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CSIR in Media

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जीपीएस रिन्यूएबल्स ने एथेनॉल से SAF के व्यावसायिक पैमाने पर उत्पादन के लिए CSIR-NCL के साथ साझेदारी की

CSIR-NCL 29th September, 2025

नवीकरणीय तेल और गैस समाधानों में एक प्रमुख वैश्विक कंपनी, जीपीएस रिन्यूएबल्स ने एथेनॉल से सतत विमानन ईंधन (SAF) के उत्पादन के लिए एक व्यावसायिक प्रक्रिया विकसित करने हेतु वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद – राष्ट्रीय रासायनिक प्रयोगशाला (CSIR-NCL) के साथ साझेदारी की घोषणा की है। यह नवीन तकनीक, जिसे मेथनॉल से सतत विमानन ईंधन (SAF) उत्पादन के लिए भी अनुकूलित किया जा सकता है, अधिक सतत विमानन ईंधन उत्पादन का मार्ग प्रशस्त करेगी। इस साझेदारी के तहत, जीपीएस रिन्यूएबल्स CSIR-NCL -पेटेंट प्राप्त उत्प्रेरक पर आधारित उन्नत तकनीक में निवेश करेगा। यह तकनीक एथिलीन और अन्य ओलेफिन के एक-चरणीय ओलिगोमेराइजेशन को सक्षम बनाएगी, जहाँ छोटे अणुओं को मिलाकर विमानन टर्बाइन ईंधन (ATF) के समान बड़े अणु बनाए जाते हैं। हालाँकि एथेनॉल-से-जेट ईंधन प्रक्रिया का प्रयोगशाला स्तर पर सफलतापूर्वक प्रदर्शन किया जा चुका है, लेकिन व्यावसायिक स्तर पर उत्पादन हासिल करना एक चुनौती बनी हुई है।

CSIR-NCL की तकनीक के लिए विशेष लाइसेंस के साथ, जीपीएस रिन्यूएबल्स, एनजी SAF परियोजना ब्रांड के तहत एक व्यावसायिक पैमाने का प्लांट स्थापित करेगा, जिसका उद्देश्य पहली बड़े पैमाने पर एथेनॉल-टू-जेट उत्पादन सुविधा शुरू करना है। जीपीएस रिन्यूएबल्स ने इस आशाजनक तकनीक के व्यावसायीकरण के लिए विशेष अधिकार प्राप्त कर लिए हैं...

Read More: Chini Mandi

Assam to host India's first decaffeinated black tea plant

CSIR-NEIST 29th September, 2025

If you're sensitive to caffeine, Assam is set to offer a perfect brew. The state is poised to house India's first decaffeinated black tea factory, marking a new chapter for the country's tea industry. Decaffeinated black tea is regular black tea from which most naturally occurring caffeine has been removed, while retaining its characteristic taste, aroma, and health benefits. While many enjoy the energising effects of caffeine, some are sensitive to it or prefer a gentler beverage suitable for evenings.

Until now, India lacked indigenous technology capable of removing 95% or more caffeine from black tea without affecting its natural qualities. This gap has been bridged by the Council of Scientific and Industrial Research – North East Institute of Science and Technology (CSIR-NEIST), Jorhat, which developed the country's first homegrown decaffeination process.

The breakthrough was formally launched in New Delhi during CSIR's 84th Foundation Day celebrations, presided over by Union Minister of Science & Technology Dr Jitendra Singh. The technology has been transferred to two firms: Jalan Investments …

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Majority of bonemeal, rubber processing units at Edayar have complied with norms, claims KSPCB

CSIR-NIIST 30th September, 2025

Kerala State Pollution Control Board (KSCPB) has claimed that only two of the 20 bonemeal units, chicken waste rendering plants, and rubber processing units in the Edayar industrial area were left to comply with the directives issued to check uncotrolled emission into the atmosphere.

These 20 units were served closure or closure-intention notices for violation of environmental norms between April 2024 and January 2025 by the board. The directive was issued after a study by the CSIR–National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, in September 2023, found that biofilters used to remove pollutants and odour from air impacted by industrial and manufacturing processes were not functioning properly in units involved in rubber, meat and waste processing.

The two units that have sought time to comply with the prescribed norms are Alliance Marine Products and Organo Fertilizers (chicken waste rendering units…

Read More: The Hindu

Check exploitation of natural resources

CSIR-NBRI 30th September, 2025

Exploitation of natural resources has increased in the process of economic growth, resulting in changing climatic conditions which should be addressed with immediate effect, according to experts.

Speaking at the 84th Foundation Day celebration of the Council of Scientific and Industrial Research (CSIR) at the National Botanical Research Institute on Monday, BBAU vice-chancellor Prof Raj Kumar Mittal said, "Inclusive development is the need of the hour for which exploitation of natural resources should be stopped."

"Excessive exploitation of natural resources, driven by economic growth, leads to climate change by releasing greenhouse gases, primarily from fossil fuels, and by altering landscapes through deforestation, industrial activity, and agriculture…

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CSIR must now play an integral role towards Viksit Bharat 2047: Dr. Mande

CSIR-NIIST 30th September, 2025

The CSIR–National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, celebrated the 84th CSIR Foundation Day on 30th September 2025 with a series of programs that reflected on the organisation's scientific legacy, its impact on society, and its future role in national development. The event brought together distinguished scientists, faculty, staff, and students in a spirit of pride and commitment to science for societal good.

The celebrations began with a welcome address by Dr. T. P. D. Rajan, Head, HRAD, CSIR-NIIST, followed by the Presidential Address by Dr. C. Anandharamakrishnan, Director, CSIR-NIIST. In his address, Dr. Anandharamakrishnan highlighted the institute's contributions across multiple domains of science and technology and underlined …

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Union minister inaugurates India's first 3D-printed rural house

CSIR-CBRI 01st October, 2025

Union minister Chandra Sekhar Pemmasani inaugurated the country's first 3D concrete-printed rural house at the Central Building Research Institute (CSIR-CBRI) in Uttarakhand's Roorkee on Wednesday. The landmark innovation marks a defining moment in India's rural-housing journey, bridging traditional knowledge with cutting-edge technology, a statement issued by the Department of Science and Technology (DST) said.

Addressing scientists, researchers and stakeholders, Pemmasani said India has shown an "unwavering commitment" to provide housing for all.

"From mud walls to 3D printing, India has demonstrated its unwavering commitment to providing safe, strong and sustainable homes for all. These 3D-printed houses are not merely about technology -- they represent a future where housing is affordable, adaptable and environmentally-responsible," the minister of state for rural development said…

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CCMB scientist G Umapathy elected fellow of National Academy of Sciences 2025

CSIR-CCMB 02nd October, 2025

Prof Govindhaswamy Umapathy, chief scientist and head of the Laboratory for Conservation of Endangered Species (LaCONES) at CSIR–Centre for Cellular and Molecular Biology (CCMB), was elected Fellow of the National Academy of Sciences, India, for 2025.

Prof Umapathy was recognised for his contributions to biodiversity conservation, environmental DNA, and wildlife genomics. He is also a professor at the Academy of Scientific and Innovative Research (AcSIR), New Delhi, and adjunct faculty at the National Institute of Advanced Studies, Bengaluru.

A gold medallist in MSc Wildlife Science from Bharathidasan University, Tiruchirappalli, Prof Umapathy obtained his PhD from the Salim Ali Centre for Ornithology and Natural History, Coimbatore, in 1998. After two years of post-doctoral research, he joined CCMB …

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National Dhanwantari Ayurveda Awards 2025 Reflect Ayurveda's Academic, Clinical, and Scientific Progress

CSIR-IGIB 02nd October, 2025

The Ministry of AYUSH conferred the National Dhanwantari Ayurveda Awards 2025 on Prof. Banwari Lal Gaur, Vaidya Neelakandhan Mooss E.T., and Vaidya Bhavana Prasher, recognising their outstanding contributions to the field of Ayurveda across academic, traditional, and scientific domains.

The awards celebrate individuals who have made impactful contributions to the promotion, preservation, and advancement of Ayurveda. This year's awardees represent a unique convergence of classical scholarship, living tradition, and scientific innovation.

Prof. Banwari Lal Gaur: Strengthening Ayurveda through Language and Literature

Prof. Banwari Lal Gaur, a noted scholar and academician, has spent over six decades contributing to Ayurvedic education and Sanskrit scholarship. He has authored 31 books and over 700 academic works, including 319 publications in Sanskrit. His mentorship of 24 PhD scholars and 48 postgraduates highlights his role in shaping the academic future …

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Gandhi Jayanthi Observed as Shramdhan Day at CSIR-SERC

CSIR-SERC 03rd October, 2025

Gandhi Jayanthi was celebrated as Shramdhan Day at CSIR-Structural Engineering Research Centre (CSIR-SERC), CSIR Madras Complex (CMC), and the Tower Testing Research Station, Thirusulam.

The event began with floral tributes to Mahatma Gandhi and the administration of the Swachhata Shapath (Cleanliness Pledge) to staff.

A campus-wide cleanliness drive followed, with enthusiastic participation from employees of CSIR-SERC and CMC. As part of the initiative, saplings were planted behind the Structural Testing Laboratory to promote environmental sustainability…

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CSIR ने लविवि प्रो गीतांजलि मिश्रा की परियोजना को दी 26 लाख की स्वीकृति

CSIR 03rd October, 2025

औद्योगिक अनुसंधान परिषद ने लखनऊ विश्वविद्यालय की जंतु विज्ञान विभाग की प्रोफेसर गीतांजलि मिश्रा की एक अभिनव शोध परियोजना को ASPIRE का र्यक्रम के अंतर्गत 26 लाख रुपये की वित्तीय सहायता प्रदान की है। यह सहायता तीन वर्षों की अवधि के लिए स्वीकृत की गई है। लेडीबर्ड बीटल्स लंबे समय से फसलों के हानिकारक कीटों जैसे एफिड्स, व्हाइटफ्लाई और मिलीबग्स के प्राकृतिक शिकारियों के रूप में पहचाने जाते हैं। यह परियोजना खासतौर पर इन बीटल्स की त्वचा पर पाए जाने वाले क्यूटिकुलर हाइड्रो कार्बन (CHCs) का विश्लेषण करेगी, ताकि यह समझा जा सके कि ये रसायन इन जीवों की फिटनेस, जीवन क्षमता और प्रजनन सफलता के सूचक कैसे होते हैं। इस शोध का उद्देश्य है कि CHCs की संरचना के माध्यम से लेडीबर्ड बीटल्स की गुणवत्ता और क्षमता का आकलन किया जा सके ताकि उन्हें अधिक प्रभावी बायोकंट्रो ल एजेंट्स के रूप में इस्तेमाल किया जा सके।

संचार, सुरक्षा और चयन का जैव-रासायनिक आधार

CHCs न केवल कीटों के शरीर को सूखे वातावरण में जल हानि से बचाते हैं, बल्कि ये संचार के संकेतक के रूप में भी कार्य करते हैं, जैसे कि साथी की पहचान, प्रजनन स्थिति, और सामाजिक व्यवहारों का निर्धारण। CHCs की संरचना इन कीटों के स्वास्थ्य और शारीरिक स्थिति का प्रतिबिंब हो सकती है, जिससे ये विश्वसनीय फिटनेस इंडिकेटर बन जाते हैं। यदि पर्यावरणीय बदलाव, …

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Wild ways to flavour mountain life, economy

CSIR-IIIM 03rd October, 2025

Ladakh's cold desert climate is marked by low rainfall, thin air, intense solar radiation, and harsh winters. Amidst this barrenness, wild edible plants have sustained, adapting with features like waxy or hairy leaves that minimise water loss and enhance hardiness, to survive in this region located at an altitude of 2,800–5,500 metres above sea level. "The climatic conditions contribute to a short growing season during which wild plants such as seabuckthorn (Hippophae rhamnoides), wild rhubarb (Rheum australe), and high-altitude herbs like caraway (Carum carvi) and somlata (Ephedra gerardiana) store high levels of vitamins, antioxidants, and minerals. In a land with limited farming, these wild edible plants are vital for people, livestock, and cultural heritage," says Bilal Mir, senior assistant professor, Department of Botany, University of Kashmir…

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Scientists create 'mirror-image' nanopores for early cancer detection, personalised diagnostics

CSIR-NIIST 03rd October, 2025

Scientists at BRIC-RGCB have built tiny "mirror-image" pores that work like nature's own protein tunnels but are made from flipped synthetic peptides. These could help in the early detection of diseases such as cancer, as well as in personalised diagnostics.

The team of researchers, led by faculty scientist Dr Mahendran K R, developed these new pores, called DpPorA. According to an RGCB release here on Friday, they mimic natural proteins but are built from mirror-image peptides, meaning their structures are flipped like a reflection in a mirror. Computer simulations confirmed that these mirror-image pores are exact structural opposites of the natural versions and also make them more stable and selective than their natural counterparts, the release said.

The study is published in the latest edition of Nature Communications. Furthermore, the researchers fine-tuned their design to create even more sophisticated pores that allow specific molecules to pass through while blocking others.

"Using these advanced nanopores, we could detect a wide variety of biomolecules—from small sugar rings to full-length proteins. It opens the door for early detection of diseases like cancer and personalised diagnostics," explained Dr Mahendran…

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SMVDU students visit CSIR-IIIM

CSIR-IIIM 03rd October, 2025

Students of the Design Your Degree (DYD) programme, first and second year, from Shri Mata Vaishno Devi University (SMVDU), Katra, Friday visited the Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu.

According to a statement issued here, the educational trip was part of the Open Day celebrations at IIIM, aimed at encouraging young minds toward entrepreneurship, innovation, and research-driven growth. During the visit, students interacted with scientists and practitioners across multiple disciplines. They witnessed live demonstrations in Plant Biotechnology, Pharmacology, Fermentation Technology, Technology Business Incubation (TBI), Discovery Informatics, Value Addition, Quality Control & Quality Assurance (QCQA), and advanced Instrumentation, including sophisticated facilities such as NMR and HPLC.A key highlight was the introduction to modern plant tissue culture techniques for conserving rare germplasm, alongside an exploration of the Herbarium where valuable specimens, seeds, and plant parts are systematically preserved. The focus was placed on MSME entrepreneurship, startup culture, and the role of innovation in driving future economic growth. CSIR-IIIM, Jammu…

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How is CSIR-AMPRI's Indigenous SODAR Innovation Enhancing India's Weather Forecasting?

CSIR-AMPRI 04th October, 2025

The newly created Sound Detection and Ranging (SODAR) facility, engineered by the CSIR-Advanced Materials and Processes Research Institute (AMPRI) in Bhopal, is set to significantly improve India's weather forecasting capabilities.

This homegrown technology was officially inaugurated at the India Meteorological Department (IMD) in New Delhi. According to Dr. N. Kalaiselvi, the Director

Dr. M. Mohapatra, DGM of IMD, emphasized, "The SODAR unit at AMPRI will enhance value and provide supplementary data for improved weather forecasts." This MoU aims to advance collaborative research between CSIR-AMPRI and IMD focused on climate and environmental studies, addressing scientific and societal issues linked to weather, climate variability, forecasting, and disaster risk mitigation. The agreement enables the sharing of SODAR …

Read More: Nation Press

Indian, Pakistani Sindhis genetically different, finds CCMB

CSIR-CCMB 04th October, 2025

A study by the Centre for Cellular and Molecular Biology (CCMB) has found that the Sindhi population on India's west coast has a unique genetic makeup, distinct from Pakistani Sindhis.They show genetic affinities with Burusho- or Hazara-like groups from Pakistan as well as evidence of recent assimilation with local populations such as the Konkani.

According to a CCMB press release on Friday, this is the first high-throughput genetic study on the Sindhi population living on India's west coast. The research was conducted by Dr Kumarasamy Thangaraj, CSIR Bhatnagar Fellow at CCMB, Hyderabad, and his colleague Dr Lomous Kumar, a postdoctoral researcher at DST-Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow. They examined the common ancestry, local assimilation, and migration history of the Sindhi population.The study was published on 30 September in the journal Human Genomics. Researchers generated genetic data from six lakh DNA markers and analysed it using advanced analytical and statistical methods.

Dr Kumarasamy Thangaraj explained that the presence of a unique East Asian genetic component in west coast Sindhis, compared to Pakistani Sindhis, could be attributed to minor admixtures either directly through Mongolian migrations or via contacts with Burusho- and Hazara-like groups in present-day Pakistan …

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India's first decaf black tea launched by CSIR-NEIST Jorhat using local technology

CSIR-NEIST 05th October, 2025

Decaffeinated black tea, first of its kind in the country, produced by indigenous technology developed by scientists of Council of Scientific and Industrial Research (CSIR)-North East Institute of Science and Technology (NEIST), Jorhat, was launched by the Union Minister of State for Science and Technology Dr Jitendra Singh, recently.

A CSIR-NEIST official informed that Dr Singh, who is also the Vice-President of CSIR, released the decaffeinated black tea at the two-day (September 24-26) 'CSIR Super Model Store' organised as part of 84th CSIR Day celebrations held at Dilli Haat, Delhi, where different entrepreneurs and industries based on CSIR technologies across the country took part…

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Why Are Odisha's Tribal Farmers Abandoning GI-Tagged Kandhamal Haldi?

CSIR-CIMAP 06th October, 2025

For decades, Kondh tribals and Scheduled Caste farmers in Odisha's tribal-dominated Kalahandi district proudly cultivated GI-tagged Kandhamal Haldi (turmeric). Its reputation as a globally renowned spice, backed by the Geographical Indication (GI) tag, gave them a sense of pride. Last year, in a dramatic shift, about 30 farmers decided to move away from their famed turmeric. With guidance from the Agency for Welfare Activities for Rural Development (AWARD), they began experimenting with CIM-Pitambar, a new turmeric variety developed by the Central Institute of Aromatic and Medicinal Plants (CIMAP) in Lucknow.

Alongside, they planted lemongrass, palmarosa, mentha, and tulsi on nearly 30 acres of land. The shift marked the beginning of a new agricultural experiment—one blending tradition with innovation, and hope with hard science…

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IIIM celebrates 84th CSIR Foundation Day

CSIR-IIIM 07th October, 2025

CSIR-Indian Institute of Integrative Medicine (IIIM), Jammu celebrated the 84th CSIR Foundation Day by organising an event at C K Atal Auditorium of the institute. Dr. Ram A. Vishwakarma, Distinguished Scientist, CSIR & Ex-Director, CSIR-IIIM, Jammu, was the chief guest of the function which was attended by the invited guests from the industry and academia, scientific, technical and admin staff including the research scholars and the pensioners. A spokesperson informed that the event also witnessed the signing of significant collaborative agreements, marking another milestone in the institute's journey of scientific excellence and innovation.

Delivering the Foundation Day address on "Pharma/Biopharma Landscape in CSIR: Targets and Roadmap," Dr. Ram Vishwakarma traced CSIR's pioneering role in India's pharmaceutical sector. "This day holds a significant importance, as everything around us is driven by science. Real transformation is achieved through scientific innovation – it represents the genuine return on investments (ROI)," Dr. Vishwakarma emphasized …

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CSIR-SERC Collaborates with NATRAX, Madhya Pradesh, through MoU for Sustainable Material Design, Infrastructure Development, and Knowledge Exchange

CSIR-SERC 08th October, 2025

CSIR-SERC (Structural Engineering Research Centre), a premier national laboratory under CSIR, is engaged in the analysis, design and testing of structures and structural components. CSIR-SERC carries out Research and Development to develop indigenous technologies by utilizing the immense natural wealth of India in the area of Structural Engineering and multidisciplinary sciences. Over the years, the laboratory has generated a large number of inventions, patents, formulations, knowhow/ processes which can be transferred to industries for commercial exploitation and for societal benefits. CSIR-SERC has built up excellent facilities and expertise for the analysis, design and testing of structures and structural components.

NATRAX is a State-of-the-Art Automotive Testing and Certification Centre, operating under the National Automotive Board (NAB), Ministry of Heavy Industries, Government of India…

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CSIR to develop non-invasive techniques for detecting Parkinson's, hepatitis

CSIR-IMTECH 08th October, 2025

The Council of Scientific and Industrial Research (CSIR) has launched a project to develop non-invasive techniques for detecting several "hard-to-treat" medical disorders by manipulating microorganisms present in the digestive system. This initiative will enable precise and faster therapy more attuned to Indian conditions. Titled "Comprehensive Analysis of Niche Microbial Dysbiosis in Human Diseases", the project will cover five disorders, including Parkinson's disease, acne, inflammatory bowel disease, and severe alcoholic hepatitis. The Institute of Microbial Technology (IMTECH), Chandigarh, is the nodal laboratory for the project, and five CSIR laboratories are involved in the research work. The project is expected to be completed in about three years.

"Most medical disorders are connected with the gut," said Dr Rashmi Kumar, who is heading the project at IMTECH. "If we can identify the microbial signatures present in the gut of humans from blood or stool samples and then manipulate or modify them, we will be able to devise more effective remedies," she added. Artificial intelligence models will be integrated into the analysis tools to create a non-invasive model that can predict the stage and onset of a disease simply by checking the patient's gut profile…

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Celebrating Science, Nature, and Community: CSIR-IHBT Marks 84 Years of Innovation and Impact

CSIR-IHBT 08th October, 2025

The CSIR-Institute of Himalayan Bioresource Technology (IHBT), nestled in the serene hills of Palampur, Himachal Pradesh, celebrated the 84th CSIR Foundation Day on October 8, 2025, with warmth, pride, and a spirit of togetherness.

The event was graced by Prof. RP Tiwari, Vice Chancellor of the Central University of Punjab, Bathinda, as the Chief Guest. In his inspiring address, Prof. Tiwari praised CSIR's legacy of scientific excellence and its contributions to both national progress and global innovation. He urged everyone to embrace eco-conscious living and highlighted the Himalayas as a "living laboratory" that nurtures human well-being through its rich bioresources.

Dr. Ravikrishna Chebolu, Distinguished Scientist and Head of CSIR-Innovation Complex, Mumbai, delivered a compelling keynote on "Global Trends in Healthcare and India's Alignment." He spoke about India's unique position in the evolving healthcare landscape, emphasizing the rise of personalized medicine and the transformative role of artificial intelligence…

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CSIR-CIMFR's Role in Flattening Ulwe Hill for Navi Mumbai Airport Inauguration

CSIR-CIMFR 08th October, 2025

As Prime Minister Narendra Modi inaugurated the newly constructed Navi Mumbai airport on Wednesday, it also marked another milestone for the Dhanbad-based CSIR–Central Institute of Mining and Fuel Research (CSIR-CIMFR). The PSU's Rock Engineering Research Group played a key role in flattening of the 92- metre-high Ulwe Hill to make way for the greenfield airport project. The airport has been built on public private partnership mode by Adani Group.

Talking to TOI, CSIR-CIMFR's director Arvind Kumar Mishra boasted about their PSU's contribution in 'nation building' dubbing the successfully executed job as one of the toughest. On the challenges, he said, "The assignment included the flattening of the 92-metre-high Ulwe Hill using advanced controlled blasting techniques, as the area was surrounded by several villages and sensitive structures. Also, the work on the airport in form of laying of concrete structures was also underway. Hence, the blasting of the hill had to be done very carefully ensuring no kind of damage to habitation and lives nearby and the airport construction. Collectively, our experts managed to do the job well …

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Jammu farmers embrace aromatic revolution at CSIR-IHBT training

CSIR-IHBT 08th October, 2025

A two-day training and awareness programme on aromatic and high-value crops held at the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, marked a new chapter for farmers from the Jammu region. The initiative focused on promoting agricultural diversification and sustainable income generation through the cultivation of aromatic, medicinal and high-value floriculture crops.

Over 30 farmers from Jammu — traditionally engaged in growing wheat, maize, turmeric, sesame and millet mainly for self-sustenance — participated in the programme. These farmers, often challenged by monkey menace, peacock and wild boar damage and rain-fed farming conditions, found renewed hope in the promise of resilient, profitable crop options.

In his inaugural address, Dr Sudesh Kumar Yadav, Director, CSIR-IHBT, reaffirmed the institute's commitment to promoting aromatic and high-value crop cultivation across the north-western Himalayas. He assured participants of complete scientific and technical support, emphasising that such crops could significantly enhance rural livelihoods through sustainable farming and value addition…

Read More: Tribune India

CCMB Hosts Meet On Non-Animal Research

CSIR-CCMB 09th October, 2025

Over 180 scientists from across the country are attending a three-day national conference on Alternatives to Animal Experiments that began on Wednesday at the CSIR–Centre for Cellular and Molecular Biology (CCMB). The event, organised in collaboration with the Society for Alternatives to Animal Experiments–India (SAAE-I), focuses on advancing humane and ethical research practices. The conference, running from October 8 to 10, highlights the 3Rs principle — Replacement, Reduction and Refinement — to promote humane and ethical research practices. The event features keynote talks, oral and poster presentations and sessions on organoid and stem-cell models, in-vitro systems, computational biology, and AI-driven toxicology. "With global emphasis shifting towards humane science, finding effective alternatives to animal testing is essential," said Dr Bokara Kiran Kumar and Dr Mohammed Idris of CCMB. "Modern approaches are not only reducing animal use but also improving the precision and reproducibility of biomedical research," …

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AP forms high-level panel to drive hydrogen investments

CSIR-NCL 09th October, 2025

In a strategic move to position Amaravati as India's green hydrogen valley, the Andhra Pradesh govt has constituted a high-level advisory committee to attract major investments in the sector. The committee will be chaired by NITI Aayog member VK Saraswat, with chief secretary K Vijayanand as co-chair. SRM University's Dr D. Narayana Rao will serve as member-secretary, and APNREDCAP MD Kamalakara Babu as member-convenor. The 21-member panel includes top scientists, industry leaders, and policy experts. The state's focus spans green hydrogen production, storage, distribution, and applications across industry, transport, and power generation. The committee will also advise on policy frameworks, standards, and capacity building to support a sustainable hydrogen ecosystem.

Chief secretary Vijayanand said the July green hydrogen summit — attended by global partners, startups, and leading scientists — led to the unveiling of the Green Hydrogen Valley Declaration. Andhra Pradesh now aims to become India's largest green hydrogen hub, with a roadmap to transform the state by 2030…

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सीएसआइआर–एनएमएल, जमशेदपुर में “खनिज एवं धातुओं के परिष्करण और निष्कर्षण” पर आधारित उद्योग सम्मेलन 2025 का आयोजन किया गया

CSIR-NML 09th October, 2025

सीएसआइआर–राष्ट्री य धातुकर्म प्रयोगशाला (सीएसआइआर–एनएमएल), जमशेदपुर द्वारा “खनिज एवं धातुओं के परिष्करण और निष्कर्षण” पर आधारित उद्योग सम्मेलन 2025 का आयोजन किया गया, जिसका उद्देश्य अनुसंधान, संसाधनों और उद्योगों के बीच समन्वय स्थापित कर सतत विकास को बढ़ावा देना था, यह कार्यक्रम सीएसआइआर–एनएमएल की प्लेटिनम जुबिली (75वीं वर्षगांठ) का एक महत्वपूर्ण पड़ाव रहा, जिसमें प्रयोगशाला की खनिज प्रसंस्करण, धातु निष्कर्षण और धातुकर्म नवाचारों में दशकों की उपलब्धियों को रेखांकित किया गया|

इस सम्मेलन में भारत भर के उद्योग विशेषज्ञों, ज्ञों तकनीकी विशेषज्ञों, ज्ञों शोधकर्ताओं और नीति निर्माताओं ने भाग लिया और खनिज परिष्करण, मूल्य संवर्धन एवं सतत खनिज विकास के भविष्य पर विचार-विमर्श किया. प्रारंभिक सत्र पारंपरिक दीप प्रज्वलन से शुरू हुआ. इसके बाद सीएसआइआर–एनएमएल के निदेशक डॉ. संदीप घोष चौधुरी ने स्वागत भाषण किया और संस्थान की स्वदेशी तकनीकों और औद्योगिक सहयोग की विरासत को रेखांकित किया. मुख्य अतिथि प्रदीप कुमार पी. (प्रबंध निदेशक, केरल मिनरल्स एंड मेटल्स लिमिटेड) ने अपने उद्घाटन भाषण में केएमएमएल–एनएमएल साझेदारी के महत्व पर प्रकाश डाला और अनुसंधान-आधारित नवाचार तथा सतत खनिज उपयोग को भारत के औद्योगिक परिवर्तन में सहायक ...

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How India's National Biobank can power next frontier in healthcare

CSIR-IGIB 09th October, 2025

In 1996, the term biobank was first used by researchers Steffen Loft and Henrik Enghusen Poulsen to describe the use of human biological material in studying cancer risk factors. Since then, biobanking has evolved into a cornerstone of medical innovation worldwide, powered by advances in genomics, proteomics, metabolomics and the ability to analyze vast patient-linked datasets. Globally, it has emerged as one of the most powerful engines of discovery, accelerating drug development, strengthening diagnostics and enabling healthcare systems to move from reactive to predictive care.

India has now entered this frontier with the launch of the Phenome India National Biobank at the CSIR–Institute of Genomics and Integrative Biology (IGIB). Backed by the Council of Scientific and Industrial Research (CSIR), this initiative is designed to build a longitudinal health database that reflects India's vast ethnic, regional and socio-economic diversity. Inspired by the UK Biobank, but tailored to India's unique health landscape, it aims to collect genomic, clinical and lifestyle data from 10,000 individuals across the country…

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Gut feeling: Chandigarh IMTECH project to decrypt microbe secrets

CSIR-IMTECH 09th October, 2025

A major three-year scientific collaboration has launched across India to investigate a revolutionary idea: that the trillions of bacteria living in the human digestive system — the gut microbiome — hold the key to diagnosing and treating some of the nation's most challenging chronic diseases.
The project, titled "Comprehensive Analysis of Niche-Specific Microbial Dysbiosis in Human Diseases", aims to create a uniquely Indian dataset that could fundamentally change clinical approaches to illnesses such as Parkinson's disease (PD), inflammatory bowel disease (IBD), acne, and severe alcoholic hepatitis. The research is being led by the Institute of Microbial Technology (IMTECH) in Chandigarh, with the central goal of identifying a unique microbial fingerprint associated with each disease.

Disrupted Bacteria and Disease Signatures

Scientists believe that when the body's community of gut bacteria is disrupted—a condition known as dysbiosis—it can either trigger or reflect the onset of chronic illness. By using advanced Next-Generation Sequencing technology to rapidly decode bacterial DNA, researchers hope to pinpoint the exact "signature" of an unhealthy gut at different stages of a disease…

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6 Eco-Innovations Feature In NEERI's 'Sustainovate'

CSIR-NEERI 09th October, 2025

The CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, identified six outstanding ecoinnovations under its maiden ecopreneurship contest 'Sustainovate 2025'. This initiative aimed at nurturing sciencebased, scalable solutions to pressing environmental challenges.

The national-level initiative invited entries from students, startups, researchers, and entrepreneurs to promote sustainable, technology-driven ideas. Over 110 proposals were received from across India, focusing on smart solutions in water, waste, sanitation, circular economy, climate change, and AI-based environmental applications.

After a rigorous multi-stage evaluation, six innovations were selected: GenX Research – Resilient Ammonia Emission Management in Poultry Farms (IoT-based solution); Parul Balaji Khurana (GN Khalsa College, Matunga) – Waste to Wealth: Circular Revalorization of Floral Waste; Ambiator Pvt Ltd – Cooling Without Warming the Planet; SuperData Labs – DEPINE: Dynamic Emission Factors for Integrated Net-Zero Ecosystems; Bisket Labs – Sustainable Printed Circuit Boards from Agricultural Waste; Dr B. Kailashkumar (Paavai Engineering College) – Banana Fiber Extractor for Small and Marginal Farmers…

Read More: Times of India

CSIR-NBRI's 'Namoh 108' lotus to bloom across UP

CSIR-NBRI 09th October, 2025

The National Botanical Research Institute (NBRI) is set to make its premium 'Namoh 108' lotus variety available for cultivation and religious offerings in Uttar Pradesh. This unique lotus, renowned for its 108 petals and pastel pink hue, will soon be cultivated in Bareilly, following its successful cultivation in Pune in Maharashtra, Erode in Tamil Nadu, Berhampur in Odisha and Kolkata in West Bengal. If all goes well, 'Namoh 108' will soon be available in the market to offer to Goddess Lakshmi during Diwali, as the lotus variety blooms during Sept and Oct in the climatic conditions of UttarPradesh. In southern India, it blooms throughout the year.

CSIR-NBRI director Ajit Sahsany shared that the 'Namoh 108' lotus, identified by CSIR-NBRI scientists in 2023, is celebrated for its unmatched beauty and spiritual significance. The parent variety was originally collected from Manipur and meticulously grown in Lucknow's botanic garden over three years. CSIR-NBRI pioneered the sequencing of this lotus's genome, marking a first in India's botanical research landscape…

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CSMCRI celebrates 84th foundation day

CSIR-CSMCRI 09th October, 2025

The Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar, celebrated the 84th CSIR Foundation Day on Wednesday with a series of scientific and academic events. The institute hosted an open house for school and college students, offering them a glimpse into its ongoing research in marine chemicals, desalination, and sustainable technologies. LS. Shashidhara, director of the National Centre for Biological Sciences (NCBS), Bengaluru, delivered the Foundation Day lecture on post-independence Indian science. S Ramakrishnan from the Indian Institute of Science (IISc), Bengaluru, spoke on the boon and bane of plastics.

In his address, Kannan Srinivasan, director of CSIR-CSMCRI, spoke about the the institute's achievements and urged researchers to aim for global leadership in science …

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Kerala Government Allots 10 Acres for New Innovation Centre at Bio360 Life Sciences Park: NIIST Director

CSIR-NIIST 10th October, 2025

The valedictory ceremony of the Golden Jubilee celebrations of the CSIR–National Institute for Interdisciplinary Science and Technology (CSIR–NIIST), under the Department of Science and Technology, Government of India, will be held on October 15, 2025, at the institute's campus in Pappanamcode, Thiruvananthapuram. Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science and Technology, will be the Chief Guest, announced Dr. C. Anandharamakrishnan, Director of CSIR–NIIST, at a press conference held in Thiruvananthapuram.

As part of the ceremony, Dr. Singh will inaugurate the newly constructed Golden Jubilee Innovation Centre, designed to promote innovation-driven entrepreneurship and strengthen industry partnerships. He will also inaugurate the Automated Nodal Hub for Deployment of Next-Generation Dye-Sensitized Light Harvesters and a new Artificial Intelligence and Machine Learning Laboratory. Dr. Anandharamakrishnan announced that NIIST has developed a nature-based purification system to address the recurring issues of algal bloom, fish mortality, and unpleasant odour in the sacred Padmatheertha Pond near the Sree Padmanabhaswamy Temple. The system will be continuously monitored for a year before being scaled to other urban water bodies across the country …

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Research-driven innovation key to India's industrial transformation: KMML MD at CSIR–NML Industry Conclave

CSIR-NML 10th October, 2025

The CSIR–National Metallurgical Laboratory (CSIR–NML), Jamshedpur, organised the Industry Conclave 2025 on Beneficiation and Extraction of Minerals & Metals at the Vigyan Auditorium, CSIR Madras Complex, Chennai. The event focused on bridging research, resources, and industry for sustainable growth and marked an important milestone in the Platinum Jubilee celebrations of CSIR–NML, commemorating 75 years of excellence in metallurgical innovation.

The conclave brought together industry leaders, technologists, researchers, and policymakers from across the country to discuss the future of mineral beneficiation, metal extraction, value addition, and sustainability in the minerals sector. It served as a vibrant platform for industry–research collaborations, technology demonstrations, and strategic dialogue aimed at strengthening India's self-reliance in mineral resources for a Viksit Bharat.

The inaugural session began with a traditional lamp-lighting ceremony, followed by welcome remarks from Dr. Sandip Ghosh Chowdhury, Director, CSIR–NML. He highlighted the laboratory's legacy in developing indigenous technologies and promoting collaborative research for industrial growth…

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BEL, CSIR-CEERI ink MoU to indigenously develop advanced technologies critical to nation's defence

CSIR-CEERI

10th October, 2025

Navratna Defence PSU Bharat Electronics Limited (BEL), a leading Indian aerospace and defence company, and CSIR-Central Electronic Engineering Research Institute (CSIR-CEERI), a constituent research laboratory of CSIR engaged in R&D of a wide range of electronics products/systems, have signed a Memorandum of Understanding (MoU) to collaborate on the design and

development of Microwave Vacuum Electron Devices (MVEDs), RF and MW products, futuristic Antennas, MEMS based products for radar, communication…

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Scientists decode ancient earthquakes using quartz clocks in the earth — Sand Dikes

CSIR-NGRI 10th October, 2025

Paleoseismology helps scientists understand how frequently large earthquakes have occurred in the past — especially in regions with incomplete or no historical seismic records. By studying traces of ancient earthquakes preserved in the ground, researchers can determine when they occurred, how strong they were, how often they might recur, and how geological faults evolve over time.

This knowledge is crucial for improving building safety codes and designing effective earthquake mitigation strategies to better protect communities, according to scientists.
Radiocarbon dating has long been used to determine the age of organic materials in fossils and archaeological artefacts. Geologists also apply this technique to pinpoint the timing of major past earthquakes. Evidence of such seismic events — caused by the continuous movement of tectonic plates — is often preserved in sediments as distinctive features like sand dikes. With their seismogenic origin, scientists now say that dating these sand dikes can help precisely identify ancient earthquakes…

Read More: The Hindu

CSIR-NIIST's eco-restoration project to revamp Padmatheertham pond

CSIR-NIIST 11th October, 2025

The centuries-old Padmatheertham pond, adjacent to the Sree Padmanabhaswamy temple, that has been facing numerous woes including indiscriminate algal bloom, fish death and foul odour, is set to get a new lease of life. The revival comes through an eco-restoration project proposed by the CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST).

The institute will implement a nature-based treatment system using floating wetlands and ex-situ purification units to restore water quality and ecological balance.

According to CSIR-NIIST director C Aandharamakrishnan, the project also involves continuous monitoring for over a year and it is expected to become a model that can be replicated for the conservation of other urban water bodies as well.

During the preliminary analysis, scientists at CSIR-NIIST found numerous external infiltration into the pond that had caused excessive algal bloom in the water body…

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Scientist elected Fellow of NASI

CSIR-CDRI 11th October, 2025

Chief scientist at the CSIR-Central Drug Research Institute (CSIR-CDRI), R. Ravishankar, has been elected a Fellow of the National Academy of Sciences, India (NASI). This honour comes close on the heels of his recent election as a Fellow of the Indian National Science Academy (INSA), New Delhi, last month. Established in 1930 in Prayagraj, NASI is the oldest science academy in India, dedicated to advancing scientific knowledge and recognising excellence in research. "Ravishankar's election to this fellowship is a testament to his significant contributions in the fields of Biochemistry and Structural Biology,"said CDRI …

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CBRI-Roorkee develops solar AC-cum-water heater for high-altitude regions

CSIR-CBRI 12th October, 2025

The unique solar air conditioner and water heater, developed by the Central Building Research Institute (CBRI) in Roorkee, especially for high-altitude regions, has now been transferred to a Pune-based company for large-scale deployment. Principal scientist Dr Chandan Swaroop Meena, who led the project, said the affordable and sustainable system combines heating and cooling functions while achieving up to 70% energy savings. Earlier this year, the institute installed one system in Kalpa, Himachal Pradesh, and another in Leh, with both functioning efficiently, officials said.

"Priced at around Rs 75,000 — about 40% less than comparable technologies — it has performed successfully under extreme conditions in Kalpa and Leh. The innovation supports India's clean energy goals through a balance of affordability, efficiency, and resilience," Dr Meena told TOI. Officials said the solar water heating systems currently available in the market are not effective in high-altitude areas due to extreme weather conditions. These regions mainly rely on gas- or fossil fuel-based water heaters, which consume significant amounts of power. In contrast, the system developed by the institute operates primarily on solar energy and has been designed in a hybrid mode to run on fuel when required…

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CSIR- SERC develops technology to reduce construction time; demonstrates indigenous Threaded End Anchor system

CSIR-SERC 12th October, 2025

In a major step towards reducing construction time, the CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, has developed and demonstrated an indigenous Threaded End Anchor system for Indian reinforced steel bars conforming to IS 1786:2008, named Head-T. Instead of manually bending the end of the bars at the joints of the columns and beams, the Head-T anchors can be fixed on the ends. The ends will have threads that can be screwed into the anchors.

This anchor system addresses one of the long – time challenges in reinforced concrete construction, which is reinforcement congestion, and the resultant need for lengthy anchorage requirements. This, particularly in seismic and heavily-loaded structural regions as beam-column joints, are the most vulnerable locations to dissipate seismic energy.

"We have developed this technology after extensive laboratory tests and full-scale experimental investigations. Tension tests on individual rebars and reverse cyclic loading tests on full-scale beam-column joints too were carried out.…

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CSIR-CEERI में 13 अक्टूबर से विज्ञान संगोष्ठी:माइक्रोवेव, मिलीमीटर-वेव टेक्नोलॉजी पर चर्चा होगी

CSIR-CEERI 12th October, 2025

सीएसआईआर-केंद्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान (सीरी), पिलानी में 13 अक्टूबर से तीन दिवसीय वैज्ञानिक संगोष्ठी का आयोजन किया जा रहा है। ये संगोष्ठी 'माइक्रोवेव, मिलीमीटर वेव एंड बियॉण्ड टेक्नोलॉजीज़ फॉर कनेक्टेड फ्यूचर (μmTCF-2025)' विषय पर केंद्रित है।

ये आयोजन माइक्रोवेव, मिलीमीटर-वेव और उससे आगे की उन्नत तकनीकों पर केंद्रित है। इसका उद्देश्य वैज्ञानिकों, उद्योग विशेषज्ञों, शिक्षाविदों, शोधार्थियों और पेशेवरों को एक साझा मंच प्रदान करना है।

संगोष्ठी में ज्ञान का आदान-प्रदान, नवीनतम शोध उपलब्धियों की साझेदारी, तकनीकी प्रवृत्तियों का पूर्वानुमान और भविष्य की दिशा में नई संभावनाओं पर चर्चा की जाएगी। इसका मुख्य फोकस वायरलेस इन्फ्रास्ट्रक्चर, 5G/6G नेटवर्क, रडार सिस्टम, ऑटोमोटिव इलेक्ट्रॉनिक्स तथा भविष्य के संवेदन और इमेजिंग सिस्टम जैसे क्षेत्रों में नवाचार को गति देने वाली अत्याधुनिक तकनीकों पर रहेगा...

Read More: Janmanas Shekhawati

खेती में इलेक्ट्रिक तूफान: 4 घंटे चार्ज में 5 घंटे चलेगा ट्रैक्टर, डीजल की झंझट खत्म, जानें कीमत और फीचर्स

खेती में अब तकनीकी क्रांति का नया अध्याय शुरू होने जा रहा है। डीजल की बढ़ती कीमतों और ट्रैक्टर के भारी रखरखाव से परेशान किसानों के लिए वैज्ञानिकों ने राहत भरी सौगात दी है। CSIR (काउंसिल ऑफ साइंटिफिक एंड इंडस्ट्रियल रिसर्च) ने ऐसा इलेक्ट्रिक ट्रैक्टर (E-Tractor) तैयार किया है, जो न सिर्फ सस्ता है बल्कि पर्यावरण के लिए भी अनुकूल है। यह 26 हॉर्सपावर (HP) की ताकत वाला ई-ट्रैक्टर मात्र 4 घंटे की चार्जिंग में 5 घंटे तक खेतों में लगातार काम कर सकता है। खास बात यह है कि महिलाएं भी इसे बड़ी आसानी से चला सकती हैं।

5 घंटे का काम, सिर्फ ₹200 का खर्च

CSIR के मुख्य वैज्ञानिक डॉ. प्रदीप राजन ने बताया कि यह ई-ट्रैक्टर किसानों के लिए बेहद किफायती साबित होगा। एक बार फुल चार्ज करने में केवल 18 से 20 यूनिट बिजली लगती है, जिससे कुल खर्च करीब ₹200 के आसपास आता है। जबकि डीजल ट्रैक्टर 5 घंटे में लगभग 7–8 लीटर डीजल जला देता है, जिसकी कीमत ₹700–₹800 तक पहुंचती है। इस तरह किसानों को करीब 64% तक की सीधी बचत होगी। डॉ. राजन के मुताबिक, यह ट्रैक्टर आवाज रहित, कंपन रहित और संचालन में बेहद आसान है। इसे पुरुष और महिलाएं दोनों चला सकते हैं। खेतों के काम में थकान भी कम होती है और रखरखाव लगभग नगण्य है...

Read More: Kelopravah

Through generics, India emerging as 'pharmacy of the world': Pharmacologist

CSIR-CDRI 13th October, 2025

India is emerging as the pharmacy of the world through generics, said former director of Central Drug Research Institute (CDRI), Lucknow, Dr Madhu Dikshit. Speaking on the topic 'From ancient wisdom to modern science: The journey of drug discovery in India', she said that with the help of generics, India has become an innovation and manufacturing giant in the pharmacy sector. Dikshit said the generic era (1947-1990s) significantly contributed to drug production through cheaper technologies. The Patent Act 1970 helped in creating affordable technologies and synthesising out-of-patent molecules in medicines, which were accessible to any income class.

She said drug discovery and development become easier in govt labs, as they are cheaper, efficacious, and safer compared to private companies, which spend millions of dollars on drug development right from discovery to testing in clinical trials and marketing. "Govt labs don't have to spend money marketing the drugs they developed, and people are also not misunderstood on when and where the drug was discovered. The drugs are known by the common trade name and are effective to use," Dikshit said…

Read More: Times of India

Global experts to gather in Hyderabad for FSOSCB–2025 at IICT

CSIR-IICT 13th October, 2025

Hyderabad-based Indian Institute of Chemical Technology (IICT) is organising a two-day International Symposium on 'Frontiers in Sustainable Organic Synthesis and Chemical Biology (FSOSCB–2025)' from October 13–14, 2025, at its campus in Tarnaka, Hyderabad.

The FSOSCB–2025 symposium will serve as an international platform for scientists, academicians, and industry professionals to discuss recent advances and emerging trends in sustainable synthesis and chemical biology.

The event will feature lectures by eminent speakers from Germany, USA, Singapore and France, who are pioneers in their respective fields…

Read More: Telangana Today

YCCE electrical engineering students gain valuable exposure from NEERI visit

CSIR-NEERI 13th October, 2025

The students of department of electrical engineering, Yeshwantrao Chavan College of Engineering (YCCE), visited National Environmental Engineering Research Institute (CSIRNeeri), as part of their industrial/educational exposure programme recently.

The visit aimed to provide the students with practical insights into environmental engineering applications, sustainable technologies, and ongoing research in renewable energy and environmental protection. The students had the opportunity to interact with scientists and experts at Neeri and gained valuable knowledge about environmental impact assessment, energy management, and the role of engineering in sustainable development.

The visit was organised under the guidance of Prof PS Patil, faculty coordinator, and was led by Dr SP Gawande, HoD EE,. Faculty form the department Dr N Padole, Prof SL Tiwari and Prof PB Joshi accompanied the students during the visit…

Read More: Times of India

U-turn on Mathura Road not feasible: CRRI tells police

CSIR-CRRI 14th October, 2025

The Central Road Research Institute (CRRI) has told Delhi Police that it was not feasible to create a U-turn near Gate F of the Supreme Court, noting that it would worsen traffic congestion on Mathura road. Police had sought CRRI's opinion after lawyers approached them on the issue.

A traffic police officer aware of the developments said, "We received a letter from the advocates at the Supreme Court after which we wrote to CRRI to check its feasibility. We have received a response and we are examining it."

In a letter dated September 13, addressed to the CRRI director, police said that they have received communication through the assistant registrar at the Supreme Court asking about the feasibility of creating a U-turn near "Gate F Mathura Road, main building campus, Supreme Court of India" to "avoid congestion on Bhagwan Das Road and Mathura Road"…

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