



SEPTEMBER-NOVEMBER 2025

# NEWS ON CSIR

## R&D ACHIEVEMENTS

Volume:2





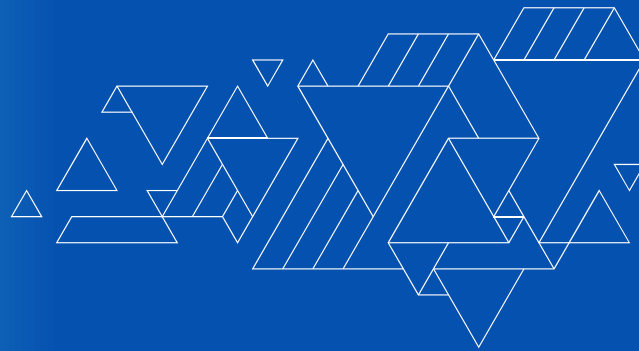
CSIR stands at the forefront of shaping India's scientific future with innovation, sustainability and inclusivity. This newsletter mirrors our mission transforming cutting-edge research into societal impact, nurturing young minds and building India's strength as a global knowledge leader.

**Dr. (Mrs.) N. Kalaiselvi, DG-CSIR & Secretary, DSIR**



At CSIR-NIScPR, we are committed to connecting Science, Technology and Innovation with society through policy research, communication and outreach. This edition highlights our initiatives from empowering grassroots innovation to fostering industry linkages, making science not just informative, but transformative for communities and the nation.

**Dr. (Mrs.) Geetha Vani Rayasam, Director, CSIR-NIScPR**



## CSIR-SERC Expanded Global Footprint through Structural Testing Partnership



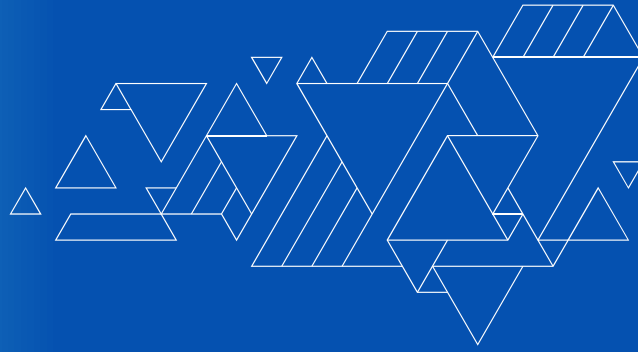
CSIR-Structural Engineering Research Centre (CSIR-SERC) signed a Memorandum of Agreement on 1 September 2025 with M/s Mudbhary and Joshi Construction Pvt. Ltd. (MJCPL), Nepal, for testing of a 132 kV D/C “DA” type suspension tower. The collaboration focuses on advanced structural analysis and testing of transmission towers, leveraging CSIR SERC’s expertise and state of the art experimental facilities. The agreement enables joint technical evaluation and validation of tower performance under critical conditions. This initiative enhances CSIR SERC’s global engagement in structural engineering and reinforces its role in supporting infrastructure reliability and technology driven solutions in the power transmission sector.



## CSIR-NIScPR Highlighted Gender Inclusive Innovation at Science Summit 2025

On 18 September 2025, CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) participated in Science Summit 2025 at the 80th United Nations General Assembly, focusing on women and girls in science and promoting gender inclusive innovation. Addressing the session, Dr. Geetha Vani Rayasam, Director, CSIR-NIScPR, emphasized the need for a supportive ecosystem and policy driven approaches to address gender inequality in STEM. The discussions aligned with key Sustainable Development Goals, highlighting the importance of inclusive research, capacity building and equitable opportunities. The session brought together global experts and policymakers, reinforcing CSIR's commitment to advancing gender equality and strengthening women's participation in science and innovation.





## CSIR-CBRI Showcased India's First 3D Printed Rural House



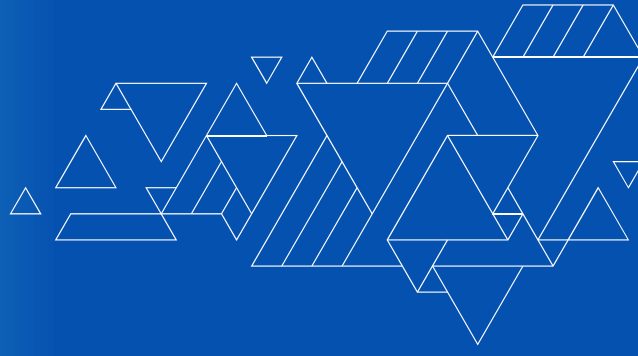
On 1 October 2025, India's first 3D concrete printed rural house under PMAY-G was inaugurated at CSIR-Central Building Research Institute (CSIR-CBRI), Roorkee, by Union Minister of State for Rural Development Chandra Sekhar Pemmasani, marking a significant step in affordable and sustainable housing innovation. The development highlights the integration of advanced construction technologies with rural housing needs, supporting resilient and cost effective solutions. The CSIR-CBRI contributions in region specific, disaster resilient housing designs and low cost technologies were also highlighted. The initiative reinforces India's commitment to technology driven rural development and aligns with national programmes aimed at ensuring safe, sustainable and inclusive housing for all.



## BioNEST Incubator Launched at Kathua to Boost Biotech Innovation

On 27 October 2025, Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology and Vice President CSIR, launched a BioNEST Incubator at the Industrial Biotech Park, Kathua, during the BioInnovation Connect @Kathua event organized by CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu, marking a significant step in strengthening the biotechnology ecosystem in North India. The incubator aims to support startups, innovators and agri entrepreneurs through advanced facilities and skill development initiatives. The facility is designed to incubate emerging ventures and promote technology driven innovation in bio based sectors, reinforcing efforts to enhance entrepreneurship, generate employment and support regional economic growth.





## CSIR and NICDC Partnered to Strengthen Innovation in Industrial Corridors



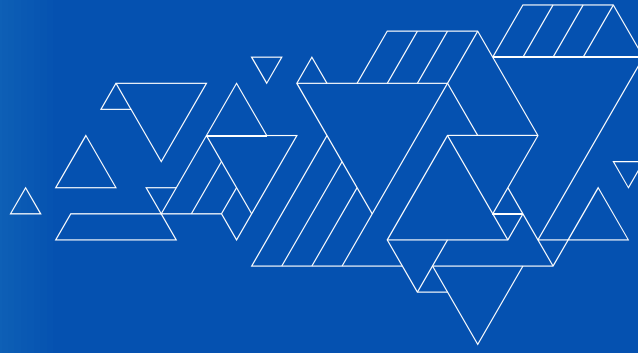
Council of Scientific and Industrial Research (CSIR) signed a Memorandum of Understanding on 12 November 2025 with the National Industrial Corridor Development Corporation (NICDC) to leverage research and innovation across India's industrial corridors. The partnership focuses on promoting innovation led industrial ecosystems through the establishment of R&D hubs, incubators and technology centres within emerging smart cities. By integrating advanced technologies across sectors such as manufacturing, biotechnology, renewable energy and infrastructure, the collaboration aims to enhance productivity, efficiency and sustainability. The initiative supports national programmes including Make in India and Aatmanirbhar Bharat, reinforcing efforts to strengthen industry research linkages and position India as a global technology and manufacturing hub.



## CSIR-IGIB Unveiled Indigenous Gene Therapy for Sickle Cell Disease

Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology and Vice President CSIR, on 19 November 2025, unveiled India's first indigenous CRISPR based gene therapy "BIRSA 101" for the treatment of sickle cell disease, developed by CSIR-Institute of Genomics and Integrative Biology (CSIR-IGIB). The breakthrough demonstrates India's capability to develop advanced genomic therapies at significantly lower costs. A technology transfer agreement with the Serum Institute of India was also formalized to enable large scale production and accessibility. The initiative marks a significant step towards addressing genetic disorders and supports India's goal of becoming a sickle cell disease free nation through affordable and innovative healthcare solutions.





## HANSA-3 (NG) India's Indigenous Trainer Aircraft



The HANSA-3 (NG), a next-generation two-seater trainer developed by CSIR-NAL, Bengaluru, is transforming pilot training in India under Atmanirbhar Bharat. With a lightweight composite airframe, low-wing configuration, bubble canopy, dual controls, and modern glass cockpit, it offers superior handling, safety, and cost-effective training. Quickly adopted by flight schools like IGRUA, it received 72 Letters of Intent by 2021. CSIR-NAL's collaboration with Pioneer Clean Amps aims to scale production for domestic and export markets. Hailed by national leaders, HANSA-3 (NG) exemplifies indigenous innovation, strengthens pilot training infrastructure, supports aerospace SMEs, and positions India as a global aviation hub.

# NEWS CAPSULES

## Dr. Geetha Vani Rayasam Assumed Charge as Director of CSIR-NIScPR



Dr. Geetha Vani Rayasam, on 9 September 2025, assumed charge as Director of CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), reinforcing the institute's role in advancing science communication and science, technology and innovation (STI) policy. Addressing researchers and staff at the joining ceremony, she emphasized the need for agile and future ready STI policy frameworks to respond to emerging challenges driven by artificial intelligence, digital platforms and evolving global dynamics. Highlighting the theme "Connecting the Unconnected," she stressed strengthening science society linkages through quality journals, digital outreach, citizen science initiatives and science art collaborations aligned with the Sustainable Development Goals, while also calling for stronger national and international partnerships.



## CSIR Startup Conclave in Lucknow Showcased Innovation Beyond Metros

On 14-15 September 2025, CSIR Startup Conclave 2025 was held in Lucknow, bringing together scientists, entrepreneurs, policymakers and industry representatives to strengthen India's innovation ecosystem. The event was addressed by Uttar Pradesh Chief Minister Yogi Adityanath and Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology and Vice President of CSIR. On the occasion, Dr. Jitendra Singh inaugurated India's first Swastik shaped Lotus Garden at CSIR-National Botanical Research Institute (CSIR-NBRI), developed as a unique facility for biodiversity conservation and floriculture research. The conclave highlighted the growing contribution of tier two and tier three cities to India's startup ecosystem and emphasized stronger linkages between research institutions, industry and entrepreneurship.



## CSIR Marked 84 Years of Scientific Excellence and National Contribution

Council of Scientific and Industrial Research (CSIR) celebrated its 84th Foundation Day on 26 September 2025 at Dr Ambedkar International Centre, New Delhi, bringing together scientists, researchers, industry representatives and students. Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology and Vice President of CSIR, graced the occasion as Chief Guest. The event highlighted CSIR's contributions to research, innovation and technology-driven socio economic development. On the occasion, the Compendium on CSIR Technology Transfer Commitments 2030 was released, reaffirming the organisation's focus on strengthening industry partnerships and accelerating technology commercialisation. The celebration showcased several landmark CSIR innovations and reinforced the organisation's commitment to advancing science, fostering innovation and supporting India's vision of Viksit Bharat 2047.



## CSIR-NEIST Launched India's First Indigenous Decaffeinated Black Tea

India's first decaffeinated black tea developed using indigenous technology by CSIR-North East Institute of Science and Technology (CSIR-NEIST), Jorhat, was launched by Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology and Vice President of CSIR, during the two day CSIR Super Model Store held at Dilli Haat, New Delhi, from 24 to 26 September 2025 as part of the 84th CSIR Day celebrations. The technology enables removal of most caffeine from tea without affecting beneficial polyphenols, addressing the growing demand for healthier caffeine free alternatives. During the event, the decaffeination technology was also transferred to two industry partners, highlighting CSIR-NEIST contribution to innovation and value addition in India's tea sector.



## CSIR-AMPRI SODAR Facility Inaugurated at IMD

On 26 September 2025, the SODAR (Sound Detection and Ranging) system facility designed and developed by CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRI), Bhopal, was inaugurated at the India Meteorological Department (IMD), New Delhi. The facility was inaugurated by Dr. M. Ravichandran, Secretary, Ministry of Earth Sciences, in the presence of Dr. Mrutyunjay Mohapatra, Director General of Meteorology, IMD and Prof. Dr. Thallada Bhaskar, Director, CSIR-AMPRI. On the occasion, a MoU was signed between CSIR-AMPRI and IMD to strengthen collaborative research on weather forecasting, climate variability and environmental studies. The initiative aims to enhance scientific data sharing and support improved meteorological research and forecasting in India.



## ESTIC 2025 Strengthened India's STI Ecosystem for Viksit Bharat 2047

From 3-5 November 2025, ESTIC 2025, organized by the Department of Science and Technology (DST) along with 12 other ministries under the guidance of the Office of the Principal Scientific Adviser, brought together policymakers, scientists and innovators to advance science, technology and innovation aligned with the vision of Viksit Bharat 2047. The conclave was inaugurated by Hon'ble PM Shri Narendra Modi, who also launched the ₹1 lakh crore Research Development and Innovation (RDI) Fund to strengthen deep tech research in emerging sectors. As part of the conclave, CSIR hosted a plenary session on Advanced Materials and Manufacturing, chaired by Dr. N. Kalaiselvi, DG, CSIR, highlighting emerging technologies shaping India's innovation ecosystem.



## CSIR-ISRO Space Meet 2025 Advanced Collaboration for Human Spaceflight Mission

On 17 November 2025, CSIR-ISRO Space Meet 2025 in Bengaluru brought together scientists, researchers, astronauts and international experts to strengthen collaboration for India's Human Spaceflight Programme. Jointly organised by CSIR and ISRO and hosted by CSIR-National Aerospace Laboratories (CSIR-NAL), the meet focused on emerging technologies, crew safety systems and research supporting future space missions. India's first astronaut Wg. Cdr. Rakesh Sharma (Retd.) and Gp. Capt. Prasanth B. Nair (ISRO astronaut and Gaganyaatri) shared valuable insights from their spaceflight and astronaut training experiences. The discussions highlighted the importance of coordinated research and institutional collaboration to advance India's human spaceflight ambitions.



## National One Health Mission Assembly 2025 Reinforced India's One Health Approach

National One Health Mission Assembly 2025, held on 20-21 November 2025 at Bharat Mandapam, New Delhi, brought together senior officials, scientists and development partners to strengthen India's integrated One Health ecosystem connecting human, animal and environmental health. Discussions focused on improving preparedness, surveillance and rapid response to emerging health challenges. Key sessions featured Dr. V. K. Paul, Member (Health), NITI Aayog; Dr. Rajiv Bahl, Secretary, Department of Health Research and Director General, ICMR; and Dr. Rajesh S. Gokhale, Secretary, Department of Biotechnology. The assembly highlighted the importance of coordinated research, innovation and multi sectoral collaboration to build a resilient health system aligned with the vision of Viksit Bharat.



## Curtain Raiser Event Set the Stage for IISF 2025

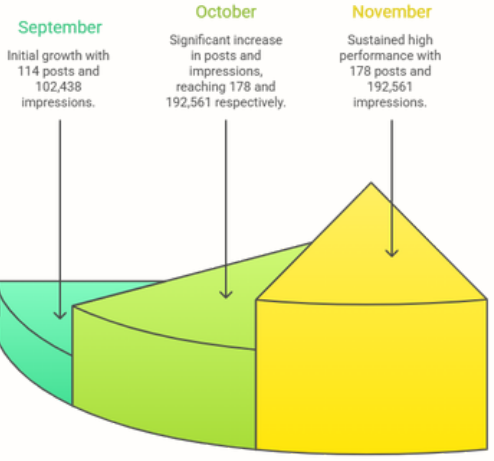
On 25 November 2025, CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) hosted the Curtain Raiser for the India International Science Festival (IISF) 2025, jointly organized with CSIR-National Physical Laboratory (CSIR-NPL). The event highlighted the vision and key thematic programmes of IISF 2025, including the Science and Technology Media Conclave and Vigyanika Science Literature Festival, coordinated by CSIR-NIScPR. On the occasion, Janjatiya Gaurav Diwas was also commemorated, recognizing the traditional knowledge systems of tribal communities. The programme brought together scientists, experts and students to discuss the role of science communication, innovation and public engagement in strengthening scientific temper and advancing India's science and technology ecosystem.



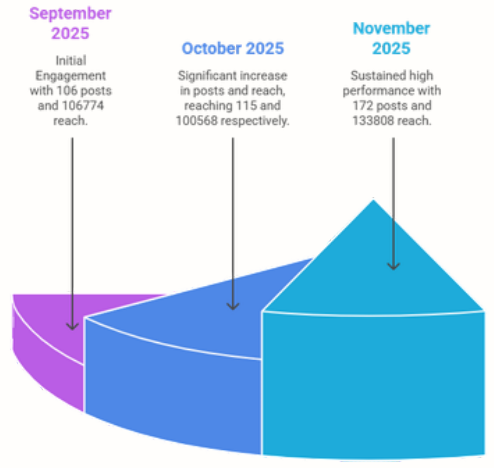
# DATA ANALYSIS



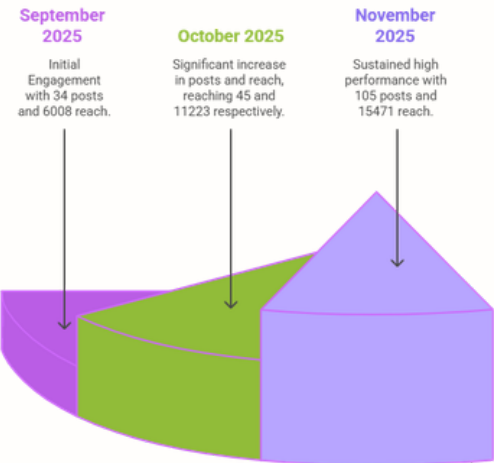
### X: Monthly Engagement Growth



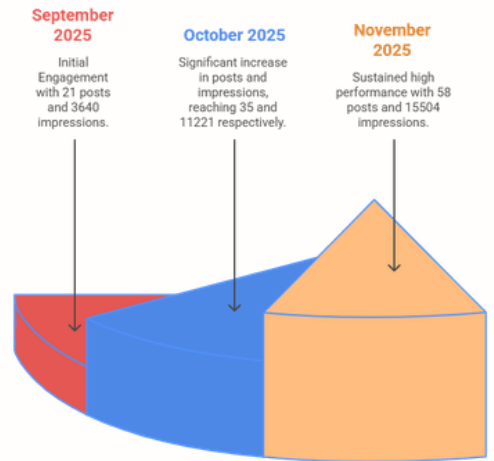
### Facebook: Monthly Engagement Growth



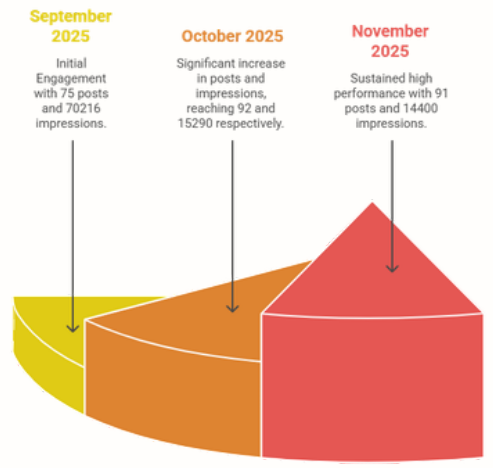
### Instagram: Monthly Engagement Growth



### Youtube: Monthly Engagement Growth



### LinkedIn: Monthly Engagement Growth



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