice

NAL Develops 100 kgf Thrust Small Gas Turbine Engine, NJ-100, Tailored for Tactical UAVs and Cruise Missiles

CSIR-NAL

02nd August, 2025

In a major boost to India's goal of self-reliance in defence technology, the National Aerospace Laboratories (NAL) has revealed the successful development of a new small gas turbine engine.

Named the NJ-100, this indigenously built engine is capable of producing 100 kilograms-force (kgf) of thrust and is specifically designed to power a new generation of unmanned military systems. The development of the NJ-100 engine marks a significant achievement for India's aerospace and defence sector, which has historically faced challenges in creating domestic propulsion technology. For decades, the country has relied on foreign suppliers for the engines used in its missiles and unmanned aerial vehicles (UAVs).

This new engine is engineered for critical applications such as long-range loitering munitions, advanced tactical UAVs, and compact cruise missiles, …

Read More: Defence News

Four-day health check-up camp under Phenome India commences at IIIM

CSIR-IIIM

03rd August, 2025

CSIR-Indian Institute of Integrative Medicine, Jammu organized a health check-up camp under Phenome India, a CSIR Health Cohort Knowledge Base (PI-CHeCK) initiative for the staff and pensioners of the Institute and their spouses.

Being implemented by all the CSIR institutions across India, the significant objectives of this initiative are to ensure Swasth Bharat, Viksit Bharat through a data-driven approach to health, wellness and precision medicine.

Dr Zabeer Ahmed, Director, CSIR-IIIM inaugurated this four-day health check-up camp. Speaking on the occasion, Dr Ahmed highlighted the significance of this national mission initiated by the CSIR, under the mentorship of Dr Jitendra Singh, MoS in the PMO and vice president CSIR. Following the inauguration, Dr Zabeer Ahmed visited the testing stations set up for the event, reviewed the arrangements, and interacted with the PI-CHeCK team and volunteers, encouraging active participation throughout the four-day …

Read More: Daily Excelsior

CIMAP helps create ‘mint conditions’ on Indo-Pak border

CSIR-CIMAP

03rd August, 2025

Next time someone asks you about the conditions on the India-Pakistan border, you can safely say ‘mint’. In a first, CSIR’s Central Institute of Medicinal and Aromatic Plants (CIMAP) has developed a menthol mint cluster along the Zero Line Indo-Pak border in Punjab’s Ferozepur. A team of CIMAP scientists successfully grew CIM Unnati, a high-yielding menthol mint variety developed by the institute, on 500 acres of land dotted with bunkers in the area.
But why the border area? Well, something else must grow there alongside the tensions.

To improve the financial condition of farmers living in the border areas, as its extension activity, the scientific institute helped around 60 farmers in the area to reap rich benefits by cultivating CIMAP’s menthol variety. “Farmers are yielding 70 to 80 kg from CIM Unnati, which led to an additional income of Rs 60,000 to Rs 65,000 in 120 days,” said CIMAP’s senior principal scientist Sanjay Kumar. “CIMAP’s menthol variety …

Read More: Times of India

सीएसआईआर-सीरी एवं बीकेबीआईईटी-पिलानी के बीच समझौता ज्ञापन

CSIR-CEERI

04th August, 2025

सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान (सीरी), पिलानी और बीके बिड़ला इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (बीकेबीआईईटी), पिलानी के बीच अकादमिक और अनुसंधान सहयोग को सुदृढ़ करने के उद्देश्य से एक समझौता ज्ञापन (एमओयू) पर हस्ताक्षर एवं उसका आदान-प्रदान किया गया।इस एमओयू के अंतर्गत दोनों संस्थान संयुक्त रूप से वैज्ञानिकों एवं छात्रों का आदान-प्रदान करेंगे, एम.टेक., एम.एस. एवं पीएच.डी.

छात्रों केअनुसंधान कार्य का संयुक्त पर्यवेक्षण करेंगे, तथा शैक्षणिक सामग्री एवं अनुसंधान प्रकाशनों का साझा उपयोग करेंगे। साथ ही, दोनों संस्थान संयुक्त रूप से अनुसंधान परियोजनाओं, संगोष्ठियों, कार्यशालाओं तथा समाजोपयोगी कार्यक्रमों का आयोजन भी करेंगे। इसके अतिरिक्त, प्रयोगशालाओं का सहमति के आधार पर साझा उपयोग, वर्चुअल इनक्यूबेशन प्लेटफॉर्म का निर्माण ...

Read More: Abhitak News

IIT Jammu enters tripartite MoU with CSIR-IIIM and 3 innovative start-ups

CSIR-IIIM

04th August, 2025

The Indian Institute of Technology Jammu today formalized a landmark collaboration by signing a tripartite Memorandum of Understanding with the CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu, and three pioneering start-ups—Biogreen Projects Pvt Ltd, Evlogia Eco Care Pvt Ltd, and Crop Domain Pvt Ltd.

This alliance aims to accelerate translational research, foster technology-driven entrepreneurship, and bolster regional economic development.

The MoU was inked by Prof Manoj Singh Gaur, Director of IIT Jammu, and Dr Zabeer Ahmed, Director of CSIR-IIIM, in the presence of senior scientists, faculty, and officials …

Read More: Daily Excelsior

IICT scientist awarded CRSI bronze medal for the year 2026

CSIR-IICT

06th August, 2025

Dr Rambabu Chegondi, Principal Scientist at Hyderabad-based Indian Institute of Chemical Technology (CSIR-IICT), has been awarded the prestigious Chemical Research Society of India (CRSI) Bronze Medal for the year 2026 in recognition of his significant contributions to Asymmetric Catalysis in Organic Chemistry, according to a press release on Wednesday.

Instituted in 1999 by CRSI, the CRSI Bronze Medal honours young researchers who have made outstanding contributions in any branch of Chemistry. Medallists are selected through a rigorous nomination process involving eminent scientists. Dr Chegondi will be formally presented with the CRSI Bronze Medal at the 36th CRSI National Symposium in Chemistry, to be held at Dibrugarh University in February 2026.

As part of the recognition, he will deliver a 10-minute flash talk and present a poster showcasing his research work during the event …

Read More: Telangana Today

One-month external training to GETs of Hindalco Industries Limited

CSIR-IMMT

06th August, 2025

CSIR-IMMT concluded its one-month external technical training program for Graduate Engineer Trainees (GETs) of Hindalco Industries Limited on August 05, 2025 which has been conducted from July 07-August 05, 2025 with a series of sessions (including theory/demonstrations/practical, hands-on and Learning on Wheels etc.,) on various aspects focusing the theme/objective of the training program .

This program has been attended with 39 GETs from various working stations of Hindalco Industries Limited Sanjiv Kumar Singh, CMD – Hindustan Copper Limited was the chief guest and addressed the participants highlighting the importance of copper and allied fields over the centuries taking several examples and also emphasized on the way forward for the GETs in their respective fields towards the vision of Viksit Bharat …

Read More: Odisha Ray

एसपीयू और सीएसआईआर-सीएसआईओ चंडीगढ़ में एमओयू

CSIR-CSIO

07th August, 2025

सरदार पटेल विश्वविद्यालय (एसपीयू) मंडी और केंद्रीय वैज्ञानिक उपकरण संगठन (सीएसआईआर-सीएसआईओ) चंडीगढ़ ने सहयोगात्मक अनुसंधान, नवाचार और शैक्षणिक आदान-प्रदान को बढ़ावा देने के उद्देश्य से एक समझौता ज्ञापन (एमओयू) पर हस्ताक्षर किए हैं। इस समझौता ज्ञापन पर एसपीयू, मंडी के कुलपति प्रो. ललित कुमार अवस्थी और सीएसआईआर-सीएसआईओ चंडीगढ़ के निदेशक प्रो. शांतनु भट्टाचार्य ने हस्ताक्षर किए। कुलपति प्रो. ललित अवस्थी ने बताया कि सीएसआईआर-सीएसआईओ स्वास्थ्य सेवा, कृषि और पर्यावरण निगरानी सहित विभिन्न क्षेत्रों में अपने योगदान के लिए प्रसिद्ध है। यह सहयोग एसपीयू के छात्रों को अत्याधुनिक शोध परियोजनाओं में ...

Read More: Amar Ujala

Eco-Friendly Floral Rakhis: NBRI's Green Initiative for Raksha Bandhan

CSIR-NBRI

08th August, 2025

The National Botanical Research Institute (NBRI) in Lucknow, Uttar Pradesh, has pioneered an environmentally conscious initiative by introducing floral biodegradable rakhis for Raksha Bandhan celebrations. These rakhis, crafted from natural and dried flowers, promote sustainability in festive traditions. Ajit Kumar Shasany, NBRI Director, underscored the institute's commitment to women's empowerment through this innovative project.

'We were inspired to transform our floral art into eco-friendly rakhis. This initiative also empowers women by providing them with new avenues of creativity …

Read More: Devdiscourse

Skill Development Programme culminates at CSIR-IIIM Jammu

CSIR-IIIM

09th August, 2025

The CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu culminated the second Five-Day Skill Development Programme under the CSIR Aroma Mission Phase-III, aimed at empowering women through scientific training in aromatic crop cultivation, value addition, product development, and rural entrepreneurship. Held from August 4 to 8, the programme trained 25 women participants from the Sakhi Saheli Self Help Group, Bakshi Kothe (Zone-Mandal). The training.

included technical sessions, live demonstrations of essential oil extraction and hands-on activities in aroma candle making, incense stick and dhoop preparation, fragrance blending, product packaging, and perfume formulation. Two days were dedicated to field training at CSIR Research Farm, Chatha, and three days to practical sessions …

Read More: Daily Excelsior

Govind Vidyalaya students explore science at CSIR-NML Jamshedpur

CSIR-NML

09th August, 2025

The CSIR-National Metallurgical Laboratory (NML), Jamshedpur, welcomed students and teachers from Govind Vidyalaya, Tamulia, for a special laboratory visit aimed at fostering scientific curiosity and awareness. The programme, held under the CSIR-Jigyasa Virtual Laboratory project, saw the participation of 48 students and two teachers.

The day began with an inaugural session, where CSIR-NML Director Dr. Sandip Ghosh Chowdhury delivered the welcome address. He highlighted the institute's 75 years of contributions to national development through technological innovations and pioneering research. Senior Scientist Dr. Animesh Jana, from the Institute Management & Development Centre (IMDC), spoke on CSIR-NML's research activities …

Read More: Avenue Mail

CSIR-CRRI Introduces MSS+ Technology for Sustainable Road Construction in Uttar Pradesh

CSIR-CRRI 11th August, 2025

The Council of Scientific & Industrial Research – Central Road Research Institute (CSIR-CRRI) in New Delhi has introduced a groundbreaking technology known as MSS+, which is being employed by the Uttar Pradesh Rural Road Development Authority (UPRRDA) for constructing environmentally friendly roads. This innovative approach is set to facilitate the construction of approximately 202 kilometers of roads under the Pradhan Mantri Gram Sadak Yojana (PMGSY) in Uttar Pradesh this year. The MSS+ technology not only enhances road quality but also significantly reduces carbon emissions, aligning with global sustainability goals.

Innovative Technology for Road Construction

The MSS+ technology developed by CSIR-CRRI eliminates the need for heating aggregates and bitumen, allowing for road construction in various weather conditions. This advancement has shown to produce roads with superior quality compared to traditional hot mix methods. Dr. Manoranjan Parida, Director of CSIR-CRRI and President of the Indian Roads Congress, emphasized the benefits of this technology, stating that it represents …

Read More: Observer Voice

CFTRI's Tech Connect 2025 unites entrepreneurs, innovators, MSMEs

CSIR-CFTRI

11th August , 2025

Tech Connect 2025 – Bridging Innovation and Enterprise, a collaborative roadshow hosted by CSIR-CFTRI in partnership with the National Small Industries Corporation (NSIC), brought together over 150 stakeholders at Cheluvamba Hall, CFTRI Campus, Mysuru recently.

The event aimed to connect cutting-edge food and allied processing technologies with MSMEs, entrepreneurs and industry leaders. R. Saravanakumar, Zonal General Manager of NSIC (South Zone), Bengaluru, was the chief guest, while Dr. Sridevi Annapurna Singh, Director of CSIR-CFTRI, presided over the proceedings …

Read More: Star of Mysore

SAPTA SHAKTI Command Conducts Technical Workshop WITH CSIR-CBRI

CSIR-CBRI

12th August, 2025

Lieutenant General Manjinder Singh, Army Commander, Sapta Shakti Command emphasised upon the importance of quality infrastructure and habitat in military organisations as one of the command pillars and principles of welfare. He also highlighted the benefit of supervision of a third party and additional expertise on the quality control and satisfaction.

This initiative of Sapta Shakti Command is an interdisciplinary collaboration with Central Building Research Institute (CBRI), Roorkee in pursuance of its commitment towards ensuring highest standards of quality and use of sustainable novel technologies in infrastructure development.

An MoU for quality control assurance was signed between Sapta Shakti …

Read More: Face 2 News

Workshop on leather chemicals organised

CSIR-CLRI 12th August, 2025

The Council for Scientific and Industrial Research and Central Leather Research Institute (CSIR-CLRI) Chennai organised a workshop on "Speciality leather chemicals" on Tuesday at the CLE auditorium in Unnao. Nishad Fathima N, chief scientist and head of IPCL, who was the theme head for "Speciality leather chemicals", delivered an insightful presentation on the specialty chemicals research at CSIR-CLRI. Sujata Mandal, senior principal scientist and head of AML, presented on Eco-friendly Flame Retardant, while Mohd Sayem Alam, principal scientist, AML, presented on Cold crack□resistant fat liquor. Abhinandan Kumar, scientist in-charge in Kanpur and Jalandhar, shared his practical insights about the trials conducted at industry premises. His impressive presentation and the displayed leather attracted industry representatives, who expressed strong interest …

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Lichens as Barometers of a Changing Climate in the Himalayas

CSIR-NBRI

12th August, 2025

The majestic Himalayas are not just home to the world's tallest mountains but also recognised as a global biodiversity hotspot. The region, characterised by its high altitude and varied ecosystems, is home to a unique array of plant and animal species, including many that are endemic. The region is also on the front lines of climate change. Like the rest of the planet, temperatures here are shifting, impacting the delicate balance of life. Researchers are now turning to unlikely allies in their quest to understand these changes: lichens.

A lichen is a composite organism. It emerges from algae or cyanobacteria living among the filaments (hyphae) of the fungi in a mutually beneficial symbiotic relationship. Lichens are also incredibly sensitive to their environment. A recent study, including researchers from North Eastern Hill University, Shillong, Meghalaya, Space Applications Centre-ISRO, Ahmedabad, CSIR-National Botanical Research Institute, Lucknow, and …

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Uttarkashi flash floods: NGRI experts launch search operation to trace 66 missing in disaster-hit Dharali

CSIR-NGRI

12th August, 2025

Equipped with Ground Penetrating Radars, experts from the National Geophysical Research Institute (NGRI) on Tuesday (August 12, 2025) launched a search operation to trace the 66 people, including 24 Nepali labourers, reported missing since raging waters and mudslides buried virtually half of Dharali village in Uttarkashi a week ago. The team of experts, which reached the flood-ravaged site on Monday (August 11) evening, will identify and focus on places where there may be human presence under the debris, they said.

Ground Penetrating Radars (GPRs) is a geophysical method that uses radio waves to detect objects and structures below the surface. The NGRI had used its GPRs to locate people trapped in the SLBC tunnel collapse in Telangana in February this year.

These radars of NGRI can detect human life even in the presence of mud and water, the officials said, adding that the GPR surveys will also detect anomalies within the debris …

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CSIR-NIIST Hosts Golden Jubilee Conclave on Career Opportunities and Skill Development in R&D Sectors

CSIR-NIIST

12th August, 2025

As part of its Golden Jubilee celebrations, the CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) organised a day-long conclave on "Career Opportunities and Skill Development in R&D Sectors" at its campus today. The programme brought together scientists, educationists, policymakers, industry leaders, and students to discuss strategies for nurturing talent and empowering young researchers to strengthen India's research and innovation ecosystem.

The inaugural session was presided over by Dr. C. Anandharamakrishnan, Director, CSIR-NIIST, who highlighted the institute's five decades of scientific excellence and its commitment to building skilled human capital for national development. Prof. Manoj Kumar Dhar, Director, Academy of Scientific and Innovative Research (AcSIR), delivered the keynote address as Chief Guest, emphasising the need for interdisciplinary skills, industry–academia partnerships, and innovation-driven career pathways. "There is a disconnect between skill development and employability and we need to fill that demand," he stated…

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TACC, CRRI partner to boost graphene use in durable road construction

CSIR-CRRI 13th August, 2025

LNJ Bhilwara Group firm TACC Ltd on Wednesday announced its collaboration with Central Road Research Institute (CRRI) to promote the use of graphene in road construction and infrastructure projects.

This initiative will help redefine the road-building process, while driving the nation closer to its national and global sustainability goals, a statement said.

The partnership aims to infuse graphene's properties into Indian pavements to deliver stronger and more durable roads, TACC, which produces graphene-based additives, said.

TACC is positioning graphene as a strategic enabler in India's journey towards resilient, efficient, and climate-conscious infrastructure, complementing national initiatives like PM Gati Shakti and India's 2070 net zero emissions, it added …

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Learn the art of coffee brewing at CFTRI's BioNEST

CSIR-CFTRI

13th August, 2025

BioNEST at CFTRI, in collaboration with the Coffee Quality Division, Coffee Board of India, has organised a five-day specialised Barista Training Program aimed at promoting excellence in coffee brewing and service. The program, titled "A Bean to Brew Journey – Master the Basics of Brewing", will be held from September 1 to 5 at CSIR-CFTRI, Mysuru.

This hands-on, non-residential program is open to individuals who have completed their 12th standard and wish to gain professional coffee-making expertise. The training will be conducted in English, with lunch and coffee provided daily.

Participants will learn and practice essential skills for the coffee industry, including Espresso Basics – Mastering grind size, extraction, and tamping; Milk Frothing & Latte Art – Creating perfect microfoam and its designs; Customer Service Excellence – Building rapport and delivering quality; Coffee Knowledge – From bean origins to tasting notes; Equipment Maintenance – Caring for espresso machines and grinders; Hygiene and Safety – Ensuring quality and cleanliness and Certification – From the Coffee Board …

Read More: The Hindu

Health data at CFTRI, Mysuru, to be analysed using AI and machine learning

CSIR-CFTRI

14th August, 2025

A five-day long extensive health check-up camp was organised at CSIR-CFTRI in Mysuru recently. The CSIR Health Cohort project is a multi-institutional, five-year long project covering across all CSIR laboratories. This project is being undertaken at the national level to develop clinically useful personalised risk predictions for various communicable and non-communicable diseases. Over 10,000 employees of CSIR, including retirees and their spouses, have been identified as subjects for this project.

The project, CSIR Phenome India Health Cohort Project - Phase II Camp, started during 2022, and the first phase of the project was completed during

February 2023 for CSIR□CFTRI. Those who have enrolled for this project have extensively undergone phlebotomy, including for CBC panel, Liver Function Test, and Kidney Function Test. The blood sample collected is being analysed for detailed biochemical markers as well as omics investigations, including genomics, proteomics, metabolomics, cytokines profile, and telomere length measurement …

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Cultivating the Sea: How Ulva, a Green Seaweed, Offers a Land-Saving Food Revolution

CSIR-CSMCRI

14th August, 2025

Around 50% of habitable land around the world is used for agriculture. In the process, we have destroyed forests, hills, and valleys, and continue to do so to feed an ever-growing population. India, the world's most populous nation, with an estimated 1.4 billion people, also has around 50% of its land dedicated to farming. Yet, the country is also facing freshwater shortages and erratic agricultural output, in part due to climate change. Despite large-scale agriculture, India is ranked 105th out of 127 countries in the 2024 Global Hunger Index, indicating a critical situation. This burgeoning population, coupled with persistent challenges in food security and nutrition, highlights the urgent need for innovative and sustainable food sources.

What if a portion of our food didn't come from farming vast fields but from the ocean, removing the need for both land and water in farming? This is what researchers are exploring, specifically with a vibrant green seaweed often called sea lettuce …

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Meet Giriraj Ratan Chandak, the scientist-cum-startup founder who serves through science

CSIR-CCMB

14th August, 2025

A brain passionate about science can do wonders for the world. While many young people diligently ace their science exams, few have a larger-than-life goal. They wonder, 'What should I do with all this knowledge?' Well, for Giriraj Ratan Chandak, former chief scientist and Sir JC Bose Fellow at the CSIR-Centre for Cellular and Molecular Biology (CSIR-CCMB), the answer was always within: a passion that lies in combining genetics with patient care and translating that knowledge into public health impact. "I have always felt a

deep responsibility to give back to society in whatever way I could," expresses Giriraj, who steers a startup called Lightening Lives LLP. In an insightful interview with CE, he speaks about his journey, startup, and more.

Tell us about your startup: what does it do, and what kind of impact are you hoping to make?

I have had a deeply satisfying career at the Centre for Cellular and Molecular Biology. Yet, for a physician and scientist, the journey never truly ends. I realised there were many unfinished goals I still wished to pursue. To carry that vision forward, I founded a startup called Lightening Lives LLP…

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