



सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

CSIR in Media

News Bulletin
15 to 31 August 2025



CSIR-NPL Hosts National Conference MAPIKI 2025 on Advancing Metrology for India's Growth

CSIR-NPL

14th August, 2025

The CSIR–National Physical Laboratory (CSIR-NPL) in New Delhi concluded its two-day National Conference, MAPIKI 2025, held on August 11–12 under the theme “Measurements for All Times, for All People.” The conference brought together scientists, industry representatives, and policymakers to discuss innovations, challenges, and opportunities in the field of metrology, with the aim of strengthening India’s measurement traceability chain and supporting the nation’s economic and social progress.



The event featured the release of a flyer detailing the calibration and testing activities of CSIR-NPL’s Physico-Mechanical Metrology Division. Chief Guest Dr. Nagahanumaiah, Director of the Central Manufacturing Technology Institute (CMTI), Bengaluru, and Guest of Honour Dr. S. D. Attari, Member (Technical) of the Commission for Air ...

Read More: [Impressive Times](#)

CSIR-IIIM Jammu inks MoU with Mehta Ayurvedic Sansthan Indore

CSIR-IIIM

15th August, 2025

In a noteworthy stride towards the amalgamation of traditional Ayurvedic medicine with modern scientific research, the CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu today entered into a Memorandum of Understanding (MoU) with Indore based Mehta Ayurvedic Sansthan(MAS).

This partnership, aims to foster research and development collaborations, including sponsored projects, analytical testing, technology transfers, and scientific evaluation of Ayurvedic products and formulations. The MoU ceremony was held in the IIIM campus, in the presence of Dr Zabeer Ahmed, Director of CSIR-IIIM, Jammu and Gaurav Mehta, Director of Mehta Ayurvedic Sansthan, who formally signed the agreement. The partnership seeks to integrate traditional Ayurvedic wisdom with cutting-edge scientific validation, leveraging CSIR-IIIM's expertise in natural product discovery, preclinical pharmacology, and agro-technologies for medicinal plants.

Speaking on the occasion, Dr Zabeer Ahmed highlighted the objective of this collaboration, emphasizing its potential to scientifically evaluate AYUSH-based products ...

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Nemom block panchayat eyes technology tie-up to remove water hyacinth from Vellayani Lake

CSIR-NIIST

16th August, 2025

The Nemom block panchayat is eyeing a tie-up with the CSIR-National Institute for Interdisciplinary Science and Technology (NIIST) for removing the invasive water hyacinth from the Vellayani freshwater lake in Thiruvananthapuram district.

The proposal involves extracting fibres from water hyacinth for the manufacture of value-added products, which would serve as a means of livelihood for the economically-weaker sections in the locality.

The idea was mooted at the Block Innovation Cluster meeting held at the Centre for Human Resource Development, a regional centre of the Kerala Institute of Local Administration at Kottarakara, earlier this week. Though water hyacinth is a weed, the fibre extracted from it can be very useful as a natural fibre. At the meeting, the Nemom block panchayat was entrusted with the task of coordinating the activity with technical support ...

Read More: [The hindu](#)

Remembering Col. Ram Nath Chopra

CSIR-IIIM

17th August, 2025

The Jammu and Kashmir through ages has been a birthplace of many notable personalities who excelled in diverse fields like Politics, Art & Culture, Music, Sports and Education. Col. Ram Nath Chopra a distinguished Scientist was one among them, born, brought up and breathed his last in Jammu and Kashmir State. Col Sir R. N. Chopra, born on August 17, 1882, in Gujranwala, Punjab, stood as a towering figure whose contributions to Indian medicine and pharmacology have earned him immortal recognition as the “Father of Indian Pharmacology.”



Today, on his 143rd Birth Anniversary, our rich tribute to this great Scientist whose research work provided a global relevance to Indian Traditional System of medicine. Much before Indian Independence, in 1941, he founded the first Drug Research Laboratory (DRL) at Jammu for exploring the vast untapped medicinal plant wealth of Jammu and Kashmir as also across the country. The DRL, Jammu was later expanded and named as Regional Research Laboratory (RRL) which was taken over by Council of Scientific and Industrial Research ...

Read More: [Daily Excelsior](#)

Ministry of New and Renewable Energy Secretary Shri Santosh Kumar Sarangi and Director General, CSIR and Secretary DSIR Dr. N. Kalaiselvi visits CSIR-SERC and CMC

CSIR-SERC, CECRI, CLRI, CMC

18th August, 2025

The Secretary of Ministry of New and Renewable Energy (MNRE) Shri Santosh Kumar Sarangi along with Director General, Council of Scientific & Industrial Research (CSIR) and Secretary, DSIR, Dr. (Mrs.) N. Kalaiselvi, visited the CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, and the CSIR-Central Electrochemical Research Institute (CSIR-CECRI) Chennai Unit at the CSIR Madras Complex on 18 August 2025.



The visit was also attended by Dr. K.J. Sreeram, Director, CSIR-Central Leather Research Institute (CSIR-CLRI); Dr. K. Ramesha, Director, CSIR-CECRI; and Dr. Rajesh Katyal, Director General, National Institute of Wind Energy, Chennai.

As part of the programme, Dr. N. Anandavalli, Director, CSIR-SERC, delivered a presentation highlighting the achievements and proposed R&D initiatives of CSIR-SERC. Dr. M. Keerthana, Principal Scientist, CSIR-SERC, provided an overview of the centre's multidisciplinary R&D activities in renewable energy. The presentation covered advancements in wind energy (offshore and onshore), solar energy (land-based, floating in inland water bodies and floating offshore solutions) and hydroelectric energy. Ongoing research on carbon ...

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ONGC Energy Centre Trust and Engineers India Limited Sign Agreement for Helium Recovery Demonstration Plant

CSIR-IIP

19th August, 2025



ONGC Energy Centre Trust has partnered with Engineers India Limited to implement a Helium Recovery Demonstration Plant at ONGC's Kuthalam Gas Collection Station in Tamil Nadu. The project, based on a technology package developed by CSIR-IIP, aims to recover Grade-A Helium of 99.995% purity from natural gas.

The project, valued at ₹39.42 crore, is scheduled for ...

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CFTRI invites applications for specialised Barista training

CSIR-CFTRI

19th August, 2025

BioNEST at CSIR- Central Food Technological Research Institute (CFTRI), in collaboration with the Coffee Quality Division, Coffee Board of India, will organise a five-day specialised Barista training programme aimed at promoting excellence in coffee brewing and service. The event titled “A Bean to Brew Journey — Master the Basics of Brewing” will be held from Sept.1 to 5 at CFTRI.

This hands-on, non-residential programme is open to individuals who have completed their 12th std. and wish to gain professional coffee-making expertise. 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 ...

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Lecture on 'food as cultural identity' delivered

CSIR-NIScPR

20th August, 2025

New Delhi-based CSIR-NIScPR principal scientist Dr Charu Lata delivered a lecture on 'Food as cultural identity' during the first lecture session of an online international lecture series, themed 'Food connects us', jointly organized by Dera Natung Government College (DNGC), Itanagar and Kolkata (WB)-based Mrinalini Datta Mahavidyapith (MDM) on Tuesday.

Lata emphasized the important role of food in shaping cultural identity, promoting diplomacy, and supporting sustainable development.

She spoke on several key themes, the value of Ayurveda and indigenous food knowledge, combating hunger through germination and fermentation, community and climate cuisine linkages, challenges posed by fast food and loss of traditional knowledge, and the importance of reviving ethnic food traditions.

She also spoke about government initiatives, millet promotion, documentation of traditional knowledge, and the CSIR and SWASTIK programmes ...

Read More: [Arunachal Times](#)

DAV Police Public School, Panchkula students visit CSIO

CSIR-CSIO

20th August, 2025



DAV Police Public School, Panchkula organised an educational visit to the Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, for the science stream students of classes XI and XII. The visit was aimed at providing students with first-hand exposure to scientific research, advanced instrumentation, and career opportunities in technical and scientific domains. During the visit, students explored various departments and laboratories within the institute. They witnessed the functioning of sophisticated machinery, such as drilling machines, shapers, and die & mould making equipment, and gained a deeper understanding of advanced laboratory techniques like chromatography and spectrometry ...

Read More: [The Tribune](#)

CSIR-CFTRI ने गगनयात्रियों के लिए विशेष मेनू तैयार किया है

CSIR-CFTRI

20th August, 2025

गगनयान मिशन के प्रक्षेपण में एक वर्ष से अधिक समय शेष है, ऐसे में चयनित गगनयात्रियों का प्रशिक्षण शुरू हो गया है और अंतरिक्ष यान की तैयारी में तेज़ी आ गई है। गगनयात्री अपने साथ क्या भोजन ले जाएंगे, इसकी भी योजना बनाई जा रही है। आस-पास के सबसे अच्छे रेस्टोरेंट वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद - केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान (सीएसआईआर-सीएफटीआरआई) के देहरादून और मैसूर स्थित अधिकारी 2027 में प्रक्षेपण के लिए निर्धारित इस मिशन के लिए चुने गए चार अंतरिक्ष यात्रियों के लिए विशेष मेनू पर काम कर रहे हैं।

भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) के साथ कम जगह में पौष्टिक और पौष्टिक भोजन तैयार करने के लिए चर्चा चल रही है। 2024 में, गगनयान मिशन के लिए ग्रुप कैप्टन प्रशांत बालकृष्णन नायर, शुभांशु शुक्ला, अंगद प्रताप और अजीत कृष्णन के नामों की घोषणा की गई। शुक्ला और नायर 15 जुलाई को संपन्न हुए एक्सिओम-4 अंतरिक्ष मिशन का भी हिस्सा थे। शुक्ला मिशन के पायलट थे और अंतरिक्ष में 20 दिन बिताने वाले पहले भारतीय भी थे, जिनमें से 18 दिन उन्होंने अंतर्राष्ट्रीय अंतरिक्ष स्टेशन पर बिताए थे। सीएसआईआर-सीएफटीआरआई के एक अधिकारी ने कहा, "हमारे सामने सबसे बड़ी चुनौती वैसी ही है जैसी हर भारतीय को झेलनी पड़ती है, चाहे वह कितना भी प्रशिक्षित क्यों न हो ...

Read More: [Janta Serishta](#)

Revolutionizing India's Roads: Graphene-Enhanced Pavements Signal a Sustainable Future

CSIR-CRRI

21st August, 2025

TACC Limited has teamed up with the Central Road Research Institute (CRRI), a part of the Council of Scientific and Industrial Research (CSIR), to bring a pioneering change in India's road infrastructure. The two institutions have signed a Memorandum of Agreement to utilize TACC's next-generation graphene-based additives in road construction.

This collaboration aims to incorporate graphene's exceptional properties into both rigid and flexible pavements, offering stronger and more durable roads while minimizing carbon emissions. The new technology supports India's Net Zero vision ...

Read More: [Devdiscourse](#)

Jigyasa ATL workshop (Student-Scientist Connect) as part of Atal Tinkering Lab Adoption and Mentoring in Thenkasi District

CSIR-SERC, CSIR-CMC

21st August, 2025

CSIR-Structural Engineering Research Centre (CSIR-SERC) Chennai, a constituent laboratory of CSIR, and CSIR Chennai Campus (CMC) jointly organised Jigyasa ATL workshop (Student-Scientist Connect) as part of Atal Tinkering Lab Adoption and Mentoring in Thenkasi District of Tamil Nadu State during 21-22 August 2025 at the following schools:

Government Higher Secondary School, Neduvayal Achanputhur, Sundarapandia puram, Sivagurunatha puram & Kadayanallur.

"JIGYASA" is one of the major initiatives taken up by CSIR at national level, during its Platinum Jubilee Celebration Year. CSIR is widening and deepening its Scientific Social Responsibility further with the programme. The focus of this scheme is on connecting school students and scientists so as to extend student's classroom learning with well-planned research laboratory based learning. The Jigyasa programme is inspired by Prime Minister Narendra Modi's vision of a new India and Scientific Social Responsibility (SSR) of Scientific Community ...

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CSIR-SERC successfully transferred High Velocity Multi-Hit Resistant Movable Protective Booth/Shack for Security Personnel Technology to a member of Laghu Udyog Bharati (LUB)

CSIR-SERC, CSIR-CMC

21st August, 2025

CSIR-SERC (Structural Engineering Research Centre) a premier national laboratory under CSIR, has successfully transferred pioneering technology “High Velocity Multi-Hit Resistant Movable Protective Booth/Shack for Security Personnel” to M/s Kistler Morse Automation Limited, Hyderabad a member of Laghu Udyog Bharati (LUB).



The technology was transferred to M/s Kistler Morse Automation Limited, Hyderabad at CSIR-SERC, Chennai on 21st August 2025. The technology transfer agreement of the Security Booth was signed by Dr. N. Anandavalli, Director, CSIR-SERC, with Capt.KK.Sharma, Executive Vice President from M/s Kistler Morse Automation Limited, Hyderabad. The inventor of the technology Dr. Amar Prakash, Senior Principal Scientist, Dr K.Sathish Kumar, Chief Scientist and Head, BKMD, Shri V.Ramesh Kumar, Principal Scientist, Dr.J.Venkatesan, Senior Scientist, Smt Chitra Sankaran, Principal Technical Officer and Smt R.Soniya, Senior Technical Officer were present during this event.

Security Booth/Shack

CSIR-SERC has developed a modular security booth/shack for military and security personnel, constructed using steel fiber-reinforced cementitious ...

Read More: [PIB](#)

Ecofix technology for pothole repair on city roads

CSIR-CRRI

22nd August, 2025

The Bruhat Bengaluru Mahanagara Palike (BBMP) has announced that it will soon introduce Ecofix technology for road repairs in the city, in a bid to address the long-standing problem of potholes that has plagued commuters for years. Potholes on Bengaluru's roads have been a recurring issue, leading to inconvenience, traffic congestion and safety hazards for motorists. Until now, BBMP has relied on cold mix & hot mix methods to fill potholes, but these solutions have often proved temporary & ineffective, especially during heavy rains. Recognising the urgent need for a sustainable and durable approach, BBMP is preparing to roll out Ecofix technology, which makes use of industrial by-products such as iron and steel slag to strengthen road surfaces & ensure longer-lasting results.

According to officials, the idea was first explored in 2024 when BBMP, in collaboration with the Council of Scientific and Industrial Research – Central Road Research Institute (CSIR-CRRI) & Ramuk Global Services, carried out pilot trials of Ecofix technology in select stretches of Bengaluru.

The trials were encouraging, showing faster filling time and improved road strength. Having seen its success in other states including Gujarat, Jharkhand, Maharashtra and Arunachal Pradesh, the Corporation is now confident of implementing the technology ...

Read More: [The Hansa India](#)

Srinath Public School students visit CSIR-NML Jamshedpur for science exposure

CSIR-NML

22nd August, 2025

CSIR-National Metallurgical Laboratory (NML), Jamshedpur, organised a laboratory visit for 54 students and two teachers of Srinath Public School under the CSIR-Jigyasa Virtual Laboratory project. The visit aimed to promote scientific awareness and introduce students to research and innovation.



The day began with an inaugural programme where CSIR-NML Director, Dr. Sandip Ghosh Chowdhury, delivered a welcome address.

He highlighted the institute's contributions to technological development and pioneering research over the past 75 years. Dr. Sarmistha Sagar, Chief Scientist and HOD, IMDC, further explained the importance of CSIR-NML and its role in advancing research and development.

Dr. Animesh Jana, Senior Scientist at IMDC, elaborated on the objectives of the Jigyasa programme, emphasising its vision of fostering scientific curiosity ...

Read More: [Avenue Mail](#)

CSIR-NGRI study predicts up to 50% rise in rainfall, 2.94°C spike in Telangana; vulnerable population might increase to 59%

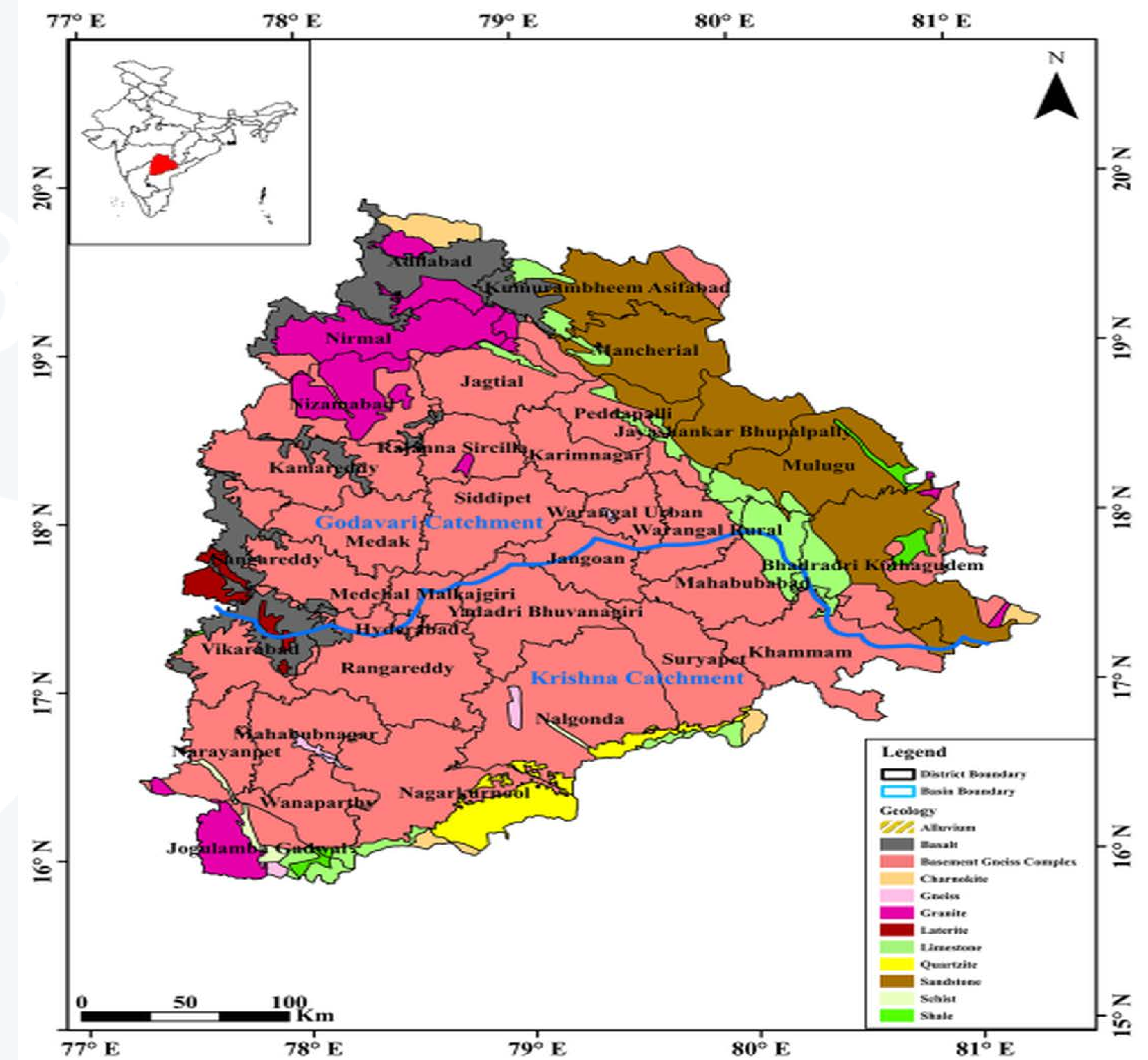
CSIR-NGRI

22nd August, 2025

Climate change is likely to lead to precipitation levels increasing by 15% to 50% and temperatures rising up to 2.94 °C, impacting water availability and crop yields in Telangana. This is expected to increase the number of vulnerable people from 28% to 45% at the start of the [21st] century, and to 59% by mid-century. The potential rise in evaporation rates and depletion of freshwater resources pose a significant threat to the future of agriculture, which is relied upon by more than half the working population for livelihood, according to a study done by CSIR-National Geophysical Research Institute (NGRI) scientists.

The study done in Krishna (6,453,850 Ha) and Godavari (7,833,432 Ha) water basins — which divide Telangana into equal parts — for the near future (2015–2045), mid future (2046–2075), and far future (2076–2100), showed rise in temperature, most pronounced ...

Read More: [The Hindu](#)



NML में फेनोम India-CSIR हेल्थ कोहोर्ट नॉलेजबेस का उद्घाटन

CSIR-NML

23rd August, 2025

नेशनल मेटलर्जिकल लेबोरेटरी (एनएमएल) जमशेदपुर ने फेनोम इंडिया-सीएसआईआर हेल्थ कोहोर्ट नॉलेजबेस के दूसरे चरण का भव्य शुभारंभ किया। यह एक अग्रणी पहल है जिसका उद्देश्य भारतीय जनसंख्या के लिए प्रेसिजन मेडिसिन और व्यक्तिगत स्वास्थ्य देखभाल को बढ़ावा देना है। इस अवसर पर 23 से 28 अगस्त तक एक बहुदिवसीय स्वास्थ्य जांच शिविर का आयोजन किया गया, जिसमें सीएसआईआर-एनएमएल के 250 से अधिक कर्मचारी, पेंशनभोगी और उनके जीवनसाथी भाग ले रहे हैं।



उद्घाटन समारोह सीएसआईआर-एनएमएल, अगरिको आवासीय परिसर में आयोजित किया गया, जिसका औपचारिक उद्घाटन डॉ. संदीप घोष चौधरी, निदेशक, सीएसआईआर-एनएमएल, जमशेदपुर द्वारा किया गया। डॉ. घोष चौधरी ने अपने उद्घाटन भाषण में सीएसआईआर हेल्थ कोहोर्ट नॉलेजबेस ...

Read More: [Uditvani](#)

CSIR-NEERI scientist gets national recognition in sustainability

CSIR-NEERI

25th August, 2025



Dr. Lal Singh, Principal Scientist at CSIR–NEERI, has been honored as one of five “Sustainability Changemakers” across India in the “TBI Sustainability Changemakers” category by The Better India Showcase 2025, supported by the M3M Foundation. Since 2018, Dr. Singh has been spearheading the restoration of fly-ash polluted land in the Vidarbha region using his innovative Eco-Rejuvenation Technology (ERT). By planting bamboo and indigenous tree species, his team has revitalized toxic, degraded land—significantly ...

Read More: [The Live Nagpur](#)

Cells can revive from brink of death, find CSIR-CCMB scientists

CSIR-CCMB

26th August, 2025

A new discovery from CSIR-Centre for Cellular and Molecular Biology, Hyderabad, has brought forth a novel way to expedite tissue repair and regeneration.

A team of scientists led by Dr Santosh Chauhan show that cells have a built-in way to revive from the brink of death. The process of revival is highly programmed and mimics developmental growth, the CSIR-CCMB said in a release on Tuesday.

The scientists demonstrated that such a revival, which they called Programmed Cell Revival, sped up skin wound healing and repaired corneal burns in mice, stimulated tail regeneration in frog tadpoles, promoted nerve repair in worms, and enhanced blood stem cell production in fruit flies. The study has been published in the EMBO Journal.

This finding overturns the dogma that once a cell begins to die, its journey is irreversible. "What we see is not accidental survival of cells. Rather, we find that cells across organisms have the ability to follow a common mechanism that can reactivate their developmental, metabolic, and immune pathways to restore their full cellular function. This discovery reshapes how we think about life, death, and healing at the cellular level," Dr Chauhan said...

Read More: [Lokmattimes](#)

Tiny gold nanoparticles show promise in early detection of Parkinson's Disease

CSIR-IMTECH

26th August, 2025

Scientists at the Institute of Nano Science and Technology (INST), Mohali, have developed a nanotechnology-based tool that could enable early detection of Parkinson's Disease (PD), one of the fastest-growing neurological disorders worldwide. The research team explored how proteins behave differently in the brain during disease and focused on α -synuclein, a protein closely linked to Parkinson's. This protein, which is harmless in its normal form, tends to clump into toxic aggregates that damage brain cells. Detecting this transformation at an early stage could provide a breakthrough in diagnosis and management.

To address this, the researchers created gold nanoclusters—tiny, glowing particles a few nanometers wide—coated with naturally occurring amino acids. The modified clusters showed selective binding: proline-coated nanoclusters attached to the normal protein, while histidine-coated ones latched onto the toxic forms. This allowed the team to distinguish between healthy and harmful protein conformations.

The team carried out extensive experiments, including spectroscopy, fluorescence imaging, electron microscopy, and electrochemical methods, to confirm the effectiveness of the biosensor. Tests in human-derived neuroblastoma cells confirmed its safety and sensitivity under biological conditions. The study was led by Dr. Sharmistha Sinha, Senior Scientist at INST, with PhD scholars Harpreet Kaur and Ishani Sharma. The work also involved collaboration with Dr. Deepak Sharma and Arpit Tyagi from CSIR-IMTECH, Chandigarh...

Read More: [Ddnews](#)

Slaying the 'choker' with sword of science

CSIR-NIIST

26th August, 2025

All may seem hunky-dory and celestially beautiful at Vellayani, with its misty mornings and eco-tourism initiatives evoking considerable charm. But this picture-perfect setting exists only along its banks. Wade into the waters, and the choking of the lake becomes evident in more ways than one.

With over 50 per cent of the lake infested with invasive species, both foreign and native, the ecological impact has led to changes in groundwater quality and fish populations, as well as a decline in the visitation of migratory birds.

One of the main villains among these weeds is the water hyacinth, which has been making headlines for its invasion not just of Vellayani but most of Kerala's water sources. Scientists like Ajith Haridas, former head of CSIR-NIIST, believe this is a direct reflection of the lack of proper sewerage treatment in Kerala.

“Agriculture and the use of fertilisers are less in Kerala, it being a state with sparse agri initiatives. So, the sewerage is the culprit here, which grants nitrogen and phosphorus into the waters. The treatment facilities here are at least 50 years old. So, the waste is let into the waters, adding to its nitrogen and phosphorus content which results in blockage of light and growth of weeds like water hyacinth. It literally chokes the health of the lake ecosystem and its adjoining ecology,” says Ajith...

Read More: [Newindianexpress](https://www.newindianexpress.com)

CSIR-CCMB scientists discover novel way to expedite tissue repair and regeneration

CSIR-CCMB

27th August, 2025

CSIR-Centre for Cellular and Molecular Biology scientists have discovered a novel method to accelerate tissue repair and regeneration. This discovery opens a new frontier in cell biology, with significant implications for regenerative medicine and cancer biology.

Led by Santosh Chauhan, the scientists showed that cells have a built-in way to revive from the brink of death. The process of revival is highly programmed and mimics developmental growth. Such a revival, which they called as 'Programmed Cell Revival', sped up skin wound healing and repaired corneal burns in mice, stimulated tail regeneration in frog tadpoles, promoted nerve repair in worms, and enhanced blood stem cell production in fruit flies.

The study published in EMBO Journal has overturned the long-held belief that once a cell begins to die, its journey is irreversible.

“What we see is not accidental survival of cells. Rather, we find that cells across organisms have the ability to follow a common mechanism that can reactivate their developmental, metabolic, and immune pathways to restore their full cellular function. This discovery reshapes how we think about life, death, and healing at the cellular level,” said Dr. Chauhan...

Read More: [The Hindu](#)

Innovation, Research Must Break Silos, Partner with Industry: Dr. Jitendra Singh at CGCRI Jubilee

CSIR-CGCRI

28th August, 2025

The CSIR-Central Glass & Ceramic Research Institute (CGCRI), Kolkata, concluded its year-long Platinum Jubilee celebrations today with Union Minister of Science and Technology and Earth Sciences Dr. Jitendra Singh urging deeper collaboration between scientific institutions and industry to drive India's future technological growth.

Addressing the closing ceremony at the M.N. Saha Auditorium here, Dr. Jitendra Singh said India's research institutes must expand beyond government dependence and actively partner with industry to sustain innovation and ensure long-term impact. Citing examples such as lavender cultivation in Jammu & Kashmir and vaccine development, he underlined how industry linkages from the outset have helped convert research into viable livelihood opportunities and market-ready solutions.

“Institutional research cannot progress in silos. Wider integration with other science departments and industry partners is essential if we are to keep pace with the demands of emerging fields like semiconductors, green hydrogen, and quantum technologies,” Dr. Jitendra Singh said, adding that CGCRI's work with glass and ceramics has applications ranging from healthcare to defence and renewable energy.

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