



## NEWS BULLETIN

## 06 TO 10 0CT08ER 2024



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



## Dr. Jitendra Singh Calls for Synergy in Science Ministries to Maximize Impact





Union Minister of State (Independent Charge) for Science and Technology, MoS (I/C) for Earth Sciences, MoS PMO, Department of Atomic Energy, Department of Space, Personnel, Public Grievances and Pensions, Dr Jitendra Singh today chaired a joint meeting of senior officials from all Science Ministries and Departments. The Minister reviewed the progress of ongoing projects and budget utilization, emphasising synergy and breaking down silos to enhance coordination and efficiency.



Dr. Jitendra Singh emphasized the need for timely and optimal use of budgetary resources, urging officials from key departments, including the Department of Science & Technology, Department of Biotechnology, ISRO, CSIR/DSIR, Ministry of Earth Sciences, Department of Space and the Department of Atomic Energy to accelerate their work on several projects announced by Prime Minister Narendra Modi.

The Minister also reviewed the status of projects announced during the Budget this year and the Budget over the last decade. He also took up follow up discussion on Anusandhan National Research Foundation (ANRF).

In line with the government's focus on transparency and citizen engagement, Dr. Jitendra Singh called on senior officials to leverage social media platforms more actively. "Our presence must be felt on social media, particularly to engage with the younger generation," the Minister stated, highlighting the importance of effective communication to showcase India's scientific



progress. The meeting is part of Dr. Jitendra Singh's ongoing efforts to create synergy among the various science departments, ensuring that resources are used efficiently and that projects are delivered on time. He also took stock of the projects highlighted in the PRAGATI platform and directed officials to fast-track their completion.

The Minister's strong focus on accountability, efficiency, and outreach underscores the government's commitment to driving India's scientific and technological progress.

Dr Jitendra Singh also shared the Mantra of sustainable ecosystem based on pooling of knowledge and resources in collaboration with the non-governmental sectors in PPP mode.

The Minister highlighted the importance of early industry linkage and multiplication of benefits for common people when initiatives like these achieve scale and volume. He also assured that all the departments under ministry will act in coordination to achieve the common objective.

The department also sought his guidance of further integration and improvement of the portal to become a single nodal joint for all scientific departments.

Dr. Jitendra Singh reviewed the present status of 'One common portal' for all kinds of scientific research.









## Innovative artificial enzymes: Dr. Amit Vernekar's Research | 091024



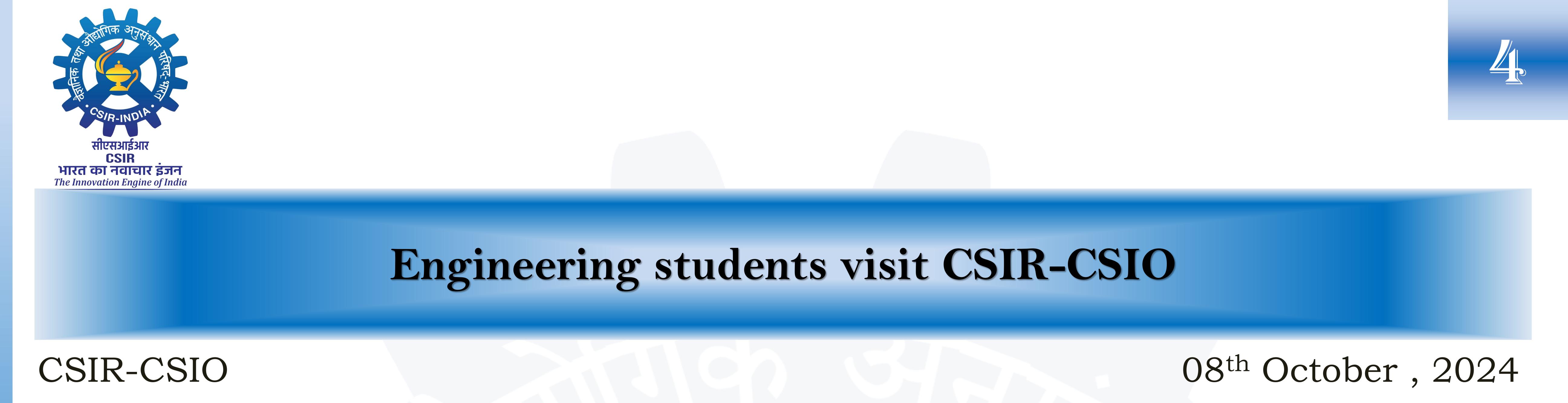


Recreating the complex & precise functions of natural enzymes through artificial means has been one of the formidable challenges in science. Enzymes, which catalyse several vital biochemical reactions in living organisms, possess unmatched specificity, efficiency & biocompatibility. Replicating these qualities in artificial enzymes has been a significant hurdle, particularly in ensuring that they function as effectively as enzymes without hindering other biochemical processes. Researchers at the CSIR-Central Leather Research Institute (CSIR-CLRI), Chennai, have made significant achievements in nanozymes (nanomaterials that function like enzymes), unveiling innovative approaches that could transform the field of artificial enzymes and the development of collagen-based biomaterials. Two studies from Scientist Dr Amit A Vernekar's research group, recently published in Chemical Science,

## highlight their pioneering work in expanding the field of artificial enzymes.



Prudentmedia



The Electrical and Electronics Engineering Department of Rayat Bahra University organized an educational visit to the Council of Scientific and Industrial Research, and Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh. Students of 2nd year of Electronic and Electrical Engineering went there to understand the recent trends and innovations in the field of Biomedical Electronics & Digital Signal & Image Processing along with the Faculty Coordinator Er Maninder Kaur.

Students gained knowledge about applications of electronics and electrical engineering in various fields and enjoyed the educational visit. Vice-Chancellor Dr Parvinder Singh and Dean, University

school of Engineering and Technology Dr Anmol Goyal, Head of the Department Er Sonal Sood, said the educational visit to CSIO provided the students with hands-on exposure to cutting-edge scientific instruments, enhancing their understanding of STEM concepts and bridging the gap between theory and real-world applications.

Such visits motivate students by showcasing the practical impact of their studies and connecting them with industry professionals, Dr Anmol Goyal added









### **CSIR-CLRI** celebrates 83rd CSIR Foundation Day





CSIR-Central Leather Research Institute celebrated the 83rd Foundation Day of Council of Scientific and Industrial Research (CSIR) at Triple Helix auditorium on 8.10.2024. Dr. K J Sreeram, Director, CSIR-CLRI in his welcome address recalled the achievements of each lab of CSIR for the development of the Nation. Dr.Swarna V Kanth, Chief Scientist introduced the Chief



Guest.

The Chief Guest, Shri Arun Roy, IAS, Secretary, Industries, Investment Promotion & Commerce Department Govt. of Tamil Nadu graced the occasion as Chief Guest and appreciated the contribution of CSIR Labs to the Country. He mentioned, in particular, the need of industries R&D setup, importance of manufacturing sector, service sector and cost cutting in footwear sector through domestic technology developments.

Shri. Abdul Wahab, Regional Chairman (South), Council for Leather Exports, India recalled

the vision of the CSIR-CLRI on the leather sector and it's all technologies which helped the industries to lead the global market.

LEATHER MARK: Dr. KJ Sreeram, launched the "CSIR-Central Leather Research Institute Introduces the Prestigious CLRI Leather Mark. He added that in a significant move that sets a new standard in the leather industry, the CSIR-Central Leather Research Institute (CSIR-CLRI), a leading authority on leather research and development, is proud to announce the launch of the CLRI Leather Mark. This initiative draws inspiration from symbols of purity





## and excellence, akin to the Hallmark for gold and the Silk Mark for silk, underscoring the institute's commitment to fostering trust and quality in leather products.

The CLRI Leather Mark designed as a voluntary certification for tanners and leather product manufacturers who are dedicated to maintaining the highest standards of quality in their offerings. By displaying the CLRI Leather Mark, businesses can transparently communicate the superior quality and authenticity of their leather goods to consumers. Each product bearing the CLRI Leather Mark will be accompanied by a QR code, providing instant access to comprehensive information about the product. This includes details about the raw material, type of leather, finish, color, design, and an image of the product, ensuring complete transparency and informed purchasing decisions for consumers.

Director of CSIR-CLRI, stated, "The introduction of the CLRI Leather Mark is a landmark moment for the leather industry. It represents our ongoing commitment to excellence, innovation, and sustainability. We believe that this mark will not only elevate the standard of leather products available in the market but also empower consumers with the knowledge to make informed choices." He also invited, Tanners and leather product manufacturers to join this prestigious program and become a part of a select group that stands for quality, transparency, and trust in the leather industry.

Shri. Naser Ahmed, M/s Naser Tanning Company Naser Bali (Gloves) Pvt. Ltd. Chennai spoke about his long association with this CSIR Lab. Revolutionary Solution Repurposes

### Leather Industry Waste into High-Quality Blended Yarns:

The leather industry, a major global contributor to export income and employment, also generates solid and liquid waste. The leather dust is one among chrome shaving dust and vegtanned buffing dust formed during the leather production process. Hence, CSIR-CLRI developed an integrated process of manufacture blended yarns from leather dust along with natural and synthetic fibers. There is no known leather-based yarn with consistently high count (evenness), high tenacity, and a smooth surface (free of hairs, neps, and slubs) that is





suitable for use in automatic looms. This technology relates to a high count (> 10'S Count), high tenacity blended yarn comprising 50 wt. % of leather dust and 50 % of at least one fiber selected from cotton, bamboo, wood pulp, polyester, prepared by a process comprising the steps of carding of the fibers to produce a lap, adding of leather dust to the formed lap and recarding to produce a sliver, spinning and drawing of the slivers to form the blended yarn, and, optionally, weaving of the blended yarn to produce the blended fabric. Apart from the evenness and high tenacity, this yarn also has a smooth surface (free of hairs, neps, and slubs), making it highly suitable for use in automatic looms. This yarn made through a chemical-free and waterless process, eliminating harmful chemical discharges as secondary pollutants. As a result, an eco-friendly yarn helps in developing value added products from waste from the leather industry

established in 1985. Since, its inception, it involved in tanning and dressing of leather, manufacture of luggage handbags, saddlery & harness, etc. Thus, industry has shown an interest to own the technology know-how so the institute is happy in signing the technology licensing agreement to transfer the know-how of Integrated process involved in manufacturing blended yarns from leather dust along with natural and synthetic fibers.

Finally, during the program, retired staff were honoured with the mementoes, and certificates and awards distributed the winners of the various events conducted for the Students, Scholars and Staff. Shri KM Sridhar, Sr. Controller of Administration proposed the vote of thanks.









## **CSIR-Indian** Institute of Petroleum, Dehradun Celebrates 83rd CSIR Foundation Day





The CSIR-Indian Institute of Petroleum (IIP) proudly commemorated the 83rd Foundation Day of the Council of Scientific and Industrial Research (CSIR) with a ceremony on October 7, 2024 that showcased its achievements in research and commitment to sustainability. Sh. Chandrasekhar N, ED and Head (R&D), BPCL graced the Event as Chief Guest while Sh. Rama Rao Marri, VP & MD



of Lummus Technology was the Guest of

Honor.

The celebration began with the ceremonial lighting of the lamp, a symbol of enlightenment and new beginnings. In his inaugural address, Director CSIR-IIP Dr. H S Bisht, highlighted the importance of developing sustainable technologies to address pressing challenges as India approaches its centenary of independence. He emphasized the need for innovative solutions that will pave the way for a sustainable future.

Chief Guest Sh. Chandrasekhar N discussed the critical necessity of collaboratively utilizing resources to meet India's net-zero targets. He stressed the vital role of partnerships between research institutions and industry in fostering innovation and driving meaningful change in sustainability practices.

Guest of Honor Sh. Rama Rao Marri elaborated on the "IIP and Lummus's potential collaboration for Bharat's Growth Initiatives," emphasizing the importance of comprehensive technologies that align with India's Swachh Bharat and Global Biofuels Alliance (GBA)





initiatives. He highlighted key areas of focus, including addressing plastic waste pollution, implementing decarbonization strategies, and advancing green technologies such as biofuel production and bio-petrochemical products.

The ceremony also honored employees with 25 years of dedicated service to CSIR, as well as those who retired between September 30, 2023, and August 31, 2024. Their contributions have significantly shaped the institute's legacy.

In line with the tradition of recognizing excellence, awards were presented for the "Swatchata Mission" initiative. The IIP's cleanliness drive serves as an inspiration to the community, encouraging active participation in maintaining cleanliness and promoting environmental awareness. Laboratory Representatives of CSIR-IIP were awarded for their commitment to maintaining clean and organized workspaces.

The evening festivities included a vibrant cultural program showcasing the talents of children of IIP staff, students, project personnel, and regular staff, who performed with enthusiasm through song and dance. The celebration also featured a prize distribution for the badminton event, further engaging the community.

The event concluded with a heartfelt vote of thanks from Dr. Hemant Madhukar Kulkarni, Chief Scientist and Head of SCDD at CSIR-IIP.

As CSIR-IIP continues to uphold CSIR's vision of becoming a world-class research organization, it remains committed to delivering high-quality scientific and sustainable solutions that address both national and global challenges.

#### Published in:

Pib





### **CSIR-NIIST** enters pact with Tata Steel to reduce carbon emission





CSIR-National Institute The for Interdisciplinary Science and Technology (CSIR-NIIST) here has entered into a technical collaboration with Tata Steel Limited (TSL) for the evaluation of ceramic sorbents that help reduce carbon emission. The project is part of the Carbon Capture, Utilisation and Storage (CCUS) mission of the CSIR, which aims to reduce carbon



emission by either storing or reusing it so that captured carbon dioxide does not enter the atmosphere.

On its Foundation Day celebrations held on Monday, NIIST exchanged a memorandum of understanding (MoU) with TATA Steel Limited, Jamshedpur. NIIST also transferred its technology for converting groundnut shells and corn husk waste into sustainable leather alternatives to Leafy Leather Pvt Ltd, a start-up from Surat, Gujarat.

Ashuthosh Sharma, president, Indian National Science Academy, was the chief guest at the function, CSIR-NIIST Director C Anandharamakrishnan presided. Atanu Ranjan Pal, Chief Technology Officer-Process, TSL, was the guest of honour.

Under the collaboration, Tata Steel Limited will help NIIST evaluate ceramic sorbents under conditions of emission from blast furnace top gas and stove waste gas, Dr Anandharamakrishnan said.

NIIST has premiered efforts to develop high quality leather alternatives from renewable and



biodegradable materials, such as agricultural by-products. "The programme is aimed at tackling two pressing global challenges - waste management and the environmental impact of leather production. The project has paved the way for transfer of technologies that promote environmental sustainability and economic growth through innovative use of agro-waste resources," he added.

Advanced processing techniques enhance the durability, texture, and aesthetic appeal of the product, making it suitable for various applications, from fashion to automotive interiors.

Committed to reducing the carbon footprint of leather production, agricultural residues like groundnut shells and corn husks, typically discarded after harvest, will now be upcycled into leather-like materials, providing an alternative to both animal-derived leather and synthetic versions, which are often petroleum-based.











### CCMB Team Using MicroRNAs to Detect Breast Cancer From a Drop of Blood





Even as MicroRNAs hit the headlines with the Nobel Prize, a city-based scientist has been working on the use of MicroRNAs in the early detection of Invasive ductal carcinoma (IDC), which is the most common form of breast cancer that accounts for 85 per cent of all breast cancer diagnoses. Using microRNAs, a CSIR-CCMB study has helped in deciphering the change of microRNA



signatures in breast cancer tissue samples.

Speaking of the relevance and significance of microRNAs, Dr Lekha Dinesh Kumar, the chief scientist at CCMB, who led the research, said, "MicroRNA was discovered by two Nobelwinning scientists in 1993 in C. elegans (kind of a roundworm). But its significance wasn't understood at that time. It was later found that microRNAs play a critical role in regulating various body functions. Eventually, researchers realised that microRNAs also control the regulation of our normal genes, acting as a "master switch" for gene expression." This holds

### tremendous potential for disease detection in future.

"MicroRNAs exist in the body under normal conditions, but their levels change during the onset of diseases and become either up-regulated or down-regulated, sometimes by as much as 10 to 20 times compared to normal levels. These changes in microRNA signatures have proven significant in my studies on breast cancer, as it can be used as biomarkers and can identify different grades, stages and types of breast cancer," Dr Lekha explained. MicroRNAs can be detected in both tissue and blood, offering potential as non-invasive diagnostic markers.





"The technology we've developed, for which we hold a patent, allows us to detect microRNAs from just a drop of blood. This test can determine not only the type of breast cancer but also its grade and stage. We are also exploring the use of microRNAs as therapeutic agents," she said.

Although microRNAs' importance has only been recognised in recent years, many researchers are actively working on them.

"Our focus is also on helping women in rural areas, who may hesitate to undergo physical examinations. A blood-based test would be a more acceptable and accessible option for early breast cancer detection," she said.

"Our patented research included 439 microRNAs associated with breast cancer. Of them, 107 qualified as potential biomarkers for the stratification of different types, grades and stages of IDC. This study has led to ten international patents. We have now licensed this research to Zeroharm Sciences for further identification of these signatures in blood to make a non invasive liquid biopsy system for the early detection of breast cancer from one drop of blood. We are working on developing a plug-and-play diagnostic machine, which could potentially replace mammograms that many cannot afford," Dr. Lekha said.

In addition to breast cancer, CCMB is also working on developing biodrugs for colon cancer. Though unrelated to microRNAs, this work involves a similar RNA interference mechanism.



Deccanchronicle





### **Floriculture blossoms in one of backward regions of Odisha**





Jujumara, located in Odisha's Sambalpur district, is a forested region that has been a relatively a late entrant into the development process. However, it has now hit the headlines for being home to one of the first Farmer Producer Organisation (FPO) in the State, dedicated exclusively to flower cultivation. Farmers in Jujumara have long been familiar with floriculture, thanks to the region's



favourable climate. However, flowers were never a primary source of income for them. In Sanatanpali, a small village in the area, only two or three farmers once grew flowers to sell in local markets a decade ago. Now, with over 10 acres dedicated to floriculture, the village is witnessing the early signs of a quiet revolution.

Sabuja Sanatanpali Farmer Producer Company Limited (FPO) has blossomed from its roots in Sanatanpali, reaching out to at least 20 villages, where 250 farmers have embraced floriculture in recent years. While the number may seem modest compared to floriculture hubs in West

Bengal, Andhra Pradesh, and Karnataka, the shift from traditional paddy farming marks a significant and promising change in mindset.

Lucknow-based CSIR-National Botanical Research Institute's intervention with scientific inputs has made farmers more hopefuls. The productivity has shown improvement in recent years.

"Farmers have traditionally focused on paddy cultivation, passing down the practice through generations. However, many remain unaware of the shifting market demands, where the need





for diverse farm-based products is on the rise. Floriculture, in particular, has emerged as a lucrative cash crop, offering quick returns. Unlike conventional crops that require farmers to wait until the end of a harvesting season for profit, flower cultivation provides a steady and more immediate income stream," said NBRI Director Ajit Kumar Shasany.

Scientific inputs play a crucial role in boosting yields, whether in floriculture or any other form of agriculture that farmers engage in, Dr. Shasany maintained. According to Manobodh Barik, Managing Director of FPO, with farmers now united under a common platform, they no longer face the challenge of excess production going unsold in the market.

"We have created a WhatsApp group where real-time updates on market trends and demand for specific flower species are shared. This initiative is motivating more farmers to get involved, as they feel more confident in managing their production and sales effectively," Mr.

Barik said, adding that such farming and marketing was unimaginable a few years ago.

To make the floriculture sustainable, the CSIR-NBRI has now introduced apiculture among farmers distributing 150 honeybee boxes and other toolkits.

"Apiculture serves as a valuable supplementary activity for rural households engaged in floriculture. Honey bees are crucial in preserving biodiversity through pollination. To support farmers in adopting bee-keeping as a livelihood, we have provided practical training and live honeybee colonies," said Soumit Kumar Behera, Senior Principal Scientist with NBRI.

Abhilash Pradhan, a horticulturist, involved with FPO said, farmers' earning has risen sharply after they took to floriculture. "Farmers typically earned a profit of ₹20,000 to ₹25,000 per acre from paddy cultivation during the Kharif season, with an additional ₹20,000 during the Rabi season, bringing the total to around ₹40,000 per acre. However, after they shift to floriculture, profits are estimated to comfortably exceed ₹1 lakh per acre."

#### Published in:

The Hindu





### **Tableaux of Indian railways, CFTRI to debut this procession**





This year's Dasara procession, which will be held on Saturday, will tell the story of several milestones our state and country have achieved in the recent past. From the Vande Bharat Express to the contribution of the city-based CFTRI, and the world of the late Poornachandra Tejaswi, a legendary Kannada writer, the procession will feature 46 tableaux. The tableau of Chamarajanagar district will depict the lifestyle of Soliga tribal families.



The Indian Railways tableau tells the story of the evolution of Indian Railways from wooden coaches to modern Vande Bharat coaches. "Our tableau will tell the story of how we evolved over the years from wooden coaches to ICF coaches, LHB coaches, and the Vande Bharat Express," said Bhesh Dutt, senior divisional mechanical engineer, SWR, Mysuru. The tableau will also feature several major railway stations, including the Mysuru station.

The CFTRI tableau will be another attraction. It will highlight the contribution of the institute to society and the country. It will also showcase various technologies developed by the institute and how they are bringing changes to society. According to Shriranjith, working president of the tableaux sub-committee, tableaux from Indian Railways and CFTRI are participating in this procession for the first time.

Other major tableaux include world heritage sites Beluru and Halebeedu, Nandi Betta, the stone fort of Chitradurga, ISRO Gaganyaan, Ranganathittu Bird Sanctuary, etc. Currently, these tableaux are being prepared at the APMC yard in Bandipalya. The sub-committee and





## the district administration have selected new designs and themes this year to make the procession more attractive.

Sand trucks are banned from being used to ferry these tableaux in the procession. Strict conditions, such as no smoking or drinking for drivers and a fitness certificate from the RTO, have been made compulsory for these trucks.

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Times of India





### **Plan to make all roads in Andhra Pradesh pothole-free, says R&B Minister**





The government is planning to make all roads in the State pothole-free and has received proposals worth ₹290 crore for repairing 1,393 damaged roads, covering 7,071 kilometres, Roads and Buildings (R&B) Minister B.C. Janardhan Reddy has said.

Participating virtually as the chief guest at a workshop held at the SRM University-A.P. on October 7, Monday, the Minister said with the latest technology and technical support from the varsity, a complete restoration of the road network would be possible.

The workshop was organised by the varsity in association with the Roads and Buildings (R&B) department of the State government and the Council of Scientific and Industrial Research-Central Road Research Institute (CSIR-CRRI) to address the critical challenges associated with the maintenance and rehabilitation of the State roads,. Principal Secretary, (R&B), Kantilal Dande, and CSIR-CRRI Director Manoranjan Parida, researchers, professors and government officials participated in the one-day workshop.

"A road is the index of a developed society. To tackle the key factors leading to road damage and rehabilitation, we require technical support and cutting-edge research from reputed

## institutes like CSIR-CRRI and new-age universities like SRM University-AP," Mr. Kantilal Dande said.

Delivering a keynote session, Mr. Manoranjan Parida explained the role of technology in road development. "A methodical approach to Road Asset Management is pivotal to ensure proper maintenance and rehabilitation. Sustainable technologies such as recycling technology can be utilised for rehabilitation projects, which will be cost-effective and economical," he said.

The workshop, which facilitated a discussion among policymakers, academicians, researchers





and young minds, to discuss the pressing challenges faced in the maintenance and rehabilitation of roads and exploring cost-effective and sustainable methods to achieve the same, had sessions on subjects including present condition of State roads and typical M&R practices, sustainable rehabilitation programmes for State roads, geotechnical failures and remedial measures for canal roads.

Speakers included R&B Department Engineer-in-chief Nayeemulla, senior scientist from CRRI, New Delhi, G. Bharath, and chief scientist P.S. Prasad from the CRRI, and professors from the varsity.

Prof. Uma Maheswar, the organising secretary from the varsity, said maintenance and rehabilitation of roads are key for any kind of success and development. "In the next 5 to 10 years, the varsity along with the government and industry will foster an ecosystem to

### rehabilitate the damaged roads through sustainable methods," he said.









## **CRRI to help Noida relocate ad poles to make expressway safer?**





Noida Authority is planning to engage Regional Centre for Urban and Environment Studies (RCUES) – an agency under the Union ministry of housing and urban affairs – to carry out a survey on ways to make Noida Expressway safer for commuters.Sources said the Authority could also collaborate with Central Road Research Institute (CRRI) for this road safety initiative. A final approval from the Authority CEO is awaited on this.

As part of the project, the Authority has identified multiple structures that need to be shifted out of the crash barrier area to prevent deadly accidents. According to an estimate, the expressway has 12 advertisement and 8 traffic camera poles, 21 signboards, 13 foot

overbridges, and around 20 public toilets off it. These structures will either be relocated to the service lane or redesigned to enhance road safety.

The need to enhance road safety along the expressway was felt all the more following an accident on Aug 14, when three students died after their car rammed one such pole before hitting the crash barrier. Two of the youths who died were the sons of a junior engineer at the Authority.

The accident exposed the dangers posed by structures before the crash barrier and underscored the need for immediate action.

The Authority conducted a survey and identified poles and other such structures that posed a risk of causing fatal accidents. It was decided that the poles should be relocated and other structures redesigned.

However, the relocation process will be easier said than done. According to sources, CRRI could be engaged to guide the execution of this plan after identifying the root causes of





## accidents on the expressway. It will also be asked for recommendations to eliminate safety hazards, the sources said.

Sanjay Khatri, additional CEO at the Authority, said RCUES would soon conduct a safety survey of the 25km expressway, which is a critical route connecting Delhi with Noida and Greater Noida and the Yamuna Expressway to Agra.

Given that thousands of vehicles use this expressway daily, the safety project is vital for safeguarding commuters and minimising accident risks.





Times of India





## CSIR- CIMFR ने वन हेल्थ" पर जागरूकता कार्यक्रम आयोजित कर छात्रों को किया प्रेरित

CSIR-CIMFR

06<sup>th</sup> October, 2024

Dhanbad के सीएसआईआर-सेंट्रल इंस्टीट्यूट ऑफ माइनिंग एंड फ्यूल रिसर्च (सीएसआईआर-सीआईएमएफआर) ने सोमवार को पीएम श्री स्कूल जवाहर नवोदय विद्यालय, बेंनागोरिया, निरसा, धनबाद में "वन हेल्थ" पर एक जागरूकता सत्र आयोजित किया। बता दें कि छात्रों को मानव, पशु और पर्यावरणीय स्वास्थ्य के बीच की जटिल कड़ी के बारे में शिक्षित करने के उद्देश्य से सीएसआईआर-जिज्ञासा पहल के तहत यह कार्यक्रम आयोजित किंया गया।

स्वास्थ्य के प्रति समग्र दृष्टिकोण अपनाने से सभी क्षेत्रों में संतुलन को बढ़ावा इस अभियान के माध्यम से मानव, पशु और पारिस्थितिकी तंत्र के स्वांस्थ्य को आपस में जुड़े होने के महत्व को उजागर किया गया। सत्र में यह बताया गया कि स्वास्थ्य के प्रति समग्र दृष्टिकोण अपनाने से सभी क्षेत्रों में

संतुलन और कल्याण को कैसे बढ़ावा दिया जा सकता है। जिज्ञासा कार्यक्रम का एक अवलोकन भी प्रस्तत किया गया, जिसमें छात्रों के बीच जागरूकता बढ़ाने में इसकी भूमिका पर जोर दिया गया।

ज़नोटिक, एंटीमाइक्रोबियल सहित कई विषयों पर चर्चा सीएसआईआर-सीआईएमएफआर के विशेषज्ञों ने छात्रों के साथ कई महत्वपूर्ण विषयों पर चर्चा की, जिनमें ज़ूनोटिक बीमारियाँ, एंटीमाइक्रोबियल रेजिस्टेंस (एएमआर), महामारियों का प्रभाव, खाद्य मिलावट और पोषण शामिल थे। सत्र में एक स्वस्थ और रोग मुक्त जीवन जीने के व्यावहारिक तरीकों पर भी जोर दिया गया।

## इस कार्यक्रम में पीएम श्री स्कूल जवाहर नवोदय विद्यालय के 40 छात्रों और एक शिक्षक ने सक्रिय रूप से भाग लिया और इन महत्वपूर्ण स्वास्थ्य मुद्दों में गहरी रुचि दिखाई।

#### Published in:

Mirrormedia





# After Delhi Airport canopy collapse, government enlists CBRI to advise airport operators on structural safety





In response to a series of structural failures at various airports, including the partial collapse of a canopy at Terminal 1 (T1) of Delhi's Indira Gandhi International Airport in June, the Indian government has enlisted the expertise of the Central Building Research Institute (CBRI). The Roorkee-based CBRI has been tasked with advising airport operators across the country on structural safety and integrity.

The decision to engage CBRI follows several concerning incidents, including canopy collapses at Jabalpur and Rajkot airports in June. A senior official from the Ministry of Civil Aviation confirmed that the CBRI will guide the structural aspects of airport infrastructure, ensuring operators take

### necessary precautions to prevent such occurrences in the future.

In addition to CBRI's involvement, the ministry is also organizing a technical workshop for airport operators, where experts from the institute will provide specialized training on structural safety and resilience.

### Incident at Delhi Airport

On June 28, a partial collapse of a canopy at the old departure forecourt of T1 in Delhi resulted in one fatality and injuries to nine others. Heavy rains at the time of the incident were a significant

contributing factor. The structural failure prompted an immediate review by structural engineers from IIT Delhi. The ministry is now reviewing the report from IIT Delhi and is continuing to examine the structural integrity of the rest of T1.

### Broader Inspection and Study

In the aftermath of the incident at Delhi's Terminal 1, the ministry ordered the Airports Authority of India (AAI) to conduct inspections of all major and minor airports across the country. This comprehensive review is aimed at identifying any structural vulnerabilities and ensuring that airports





can withstand extreme weather conditions and other stressors. According to ministry sources, a detailed structural study of Terminals 2 and 3 at the Delhi airport is also underway, conducted by a team from IIT Madras. However, DIAL (Delhi International Airport Ltd), which operates the Delhi airport, has yet to provide an official comment on the study's progress.

### Nationwide Review of Airport Infrastructure

The CBRI's advisory role is part of a broader initiative to safeguard India's airport infrastructure. The structural study at airports managed by AAI is ongoing, with a focus on both minor and major facilities. Following the June 28 incident, the AAI was directed to issue a circular instructing all airports under its jurisdiction to conduct thorough inspections of their structural strength.

The ministry emphasised the importance of these inspections in its statement, noting that findings from the studies would inform future safety measures and long-term policies to prevent similar incidents. These measures are seen as crucial as India's aviation sector continues to expand, with 157 operational airports, heliports, and waterdromes currently in service and more expected to open in the coming years.

In June, Minister of State for Civil Aviation Murlidhar Mohol informed Rajya Sabha that the tensile fabric canopies at Jabalpur and Rajkot airports had torn during incidents on June 27 and 29, respectively. Investigations into the causes of these failures are underway.

As air travel continues to rise, ensuring the safety and reliability of airport infrastructure is a key

priority for both the government and airport operators. With the involvement of CBRI, IIT Delhi, and IIT Madras, authorities aim to address structural vulnerabilities and restore confidence in airport safety.

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## सीएसआईआर-एनसीएल में हिन्दी पखवाड़ा कार्यक्रम संपन्न

पाषाण, 6 अक्टूबर (आज का आनंद न्यूज नेटवर्क) सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला(एनसीएल) में हिन्दी पखवाड़ा के अंतर्गत, 23 सितंबर को मूलभूत अनुसंधान विषय पर विज्ञान हिन्दी संगोष्ठी का आयोजन किया गया. इस संगोष्ठी में वैज्ञानिक अजित जोशी, डॉ. अशोक गिरी, डॉ. महेश कुलकर्णी, प्रशासकीय अधिकारी कौशल कुमार, हिन्दी अधिकारी एक ध्व



अधिकारी कौशल कुमार, हिन्दी अधिकारी एक ध्वज के साथ-साथ एक भाषा का स्वाति चड्ढा मंच पर उपस्थित थे. विधान होना, आज की सबसे महत्वपूर्ण संगोष्ठी में 8 वैज्ञानिक शोध-पत्र प्रस्तुत आवश्यकता है. देश में सभी भाषाएं फले-किए गए. संगोष्ठी में 85 प्रतिभागी शामिल फूलें, किंतु राजभाषा हिन्दी को सही अर्थों हुए. अजित जोशी ने कहा, एक राष्ट्र, में अपनाना अत्यंत जरूरी है. स्वार्थ के साथ-साथ एक भाषा का संगेष्ठी में 8 वैज्ञानिक शोध-पत्र प्रस्तुत विधान होना, आज की सबसे महत्वपूर्ण संगोष्ठी में 8 वैज्ञानिक शोध-पत्र प्रस्तुत अवश्यकता है. देश में सभी भाषाएं फले-हुए. अजित जोशी ने कहा, एक राष्ट्र, में अपनाना अत्यंत जरूरी है. स्वार्थ के सही अर्थों संगोष्ठी में 8 वैज्ञानिक वीरेंद्र उपस्थित थे.



Aaj Ka Anand



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