

# CSIR IN MEDIA



**CSIR**

**NEWS BULLETIN**

**26 TO 31 AUGUST 2022**





## CSIR Will Back Leather-Focused Startups & Entrepreneurs: MoS Jitendra Singh

CSIR-CLRI

30<sup>th</sup> August, 2022

Singh said that the country's leather sector has persistently secured high export earnings and is presently considered a top foreign exchange-earners for the nation

The minister highlighted that the Yogi Adityanath-led government has considered leather goods as an ODOP (One District One Product) for Agra and Kanpur districts



“The global leather goods market size is valued at \$424 Bn in 2022 and expected to reach \$744 Bn by 2030. Thus, India must tap the huge potential in the global leather pie,” he added

Central Leather Research Institute (CSIR-CLRI) of Uttar Pradesh's technology development board will back potential startups and entrepreneurs present in the leather industry with seed funding, said MoS for Science and Technology, Jitendra Singh.

Singh further said that the country's leather sector has persistently secured high export earnings and is presently considered a top foreign exchange-earners for the nation. He further called Indian youth to participate in the leather startup ecosystem.

Sharing more details about the initiatives that the CSIR-CLRI will take to promote leather startups, Singh said the institute is going to conduct surveys of leather and allied industries for students. Besides, practical demonstrations, trade counselling, vocational and tailor-made training programmes, consultancy services, students' internship at regular intervals will also be there.



The minister highlighted that the Yogi Adityanath-led government has considered leather goods as an ODOP (One District One Product) for Agra and Kanpur districts. The state government is also formulating strategic interventions to develop the cited districts.

Singh also noted that India achieved the position of the second largest exporter of leather garments and also, now the fifth largest exporter of leather goods across the globe. “The global leather goods market size is valued at \$424 Bn in 2022 and expected to reach \$744 Bn by 2030. Thus, India must tap the huge potential in the global leather pie,” he added.

In the end, he said that the country’s youth has the potential to fulfill the rising demand for leather apparel, footwear, and accessories.

Founded in 1963, Kanpur-based CLRI Regional Centre is one of the four centres of the main body—CLRI. It was originally established to promote leather markets of Uttar Pradesh and Madhya Pradesh. It is also equipped with chemical, physical and eco-testing laboratories.

The development has come at a time when the country’s leather industry is largely operated in an unorganised manner by traditional leather traders.

Moreover, the country’s leather industry, which stood at \$13 Bn in 2020, is likely to become a \$25 Bn market by 2030. A few startups operating in this space are Nappa Dori, The Sole Sisters, The Black Canvas, The Trunks Company, and The Burlap People.



## CSIR lab starts studying impact of twin towers' demolition

CSIR-CBRI, CIMFR

31<sup>st</sup> August, 2022

Following the demolition of the Supertech twin towers in Noida, a team of scientists from the CSIR lab Central Building Research Institute (CBRI) has started studying the impact of the vibration and conducting material, demolition and construction-related research collected by the high-tech gadgets they had deployed at the buildings for scientific purposes.

Around 20 hi-tech seismographs and 10 black boxes -- an electronic device to record sound in aircraft -- were among the equipment placed inside the twin towers while drones with thermal image cameras were deployed outside the structures to capture pictures and videos that would help in future research.

The CBRI was appointed by the Supreme Court as a technical expert for the demolition of Supertech's nearly 100-metre-tall illegal structures in Noida's Sector 93A. It was the CBRI that selected Mumbai-based Edifice Engineering that safely brought down the structures by 'waterfall implosion' that caused no structural damage to nearby buildings as close as nine metres.

The CBRI had roped in the Central Institute of Mining and Fuel Research (CIMFR) for ground vibrations. Its teams from Dhanbad in Jharkhand and Bilaspur in Chhattisgarh were present during the demolition. "We had 19 seismographs. These are high-end and highly technical seismographs which were installed in a 150-metre range from the twin towers.

Some equipment were placed in the basements of the twin towers while others were placed on different floors so that we could get the magnitude of the vibration of the two buildings," a senior scientist from CBRI said. "All the information gathered from these equipment and instruments will help us in future for material studies, demolition and construction-related research.



We also used instruments like geophones to record and study the movement of vibrations within buildings and also give an idea about the load a building could during such activities besides devices to study soil conditions," the scientist said.

The thermal imaging cameras form images using infrared radiations and are largely used in fires and other disaster management activities to detect people engulfed in thick smoke and dust. "Several high-technology equipment and instruments were placed inside the twin towers and their findings will be very useful for future studies. There has been no structural damage in the nearby residential towers of ATS Village and Emerald Court societies.

Besides a compound wall of ATS Village, some window panes have broken. We had asked for a post-demolition structural audit which is to be done by Supertech. Once that is done, its findings will help us analyse the demolition," said the scientist.



## Tarn Taran: Plantation drive at school branch

CSIR-IMMT, IPU

30<sup>th</sup> August, 2022

Tarn Taran: Dr PK Samanta Rai, the bishop of the diocese in Amritsar, planted saplings at the complex of the newly established branch of Alexandra School in Tarn Taran on Monday. A function was organised on the occasion, which was attended by members of the church and the governing body of the school. Dr Rai, in his address, stressed on the need to keep the environment pollution-free.



### GNDU organises national workshop

Amritsar: A two-day national workshop was organised by the Golden Jubilee Center for Entrepreneurship and

Innovation on the topic 'Relevance of IPR in the Era of Innovation Driven Research'. The objective of the workshop was to sensitise the participants about the important role of IPR in generation and nurturing fresh knowledge. The workshop was inaugurated by Prof. Sarbjot Singh Behl, Dean, Academic Affairs, Guru Nanak Dev University, Amritsar, in the presence of Prof. (Dr) PK Pati, Coordinator, GJCEI, Harkirandeep Kaur, Workshop Coordinator and resource persons, Dr Pavan Kumar, Senior Scientist at CSIR, IMMT Bhubneshwar and Dr Yogesh Dhoble, Senior Principal Scientist CSIR, IPU, New Delhi. The participants were encouraged to think out of the box, and to convert their ideas into meaningful and innovative practices. Prof. P.K. Pati introduced the participants to the mandates of the GJCEI, and encouraged them to participate in various activities being carried out by the centre. He also briefed the audience about the infrastructure available at the centre.

### Celebrations at Bhavans

The Bhavans Kala Kendra organised a live music-and-dance performance by staff and



students, 'Dhamaal lok Geetan Di' at Bhavans SL Public School, Amritsar on August 28. The participants sang Punjabi folk songs and danced to enhance the true essence of the folk music and dance. They sang evergreen songs by legendary folk artists like Surinder Kaur, Asha Singh Mastana, Noor Jahan, Parkash Kaur, Wadali brothers, Gurdas Maan and many more. The chief guest urged students to take pride in their mother tongue, Punjabi. Dr PS Grover also urged them to stay in touch with the roots of their Punjabi culture and civilisation in this modern era.

### **Gurgaddi Day celebrated**

Sri Guru Harikrishan Senior Secondary Public School, GT Road, celebrated Gurgaddi Divas of the fifth Patshahhi Sri Guru Arjan Dev on its premises. The purpose of this programme was to introduce students to the life, poems, great deeds and teachings of the fifth Patshahi, Guru Arjan Dev. Addressing the students on this occasion, sikh scholars explained in detail the significance and the impact of his teachings. They also encouraged the students to connect with Bani and Sikhi. The winners of the Kanth competitions were awarded with medals. The fourth grade student of the school, Kirat Singh, who has memorised 18 verses of bani, was honoured. /oc



## Union minister Jitendra Singh inaugurates Bisphenol- a pilot plant at CSIR-NCL

CSIR-NCL

29<sup>th</sup> August, 2022

PUNE: Dr Jitendra Singh, union minister of state, ministry of science and technology ministry of earth sciences, ministry of personnel, public grievances and pensions, department of atomic energy, department of space recently visited CSIR-National Chemical Laboratory (CSIR-NCL), Pune.

During the visit, he inaugurated the Bisphenol- A (BPA) pilot plant facility and addressed the staff and students of CSIR-NCL. Bisphenol-A (BPA) is an important feedstock for producing epoxy resins, polycarbonate, and other engineering plastics. The global market for Bisphenol-A is projected to reach 7.1 Million Tons by 2027, growing at a CAGR of 2% over 2020-2027.

"The total estimated annual demand of 1,35,000 tons in India is imported today. CSIR-NCL has developed a continuous catalytic pilot scale process for the production of BPA under CSIR's Bulk Chemicals mission program. Successful pilot plant trials have been completed continuously 24\*7 for nearly 45 days," a news statement by NCL said.

"Nearly complete conversion (90-99%) of the raw material (acetone) was achieved at steady state operation. The catalyst used in the process is robust. A highly pure colourless BPA is produced in the continuous process. The uniqueness of the method developed by CSIR-NCL is a novel downstream process technology, which makes this indigenous technology competitive with global benchmarks," it said.

This technology will enable import substitution of this essential raw material and help in India's Atmanirbhar initiative. The process is ready for technology transfer and further co-development to a commercial scale.

**Published in:**

[Msn](#)



## सिंफर ने की ट्विन टावर गिराने की मॉनिटरिंग



ट्विन टावर गिराने के अभियान में शामिल सिंफर के वैज्ञानिक।

धनबाद, विशेष संवाददाता । ट्विन टावर गिराने में सीएसआईआर की धनबाद स्थित प्रयोगशाला केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान (सिंफर) के वैज्ञानिकों की अहम भूमिका रही। तीन वैज्ञानिक समेत पांच तकनीशियनों की टीम ने इस काम में एडिफिक इंजीनियरिंग एवं दक्षिण अफ्रीका की कंपनी जैक डिमोलिशन को सहयोग किया। टावर गिराने की मुख्य जिम्मेदारी अफ्रीकी कंपनी जैक डिमोलिशन को ही दिया गया था। सिंफर वैज्ञानिकों ने टावर में ब्लास्टिंग की डिजाइन एवं विस्फोट के दौरान कंपनी की मॉनिटरिंग की। अगल-बगल के भवनों की सुरक्षा में भी तकनीकी सहयोग किया। इस कार्य में सहयोग के लिए सिंफर एवं सीएसआईआर की एक और

- सिंफर वैज्ञानिकों ने लगाए थे 19 सिस्मोग्राफ
- आसपास के भवन की सुरक्षा की भी जिम्मेदारी

प्रयोगशाला सेंट्रल ब्लिडिंग रिसर्च इंस्टीच्यूट रूडकी को 70 लाख रुपए बतौर फीस मिली।

सिंफर की पांच सदस्यीय टीम डॉ सी सोमिलियाना (मुख्य वैज्ञानिक), डॉ हर्ष वर्मा (सीनियर प्रधान वैज्ञानिक), डॉ रंजीत पासवान, राकेश कुमार सिंह, पुष्पेंद्र पटेल एवं सैकत बनर्जी ने काम किया। डॉ हर्ष ने बताया कि ब्लास्टिंग के बाद आसपास की भवन पूरी तरह सुरक्षित हैं। कुछ ब्लिडिंग में कांच आदि टूटे हैं बाकी कोई नुकसान नहीं हुआ है।



## Up to 16 m tons of foodgrains lost annually over lack of safe storage: CFTRI Director

CSIR-CFTRI

26<sup>th</sup> August, 2022

Sridevi Annapurna Singh, Director, CSIR-CFTRI, has said that 12 to 16 million tons of foodgrains is lost every year in India and highlighted the need for adopting latest technologies for protecting grain such as wheat, paddy/rice, maize, etc., from being damaged by pests. She was speaking after inaugurating a two-day stakeholders workshop on grain storage and pest management



organised in collaboration with UPL Ltd., Mumbai, by CSIR- CFTRI, Mysuru, here recently. Around 80 participants, including farmers, grain storage and other industry personnel, research scholars and professionals attended.

Dr. Singh released a compendium on 'Biology of stored product insects and their management'. Speakers from representative organisations presented technical lectures on the preservation, fumigation, and organic protection of foodgrains. The lectures were followed by practical demonstrations on effective grain fumigation as well as controlled atmosphere (CA) storage techniques for the benefit of farmers and grain storage agencies.

Prakash M. Halami, Chief Scientist and Head, Food Protectants and Infestation Control Department, CFTRI, talked about the objectives and significance of the workshop and future challenges in pest management.

### FCI's role in food security

Ravi Kumar Sinha, Deputy General Manager (QC), Food Corporation of India (FCI), New Delhi, spoke about the role of FCI in food storage and management and explained the current



grain preservation practices in the corporation. He assured encouragement and required assistance from FCI for the trial of new storage methods at its facilities.

In addition, the use of phosphine as an alternative fumigant in Quarantine and Pre-shipment (QPS) applications was presented by Sumitra Arora, Principal Scientist, ICAR-NCIPM, New Delhi, with laboratory and field data. Alice R. P. Sujeetha Director (PBD), NIPHM, Hyderabad, explained various bio-security threats.

### **Integrated Pest Management**

Integrated Pest Management (IPM) is a pest control approach based on combinations of various techniques which are environmentally friendly and effective. S. Mohan, retired professor, TNAU, Coimbatore, spoke about different indigenous insect pest detection and monitoring devices for use at rural and large-scale grain storage centres.

M. Loganathan, Director (I/C), NIFTEM, Thanjavur, discussed non-chemical methods for insect pest management in grain storage.

Scientists from CFTRI spoke about new trends in mitigating mycotoxins in stored grain and ways to address the issue.

Ujjwal Kumar, Business Head, UPL Ltd., spoke about the campaign 'Dana Dana Kimati Hai' for reducing the food loss by insect infestation during storage.

### **Demonstration**

A demonstration was conducted on hermetic methods of grain storage. This method was explained and demonstrated by representatives from GrainPro Ltd. The importance of gas monitoring during fumigation and different equipment available for the same were elaborated.

**Published in:**

[The Hindu](#)



## Shaping the Energy Future: Challenges and Opportunities” (SEFCO) during 26-27 August, 2022

CSIR-IIP

26<sup>th</sup> August, 2022

CSIR-Indian Institute of Petroleum is organizing the 6th National Symposium on “Shaping the Energy Future: Challenges and Opportunities” (SEFCO) during 26-27 August, 2022. Dr. Anjan Ray, Director, CSIR-IIP shaped this event in 2017, which has now become an annual event organized by the researchers and research scholars in the institute.

This seminar provides an excellent forum for scientific discussion. This year the symposium will focus on the theme "Innovative Steps towards Net-Zero Clean Energy in India by 2070". Shri Prabha Das, Managing Director and CEO, HPCL Mittal Energy Limited (HMEL) was the Chief Guest and Ms. Sukla Mistry, Director (Refineries), Indian Oil Corporation Limited (IOCL) was the Guest of Honor at the inaugural function of the symposium.

Dr. Anjan Ray welcomed all the distinguished guests and delegates attending the seminar and presented his introductory remarks. In her welcome address, Ms. Sukla Mistry expressed the need for revolutionary changes in the energy sector to meet the goals as per the Paris Agreement. Citing the International Energy Agency, she said that by 2050, there is a need to minimize the fossil fuel emissions to net-zero. She also discussed the expected use of green hydrogen in carbon capturing and storage.

In his address, Shri Prabha Das emphasized on making carbon capturing economically viable as well as productive. Highlighting the success of India's development in terms of power supply and fuel exports, he said that our country has achieved miraculous success in such areas as compared to any other country.

The two-day symposium will present an exclusive spectrum of scientific sessions to industries, academia, scientists and technologists. More than 200 delegates from various national organizations have registered for this seminar. Along with the technical session,



poster presentations will also be made by the participants in the symposium. The sponsors of this symposium are IOCL, EIL, BPCL, ONGC, GAIL, CPCL, BHEL, and ACS Publications. In addition, DEW Journals is the knowledge and publicity partner of this symposium.



## CSIR-CIMAP

{ CSIR-CIMAP DEVELOPS CIM-SUDEEKSHA }

## Desi oregano for your pizza & pasta

**Aakash Ghosh**

aakash.ghosh@htlive.com

**LUCKNOW:** Oregano, commonly used in Italian and Mexican dishes, a big hit with Indians too, will no longer have to be imported.

CSIR-CIMAP (Central Institute of Medicinal and Aromatic Plants), Lucknow released India's first oregano on Monday at the 44th annual day of the Institute.

After six years of rigorous research, a team of 16 CIMAP scientists and researchers led by senior scientist KT Venkatesha developed the new variety of the herb.

"Till now India imported oregano as it was not commercially cultivated here due to lack of commercial cultivators and less variety. This is for the first time that any scientific institute in

India has developed it for its commercial cultivation," said PK Trivedi, director, CIMAP, Lucknow.

"At present, a small quantity of commercial oregano is collected from wild sources without focusing on a specific chemotype/variety," he added.

Oregano, scientifically known as *Origanum vulgare* L. is a widely used popular spice under the vernacular name 'Oregano'.

Oregano is of great economical use owing to its various traditional and modern applications. Dried Oregano leaves and essential oils are used by the flavouring industry in various liquor formulations, tomato sauces, condiments, in baked foods such as pizzas, salad dressings, and many other food varieties, Venkatesha said.

### Market value

In India, commercial oregano is imported from other countries, especially Europe. In India, it has a market value of Rs 3360.95 lakh which can be assessed from 2019-2020 import value, according to the Institute.

### Improved variety

"This new variety is the result of extensive breeding efforts to improve herb and oil yield. In the field evaluation trials, this variety consistently produced more herb and essential oil yield.

"The essential oil content of this variety is 0.7% (dry weight basis), with a carvacrol content of 53.0-63.0%. It also meets DUS (distinctiveness, uniformity, and stability) criteria because this variety is morphologically distinct, as evidenced by its

bushy canopy, dark green leaves, thick and rigid leaves and other distinguishing characteristics," said RC Padalia, principal scientist, who was instrumental in developing the variety.

### To benefit farmers

This variety has high yielding potential, as much as to produce 65-68 quintal dry herb per hectare and essential oil yield of 45-48 kg per hectare.

These varieties will be given to farmers by CIMAP to produce them and they will also be linked to the industries for their profit.

Currently, a small group of farmers in Pantnagar (Uttarakhand) has been given the opportunity to grow it. Soon the districts in UP will be motivated to grow the herb, according to Venkatesha.

CSIR-INDIA





## Please Follow/Subscribe CSIR Social Media Handles



[CSIR INDIA](https://www.youtube.com/CSIRINDIA)



[CSIR\\_IND](https://twitter.com/CSIR_IND)



[CSIR India](https://www.facebook.com/CSIRIndia)



[CSIR India](https://www.linkedin.com/company/CSIR-India)



[csirindia](https://www.instagram.com/csirindia)