# CSIR in Media



## News Bulletin

1<sup>st</sup> to 10<sup>th</sup> November 2018







## Four Delhi flyovers set for repair next year





The four are the Lodhi Road flyover on Lala Lajpat Rai Road, the Oberoi flyover on Zakir Hussain Marg, the Chirag Dilli flyover on Outer Ring Road, and the ISBT Kashmere Gate flyover.



Rai Road, the Oberoi flyover on Zakir Hussain Marg, the Chirag Dilli flyover on Outer Ring Road, and the ISBT Kashmere Gate flyover. PWD officials say these flyovers will be repaired on a priority basis because traffic volume is high on the arterial roads they connect. ISBT Kashmere Gate and Chirag Dilli flyovers witness about 250,000-300,000 vehicles a day, traffic police data reveals. About 150,000-200,000 vehicles use Lodhi Road and Oberoi flyovers daily. The Lodhi Road and Oberoi flyovers were constructed for

ISBT Kashmere Gate and Chirag Dilli flyovers witness about 250,000-300,000 vehicles a day, traffic police data reveals. About 150,000-200,000 vehicles use Lodhi Road and Oberoi flyovers daily. (HT File Photo)

The Delhi government's Public Works Department (PWD) will early next year the Asian Games held in Delhi in 1982,

start repair work on four of the city's busiest while the ones at ISBT Kashmere Gate and flyovers — three in south Delhi and one in Chirag Dilli were constructed in 1991 and North Delhi — that were constructed for the 1992 respectively. Earlier this year, the 1982 Asian Games or in the early 1990s after department hired Council of Scientific and an initial study found they had developed Industrial Research-Central Road Research cracks and needed immediate work. The four Institute (CSIR-CRRI) to inspect the are the Lodhi Road flyover on Lala Lajpat condition of eight flyovers in Delhi, which





were constructed in the 1980s and 1990s. "We identified these four flyovers based on the visual inspection report submitted by CSIR-CRRI. These flyovers are very old and need immediate repair. We have appointed consultants to do a detailed study on the condition of the four flyovers," said a senior PWD official familiar with the plan who asked not to be

identified. "The consultant will examine the quality of concrete, check for rusting in reinforcement material (iron bars in the base), strength of the structure, width of cracks etc. The expansion joints will have to be replaced," said the official.

CSIR-CRRI's bridge and structures division carried out the visual inspection of these flyovers and submitted its report in June 2018. "In our report, we pointed out that these flyovers, which are very old, have developed cracks and recommended that PWD get nondestructive testing and a detailed study done on the condition of these flyovers and accordingly plan for their rehabilitation," said GK Sahoo, head of bridges and structures at

## CSIR-CRRI.

PWD officials say that the consultants will first do an inspection of these flyovers and then carry out tests to assess the strength and condition of the structures. "We have asked them to prepare the reports in three months' time. Based on the report, we will plan the rehabilitation work. The repair work will start next year," added the PWD official cited in the first instance. There are 86 flyovers on PWD roads across Delhi, of which 11 were constructed in the 1980s and the '90s. After problems were reported in the Lajpat Nagar flyover last year, PWD made visual inspection of several flyovers.

While repair work on several flyovers such as Akshardham, Lajpat Nagar, Meera Bagh and Defence Colony have been completed, the department is in the process of repairing other flyovers. In East Delhi; it has started repair work on the Shreshtha Vihar flyover and will soon start the work on Nand Nagri flyover. HT recently reported cracks in the Nehru Nagar rail Road Over Bridge (ROB), which is nearly 50 years old, near Ashram in south Delhi. Delhi PWD is in the process of preparing estimates for its repair.





According to PWD officials, the repair of Nehru Nagar ROB will cost close to ₹15 crore and will start early next year. Road safety and transport planning experts stress the need for regular maintenance of road infrastructure in the city. "These flyovers are located on arterial roads with high vehicular load. Chirag Dilli and Kashmere Gate are used by heavy vehicles, as these are located on the Outer Ring Road. The government should devise a plan for regular maintenance of flyovers. While new flyovers are being constructed in the city, it is important to repair and rehabilitate old ones as structural defects can lead to failure of the structure, " said Sewa Ram, professor of transport planning at the School of Planning and Architecture.



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## **CIMAP signs pact with RIFM to standardize fragrant oils**

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The Central Institute of Medicinal and Aromatic Plants (CIMAP) on Friday signed an agreement with US-based Research Institute for Fragrant Materials (RIFM) for improving the quality of fragrant oils, a spokesman of the institute said.

The pact was signed by Anil Kumar Tripathi, Director CSIR-CIMAP and Jim Romane, President of the RIFM at the conclusion of the two-day annual conference of the International Fragrance Association in Paris.

Since the RIFM internationally standardizes the quality of fragrant materials, it will give a big boost to the fragrance quality in India, spokesman Manoj Semwal said.

"The pact will go a long way in standardizing the fragrant material produced in India and bring it to an international level," he told IANS while adding that the CSIR, under the "aroma mission" was aiming to enhance production of fragrant materials.

To increase the acceptability and demand of Indian fragrances on a global level, a team of the RIFM had visited the Lucknow headquarter of CIMAP earlier in 2018. The

deliberations during the visit resulted in the signing of the MoU.

## Published in:

**Business Standard** 

![](_page_5_Picture_0.jpeg)

पाती थी। लिहाजा इन सभी प्लांट्स का को लेकर प्लांट्स की जांच को बारीकी टेस्ट कर इसकी बारकोडिंग होगी। से तय किया जाए।

को ठगा जाता है। अब डीएनए से पता चल जाएगा कि पौधा असली है या नकली।

गा इस टेस्ट को कर पाएंगे, जिसकी ट्रेनिंग छात्रों को दी जाएगी।

डा. संजय, निदेशक, हिमाचल जैव एवं प्रौद्योगिकी संस्थान

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Divya Himachal

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The Garhwal-Kumaon segment of the northwest (NW) Himalayas is seismically the "most vulnerable section" of the region with a potential to generate great earthquakes.

![](_page_6_Picture_3.jpeg)

Bengaluru: The Garhwal-Kumaon segment of the northwest (NW) Himalayas is seismically the "most vulnerable section" of the region with a potential to generate great earthquakes, warns a new study by researchers from multiple institutions in India.

Their findings, reported in the journal "Earth and Planetary Science Letters", is based on analysis of five years (2013-2018) of continuous GPS measurements from 28 stations located in the Garhwal-Kumaon Himalayas and the adjoining Indo-Gangeti plains.

Lifted by the subduction of the Indian tectonic plate under the Eurasian Plate, the Himalayan mountain range runs in an arc, about 2,400-km long, separating the plains of the Indian subcontinent from the Tibetan Plateau.

Partly in India and partly in western Nepal, the NW Himalayas have not experienced a great earthquake since at least 1505, Vineet Gahalaut director of the National Centre for

#### Seismology in New Delhi and c ..

An analysis of GPS measurements of crustal deformation suggests "strong seismic coupling" underneath Garhwal-Kumaon region, he said. Strong inter-plate coupling means the fault below Garhwal-Kumaon segment is "locked" and capable of accumulating stress. The width of the coupled region, according to the report, is estimated to be about 85 km.

This strongly-coupled region must have accumulated a "slip" of more than 7 meters since the last earthquake in 1505 "which is enough to produce a great earthquake in the region", the researchers claim. Slip is the relative displacement of formerly adjacent points on opposite sides of a fault.

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Published in:

**Economics Times** 

According to their report, GPS measurements found the convergence rate in this part of the Himalayas is about 18 millimeters per year which has continued for more than 500 years - making this slice of the geological fault "one of the most earthquake-vulnerable segments of the Himalayan arc."

The network of GPS sites in the Garhwal Himalayas, the densest anywhere along

the Himalayan arc, "provides the most reliable estimate of spatial variations of site velocities in the Himalayas," the authors say.

"The derived coupling map from GPS measurements has implications for seismic hazard in the Garhwal-Kumaon region," says the report, adding that the regions of high-coupling would be the regions of high seismic energy release during future earthquakes.

"Taking the analogy from the 2015 Gorkha earthquake and 1985 Mexico earthquake, the sediment filled valleys, such as the Dehradun valley in the Garhwal region, are expected to be the regions of potentially more damage in future events."

This has serious implications in terms of seismic hazards, the report says, "as the population density is higher in the frontal Himalayas and its contiguous Indo-Gangetic plains, thus exposing more people to high, near-field ground shaking."

![](_page_7_Picture_8.jpeg)

Besides this, the unconsolidated sediments in the Indo-Gangetic plains can cause more structural damage during earthquakes and also liquefaction -- wherein saturated soil behaves more like a liquid than a solid -- as happened in the 1934 Nepal-Bihar earthquake, says the report.

Besides Gahalaut, the study team included scientists from Institute of Seismological Research, Gandhinagar; National Geophysical Research Institute, Hyderabad; V.C.S.G. Uttarakhand University of Horticulture and Forestry, Pauri; Wadia Institute of Himalayan Geology, Dehradun and G.B. Pant National Institute of Himalayan Environment & Sustainable Development, Almora.

Chittenipattu Puthenveettil Rajendran, seismologist at the Indian Institute of Science in Bengaluru, says the study "reiterates an earlier premise that the central Himalaya is strongly coupled and is waiting to break in a great earthquake anytime sooner".

The Garhwal-Kumaon segment of the Himalayan arc (including parts of Nepal and India) never had a great earthquake during the last 600-700 years, Rajendran told this correspondent. "That means more than 20 meters of seismic slip is accumulated over these years, which can be released only by one or more great earthquakes (Mw >8.5) in the region.

"This poses a serious hazard for the Himalayan region and the heavily-populated adjacent Gangetic alluvial plains -- not seriously considered by the government," Rajendran noted.

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**CSIR-CEERI** 

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## 8<sup>th</sup> November, 2018

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सकेगा। ये पटाखे मौजूदा क्रैकर्स से थोड़े अलग होंगे। सीरी के साइंटिस्ट अंकुश जैन का कहना है कि केन्द्रीय मंत्री डॉ.हर्षवर्धन ने छह महीने पहले हमें चैलेंज किया था कि क्या साइंस के क्षेत्र में काम कर रहे अग्रणी बनाए हैं। इसमें ई-लड़ी, ई अनार और ई कोई फुलझड़ी लेकर जाने पर ये जल

प्रोडक्शन करती है तो हर पटाखे की कॉस्ट 300 से 400 ही रह जाएगी। हम इंडस्ट्री के इनिशिएटिव का ही इंतजार कर रहे हैं। सीरी

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संस्थान पॉल्यू शन कम करने वाले इंडियन चकरी बनाए गए हैं। इसकी खासियत यह उठेंगे। इन्हें इस तरह डिजाइन किया है कि क्रैकर्स ईजाद कर सकते हैं। हमने उसी है कि ये सालोंसाल चलेंगे। साथ ही इसमें लगे एलईडी मौजूदा पटाखों जैसा दिन से इसे मिशन की तरह लिया और छह ऑरिजनल पटाखों को चलाने का फील ही रोमांच पैदा करेंगे। इसके लिए महीने में इलेक्ट्रॉनिक क्रैकर्स तैयार कर भी कमजोर नहीं होगा, क्योंकि हमने इसमें ऑप्टिकल फाइबर के साथ एलईडीज की दिखाए। ई क्रैकर्स में डिफरेंट वैरायटीज धर्मल सिमुलेशन भी इंट्रोड्यूस किया है। प्रोग्रामिंग की गई है। जिससे यह इफेक्ट जनरेट होगा। होंगी। फिलहाल तीन तरीके के क्रैकर्स जिससे इन पटाखों के पास में मोमबत्ती या

#### **Published in:**

Rajasthan Patrika, page no. 1

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## Engineering students get exposures of research environment at NM,

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welcomed the students and teachers and briefed about the programme, discussed an overview of CSIR and NML, its contributions in different branches of Science & Technology and defined science, science & technology, development of science & technology in Indian perspectives, also explains about natural resources like ores,

Metallurgical and Materials Engineering from Govt. College of Engineering, Keonjhar accompanied by two teachers Ranjan Kumar Mohanta and Sandhya Rani Rana visited CSIR-National Metallurgical with scientists and research scholars this morning under the aegis of CSIR-NML students were thrilled to visit the laboratory and interact with the working group. The programme was scheduled for 6 hours, which comprise CSIR & NML, Documentary film show and Laboratory Students were thrilled to have practical view visit. Dr. P.N. Mishra, Principal Scientist,

minerals, rocks and its value for the A batch of 40 students B. Tech, III year, development of our Nation. Further a lab. visits programme was organized to get exposure of R&D environment. Mr. Ranjan . Kumar has helped students to lab. visit. Students visited creep testing units of MTE Laboratory, Jamshedpur and interacted Division and knew about fatigue, creep, fractures prevailing in different types of industrial components. Students got exposure School Interactive programme. The of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and Furnace. The other area was Hot Dip Processing Simulation uints and further practically observed the characterization of different materials under Optical Microscope.

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of XRD and SEM. Biraj Kumar Sahoo, Scientist and Manish Soni nicely explained the R&D activities associated with this unit. The students were also visited the Mechanical Testing unit. This unit has provided opportunity for practical demonstration of Rolling, Forging and Wire Drawing. Dr. M.M. Humane, Senior Principal Scientist interacted and discussed about

the necessity and role of this unit in carrying out the R&D work in the area of Steel. Students asked number of questions and got satisfactory answers.

Students further visited to the E-waste unit. Ms. Rekha Panda has explained the different process and activities pertains to extraction of valuable metals from electronic appliance with experimented samples. Students got excited to pursue research in e-waste area and they have asked questions and further sorted out. Students were surprised to observe the 68 years' history of NML at museum and they asked different question based on sample and poster

## pertaining to minerals based product and facilities.

During the interactive session, number of students asked different questions on minerals, ores, origin of coal, the evolutionary history behind the formation of metal, metals forging, rolling, and heat treatment etc. Teachers and students requested for their next visit to the laboratory to gain deeper knowledge. Teachers expressed their view and was satisfied to know about the consistent effort and research emphasis in various sectors for the ultimate development of India. At last, teachers acknowledged and extend thanks to CSIR-NML authorities for providing opportunity to visit NML and observe various facilities.

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**Published in:** 

**Avenue** Mail

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## **Trg in mushroom cultivation imparted**

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Twenty-two mushroom farmers from Naharlagun, Doimukh and Sepa under the banner of NGO Empowerment of Needy participated in a training programme on cultivation of mushroom and production of vermicompost, organised by the Itanagar branch of the CSIR – North East Institute of Science & Technology (CSIR-NEIST) at G Sector here on Tuesday. The CSIR-NEIST branch has extensive facility for imparting training in mushroom cultivation technology.

The institute's senior technical officer, Dr Budhen Ch Baruah highlighted the prospects of

mushroom cultivation for self-sustenance and economic benefit. "Edible mushroom is also a very good source of Vitamin D," he informed, and advised the farmers to cultivate known varieties of mushroom available at the NEIST branch.

A demonstration on preparing mushroom bags was presented during the programme. Dr Baruah also highlighted the hazardous effects of using inorganic fertilizers and pesticides for food-yielding crops, and stressed on the use of vermicompost. The participants were later taken to the low-cost mushroom and vermicompost production units at the NEIST campus.

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## **Climate change causing ground surface warming in India**

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A recent NASA report has found that 17 of 18 warmest years in 136-year-record have occurred since 2001 and 2016 was ranked as the warmest on record.

NEW DELHI: It is common knowledge that climate change has had an impact on the Himalayas and the oceans in India, and now a study by scientists from the Ministry of Earth Sciences have found evidence of ground surface warming in peninsular India over the decades.

Analysis of borehole temperature provides information about regional climate change over a few centuries. Data from 146 borehole sites in the crystalline terrain of peninsular India were used to reconstruct surface ground temperature history.

The great majority of borehole sites that extend down to 200 metres and 300 metres in depth revealed rise in core temperature. Depths of the boreholes ranged from 150 to 1,522 metres. "Overall, 88 per cent of boreholes indicate predominant ground surface warming in peninsular India during the past three centuries," found the study. Peninsular India consists of states in Southern India and east India.

"The profiles show temperature anomalies in the top few hundred metres that is consistent with changing surface temperature over the past two-three centuries," it further said. Analysis of individual profiles for change in temperature reveals predominant surface ground warming in peninsular India with a mean change of nearly 1 degree Celsius for 129 years.

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The study has been jointly done by Borehole Geophysics Research Laboratory, Karad, CSIR-National Geophysical Research Institute, Hyderabad and Department of Geophysics, IIT (Indian School of Mines).

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CSIR-NML

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## 5<sup>th</sup> November, 2018

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जागरण विशेष ऊंची छलांग विकास श्रीवास्तव 💿 जमशेदपुर 🔹 इसरो के प्रोजेक्ट पर एनएमएल में विकसित की जा रही नई तकनीक यह देश के अंतरिक्ष कार्यक्रमों के लिए 🔍 पहला चरण सफल, 2019 तक पुरी किसी वरदान से कम नहीं होगा। अरबों तरह विकसित हो जाएगी तकनीक रुपये की लागत से तैयार होनेवाले अंतरिक्षयान का जहां अंतिम संभावना अभी अनुमानित आयु पर निर्भरता प्रक्षेपण के बाद भी उसमें बचे ईधन की तक उपयोग हो सकेगा, वहीं इससे करोड़ों प्रक्षेपित किए जानेवाले अंतरिक्ष यान की अपडेट जानकारी धरातल से प्राप्त करने के रुपये की बचता भी होगी। यह संभव होगा अपनी आयु का निर्धारण अनुमान के लिए उपकरण तैयार करने का पहला चरण अल्ट्रासाउंड पल्सर-रिसीवर के जरिए। सफलता पूर्वक पूरा कर लिया गया है। इसे आधार पर किया जाता रहा है। आमतौर इस यंत्र से धरती के बेस स्टेशन से जान 2019 तक पूरा कर लिया जाना है। पर एक अंतरिक्षयान की आयु औसतन सकेंगे कि अंतरिक्ष में चक्कर लगा रहे 12 वर्ष मानी जाती है। यह अवधि पूरी होने - डॉ. शर्मिष्टा सागर, ग्रुप लीडर, एडवांस यान में कितना ईंधन बचा है। वह और के बाद इसे बेकार मान लिया जाता है । मैटेरियल एंड प्रोसेस प्रभाग कितने टिनों तक चलेगा। स्म तक ग्रीक

लांचिंग के समय ही खत्म हो जाता है 80 प्रतिशत ईधन लांचिंग पैड से लांच करने की प्रक्रिया में ही 80 प्रतिशत ईधन की खपत हो जाती है। केवल 20 प्रतिशत ईंधन के साथ वह अंतरिक्ष में अपनी कक्षा में स्थापित होता है। यह ईधन यान को उसकी निश्चित कक्षा में बनाए रखने के लिए धरती स्थित बेस स्टेशन से नियंत्रित करने में काम आता है। लेकिन ईधन बचे रहने की जानकारी होने पर उसका उपयोग अधिकतम दिनों तक किया जा सकता है। इससे करोड़ों रुपये की बचत होगी।

अनुमानित 12 वर्ष की आयु पूरी हो जाने के बाद उसे वापस बुला लिया जाता है या बह अंतरिक्ष में ही बेकार होकर रह जाता है, जबकि यह संभावना बनी रहती है कि उसमें कुछ ईंधन बचा हो। यदि अंतरिक्ष में रहने के दौरान इस बात की पक्की जानकारी मिल जाए कि यान में कितना ईंधन बचा है, वह कितने दिन और चलेगा तो उसका उपयोग ज्यादा दिनों तक किया जा सकता है। इसीलिए इस शोध की जरूरत पड़ी। इसरो ने इसकी जिम्मेदारी एनएमएल को सौंपी। पहला चरण सफलता पूर्वक पूरा होने के बाद इसरो ने गरागाल को गणगापत भी भेजा है।

ाकरान दिना राफ परागा इस राफनाक				एनएनएए। का प्ररासायत मा मजा हा
को विकसित करने का पहला चरण	की अंतरिक्ष परियोजनाओं में यह	एनएमएल के एडवांस मैटीरियल एंड	के नेतृत्व में काम कर रही है। वर्ष 2019	केवल अमेरिका के नासा के पास यह
सफलतापूर्वक पूरा हो गया है। भारतीय	जिम्मेदारी राष्ट्रीय धातुकर्म प्रयोगशाला	प्रोसेस प्रभाग एनडीई एंड एमएम ग्रुप की	तक यह प्रोजेक्ट पूरा हो जाएगा।	ताकनीक है जिससे जाना जा सके कि
अंतरिक्ष अनुसंधान संगठन (इसरो)	(एनएमएल) जमशेदपुर को दी गई है।	टीम इस पर ग्रुप लीडर डॉ. शर्मिष्ठा सागर	क्यों पड़ी जरूरत : अंतरिक्षयान की	यान में कितना ईंधन बचा है।

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![](_page_14_Figure_10.jpeg)

Dainik Jagran

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## CSIR-NIO

## 5<sup>th</sup> November, 2018

## Indian National Science Academy fellowship for Prof Sunil Kumar Singh

Panaji, Nov 5 (UNI) Professor Sunil Kumar Singh, Director, CSIR - National Institute of Oceanography (NIO), Goa, has been elected as a Fellow of the Indian National Science Academy (INSA), New Delhi.

The INSA is a one of the three scientific bodies in the country. It elects an individual scientist as its Fellow for his/ her outstanding performance and contributions. Professor Singh has been elected for the prestigious fellowship. The fellowship will be effective from 1st January 2019. Professor Singh's present research interests are; Biogeochemistry of Trace Elements and Isotopes (TEIs)in the Indian and Southern Oceans and in the Indian Estuaries; Low temperature elemental and isotope geochemistry; Erosion and weathering studies in the Indian River System; Long-term carbon cycle; Geochronology of carbonaceous shales; Paleo-erosion of the Himalaya: Impact of climate and tectonics; Evolution of atmospheric oxygen and Paleoredox condition of the Proterozoic Oceans using Re-Os and Mo. Professor Singh has played a highly significant role on studies on low temperature elemental and isotope geochemistry and his researches are reported to have assisted in widening the understanding on the evolution of the Himalayas. His studies have been documented in several peer-reviewed articles; he has over 100 scientific papers to his credit. He has been honoured with several National Awards and Academy Fellowships including the National Geoscience Award (2012), Fellow of the Indian Academy of Sciences, Eminent Mass spectrometry Award(2014), The Council of Scientific and Industrial Research, the apex agency of the Government of India for scientific research, awarded him the Shanti Swarup Bhatnagar Prize

for Science and Technology, one of the highest Indian science awards for his contributions to Earth, Atmosphere, Ocean and Planetary Sciences in 2016, a statement from NIO here said on Monday. UNI AKM 1509

Published in: United News of India

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CSIR

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## 3<sup>rd</sup> November, 2018

## SRM Varsity felicitates Shanti Bhatnagar award winner Venkataratnam

Amaravati, Nov 3 (UNI) SRM University, Amaravati felicitated Shanti Swaroop Bhatnagar Award winner Dr.M Venkataratnam at its campus on Saturday.

Dr Venkataratnam is a Senior Scientist at National Atmospheric Laboratory, Tirupati in Andhra Pradesh.

The Council of Scientific and Industrial Research Institute (CSIR) presents Shanti Swaroop Bhatnagar awards every year for Scientists for their meritorious works in the field of scientific researches.

The award consists of Rs 5 lakh and a citation. Dr.M Venkataratnam is only one from both Telugu states who won this prestigious award for 2018.

Speaking on the occasion, Dr.Venkataratnam said that 'he is proud of winning the prestigious' Shanti Swaroop Bhatnagar award. He asked the faculty members of SRM University to have a target to attain the prestigious scientific award which ultimately raises their scientific knowledge and also status among the young scientists'. Dr Jamshed Bharucha, SRM University Vice Chancellor, AP- Amaravati has complimented the role of Dr Venkataratnam in the field of Researches on atmosphere. He said that SRM always promotes the researches among the faculty members. Prof. D Narayana Rao, Pro-Vice Chancellor, SRM University, AP-Amaravati on this occasion announced Rs 1 crore cash prize for its faculty members, if they won the Shanti Swaroop

## Bhatnagar award in future. SRM University is now conducting more researches on Hydrogen train, 3 D gold printing and many other subjects, Prof Rao added. UNI DP CS 1841

**Published in:** United News of India

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**CSIR-IHBT** 

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## 3<sup>rd</sup> November, 2018

![](_page_17_Picture_3.jpeg)

ग्रामीण अजीविका मिशन के तहत सीएसआइआर-आइएचबीटी में कार्यक्रम आयोजित

संवाद सहयोगी, पालमपुर आह्वान सीएसआइआर के पालमपुर स्थित 🔹 मिजोरम के अधिकारियों व महिला हिमालय जैवसंपदा प्रौद्योगिकी संस्थान किसानों को दिया जा रहा प्रशिक्षण में मिजोरम राज्य के ग्रामीण आजीविका मिशन के अधिकारियों व स्वयं सहायता 🔹 मिजोरम में उगाई जा रही हैं सेव की समूहों की महिला किसानों के लिए चार लो चिलिंग किस्में **建筑**在1888年 दिवसीय जागरूकता व प्रशिक्षण कार्यक्रम EXPOSURE VISIT हिमाचल के मंडी जिले व जम्मू-कश्मीर आयोजित किया गया। इसमें किसानों की आर्थिकी सुदुढ़ करने के लिए विभिन्न कृषि के रेयासी जिले के करीब 60 किसानों Institute of electricity at Bourgaries Solutions and the Falancian Electrical Praiders प्रौद्योगिकियों की जानकारी दी गई। संस्थान ने भाग लिया। मिशन के अंतर्गत पुरे UNIN SHE MENDER भारत में 5550 हेक्टेयर भूमि पर सगंध निदेशक डॉ. संजय कुमार ने कार्यक्रम में Examined Street Constraints Mission Date: Local United Street Mission (Partiell M) Example Street Street Street To S बतौर मुख्य अतिथि शिरकत करते हुए फसलों की खेती की जा रही है। संस्थान के निदेशक डॉ. संजय कुमार ने बताया कहा कि सीएसआइआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान की ओर से कि जैव आधारित आर्थिकी वैश्विक पालमपुर में आयोजित कार्यक्रम में उपस्थित मिजोरम के किसान 🌑 जागरण विकसित विभिन्न तकनीकों को अपनाकर नेतृत्व प्रदान करने और भारत सरकार मिजोरम के किसान भी लाभ उठा सकते 🛛 25 लाख पौधों की प्रजातियों में से करीब की ओर से निर्धारित किसानों की आय के जागरूकता एवं प्रशिक्षण कार्यक्रम हैं। संस्थान के सहयोग से पहली बार सेब तीन हजार प्रजातियों में सगंध तेल पाया मिजोरम राज्य के किसानों के लिए बहुत को दोगुणा करने के लक्ष्यों को प्राप्त करने की लो चिलिंग किस्में मिजोरम के चंपाई जाता है। 300 से अधिक सगंध तेल विश्व उपयोगी हैं। की दिशा में संस्थान ने सुगंध, खाद्य एवं जिला के करीब 5.2 एकड़ क्षेत्र में उगाए – व्यापार में हैं, लेकिन केबल 100 से कम न्यूट्रास्यूटिकल, पोषण, फाइबर, रंग एवं नकदी फसलों को व्यावसायिक रंजक के क्षेत्र में विभिन्न मिशन मोड़ और जा रहे हैं। इसके सफलतापूर्वक परिणाम – किस्मों का अधिक और लगातार मांग के प्राप्त हुए हैं। इन किस्मों को कम से कम चलते नियमित रूप से व्यापार और खेती **स्तर पर उगाएं किसान** ट्रांसलेशनल परियोजनाओं को शुरू किया 200 से 500 घंटे की सिंहिंग अवर्स की जाती है। फिनोरम से आप किसामें है। उन्होंने किमानों से आहतान किस कि ਤੀਗਤ ਜਟਸ਼ੀਸੀ ਸ਼ਾਦਸ਼ਸਤ , ਇਸ਼ਾਦਰਾ

![](_page_17_Picture_7.jpeg)

३०० स ३०० वट का पालम अपस	બગ ગામાં છે નગગારન સંઆર્પબબ્લાના	लपाद संख्याणा, पालमपुर । एनालाभ	રા ગરાના બગ્લાના સ આદબાના બગ્લા બગ
की आवश्यकता होती है। कार्यक्रम	को इंजीनियर केके सिंह ने बांस चारकोल	जैवसंपदा प्रौद्योगिकी संस्थान पालमपुर में	वे सगंध फसलों को व्यावसायिक स्तर पर
समन्वयक डॉ. राकेश कुमार ने सगंधित	प्रसंस्करण व बांस के विभिन्न उत्पादों की	सीएसआइआर अरोमा मिशन के अंतर्गत	उगाएं तथा अच्छी आमदनी प्राप्त करें।
फसलों गुलाब, रोजमेरी, लैवेंडर, जंगली	भी जानकारी दी। प्रोजेक्ट मैनेजर मिजोरम	हिमाचल व जम्मू-कश्मीर के प्रगतिशील	इस अवसर पर संस्थान प्रधान वैज्ञानिक
गेंदा, लेमन ग्रास की खेती, उत्पादन व	राज्य ग्रामीण आजीविका मिशन आइजॉल	किसानों के लिए दो दिवसीय जागरूकता	डॉ. राकेश कुमार, डॉ. राणा, विवेश सूद
मूल्यवधर्न की जानकारी दी। विश्वभर में	लालवेनसांगा ने बताया कि इस प्रकार	शिविर का आयोजन किया गया। इसमें	व अन्य मौजूद रहे।

### **Published in:**

Dainik Jagran, Page no. 4

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## Award for IICT scientist

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Published in:

The Hindu

CSIR-Indian Institute of Chemical Technology principal scientist and Department of Biotechnology Tata Innovation Fellow S. Venkata Mohan has been selected for the prestigious Vasvik Award for 2018 in the category of Environmental Science and Technology.

Vasvik Research Awards are presented by Vividhlaxi Audyohik Samshodhan Vikas Kendra, Mumbai, to scientists and researchers who have excelled in their designated field. Dr. Venkata Mohan's research contributions over the past 20 years in the interface of environment and bioengineering related to environment and human health were considered for selecting him for this award.

He had made concerted efforts to develop novel and sustainable technologies by utilization of waste as a potential resource for both value addition and its treatment through his multi-disciplinary approach. His work has convincingly documented that waste/wastewater is a viable and renewable feed-stock/substrate for harnessing various forms of clean bio-energy, said a press release.

The scientist had also successfully demonstrated the production of bio-hydrogen on a pilot scale with simultaneous treatment of waste water in a bio-refinery approach, a press release said.

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## Tata Chem plans capex of ₹2,400 cr.

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**Investment will raise the firm's soda ash, salt capacities** The board of Tata Chemicals Ltd. has approved a capital expenditure of ₹2,400 crore which would be deployed towards de-bottlenecking of Mithapur facility. The investment would enhance the company's soda ash capacity by about 1,50,000 MT, salt production by 4,00,000 MT and upgrade turbines for higher efficiency.

To grow its specialty business, Tata Chemicals is considering entry into the lithium-ion battery sector to develop cell chemistries to meet Indian applications. The firm recently entered into an MOU with CSIR – CECRI (Central Electrochemical Research Institute),

Karaikudi to explore collaborative technology for scaling up of manufacturing cathode materials for lithium-ion cells.

R. Mukundan, managing director, Tata Chemicals, said, "With the intended expansion at Mithapur, we would substantially raise our manufacturing capacity of soda ash and edible salt by 20% and 40% respectively. This expansion will be achieved on energy from waste heat, solar and wind." "We are excited at the opportunities in the specialty business and are exploring a foray into lithium energy storage solutions. The market in India for these

applications could be 40-60 GWh by 2025, and we are in discussions with multiple technology and equipment providers," Mr. Mukundan said.

The company on Friday reported a consolidated net profit of ₹409 crore, up 17% from the same period last year on revenues of ₹2,961 crore, up 10% from the same period last year. On a standalone basis, the company reported a net profit of ₹295 crore, up 109% from the same period last year on standalone income of ₹1,014 crore, up 23% from the same period last year.

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said.

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As on September 30, 2018, the company's consolidated net debt was ₹2,180 crore. "We are pleased to share a good overall performance across all three businesses. India's basic chemistry products business continues to register a robust performance, due to operational efficiencies, a robust product mix and better realisations. On the global front, adverse impact

on North American operations was partially offset by better sales realisation," Mr. Mukundan

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## **CSIR-NGRI**

## 1<sup>st</sup> November, 2018

## Civic body bags first prize for water

## security

#### trnn | Nov 1, 2018, 04:00 IST

## 🖂 🔁 A- A+

Surat: The Surat Municipal Corporation (SMC) has added yet another feather in its cap by winning first prize at the annual water awards by Federation of Indian Chamber of Commerce and Industry (FICCI).

The award under FICCI's water mission will be awarded to SMC under the title 'water security' for taking various measures in water and wastewater sector.

The award will be presented to deputy mayor Nirav Shah by Union Minister for Water Resources, river development and Ganga Rejuvenation, Arjun Ram Meghwal et a corresponding New Delbi on Thursday.

at a ceremony in New Delhi on Thursday.

The FICCI water awarded were launched to promote awareness, policy advocacy, sharing of best practices and thought leadership in the area of water use efficiency.

Official sources said that the SMC has implemented various measures and efforts for water security in the Diamond City. Two new French wells of the 55 million litres per day (MLD) capacity are under construction and that tenders have been issued for the construction of six new French wells identified under the aquifer mapping survey conducted by the National Geophysical Research Institute (NGRI).

Talking with TOI, additional city engineer, KH Khatwani said, "We have adopted zero liquid discharge (ZLD) for treating waste water.

A 46 MLD plant is coming up in the city. Moreover, we are constructing two new 70 MLD tertiary treatment plant to treat waste water and supply to the industries"

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## Published in:

The Times of India

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## **DoNER to help S&T and CSIR to institutionalize the technical applications for job creation**

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**KNN India** 

A new Science Centre, the "Technology Facility Centre" (TFC) in the premises of the CSIR-North East Institute of Science & Technology (NEIST) in Jorhat, Assam, has been established by the the Ministry of Development of North Eastern Region (DoNER). DoNER has come forward to help the Department of Science and Technology (S&T) and Council of Scientific and Industrial Research (CSIR) to institutionalize the technical applications for promoting research as well as job creation, said Dr Jitendra Singh. Ministry of DoNER will bear the cost of setting up of the new Science Centre in Assam and has begun with allocation of Rs.40 crore for its construction. Speaking on the occasion, DoNER Minister Dr Jitendra Singh said that Northeast has vast scientific reserves waiting to be explored and I am happy that the Ministry of DoNER had come forward to help the Department of Science & Technology (S&T) and CSIR. He hoped that the new TFC will prove to be a boon for young aspiring youth and will emerge as a Center of Excellence for all the eight States of Northeast as well as the rest of India.

Dr Singh referred to "North-Eastern Region Community Resource Management Project" (NERCORMP) and "North East Rural Livelihood Project" (NERLP), the two programmes run by the Ministry of DoNER and NEC, which were devoted to the cause of improving livelihood opportunities for unemployed youth, farmers, women and artisans. He expressed the hope that the new Center will serve as a technical and interventional catalyst for fast-track growth, which could eventually enable the North Eastern States to equal the success rate of some of the western States of India.

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## Training on cultivation & processing of Lemongrass & Citronella held

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![](_page_23_Picture_4.jpeg)

CSIR-North East Institute of Science & Technology organised a one day training programme on "Cultivation & Processing of High-yielding Lemongrass and Citronella" at its office in Lamphelpat today. Retired Commissioner Dr RK Nimai graced the occasion as chief guest while Director of AYUSH Directorate Dr A Guneshwor, Department of Life Sciences, MU Professor P Kumar and CSIR-NEIST, Jorhat Assam Scientist Dr Mohan Lai and CSIR-NEIST Imphal Principal Scientist Dr Huidrom Birkumar also attended. A total of *52* people took part in the training programme.

Speaking on the occasion, Dr H Birkumar conveyed that lemongrass and citronella, which are high yielding plants, have been planted covering a total of 500 ha of land, last year. Sapormeina in Kangpokpi district, Jiribam, Reithelmanbi, Chanam Sendrok, Wangjing Tekcham Ching and Heirok Mamang Ching are the selected areas for plantation of these plants. Informing that necessary equipment has been set up at CSIR-NEIST Lamphelpat office to extract oil from these plants, Birkumar conveyed that the matured plants grown at Jiribam and Keithelmanbi have started arriving at the said office and due process of oil extraction has begun.

He stated that the plants mature within six months from the time of plantation. The Principal Scientist further informed that lemongrass plant can be used to make green tea, perfumes, cosmetic products, room spray and even for medicinal purposes while citronella plant can be used to make Phenyl solution, floor cleaner, deodorant etc. The training programme has been organised to demonstrate the steps of planting such plants and to provide an opportunity to the people to generate a sustainable income. Published in: FNB News

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