

# CSIR in Media



*75 Years of*

**CSIR Touching Lives**

**News Bulletin**

**20<sup>th</sup> to 30<sup>th</sup> June 2018**





## Solar Lotus inaugurated at Durgapur

CSIR-CMERI

30<sup>th</sup> June, 2018

A solar lotus was inaugurated at the CSIR-CMERI Colony Children Park in West Bengal's Durgapur recently. The solar lotus having a capacity of 3.6 KW has been designed and developed by CSIR-CMERI and can be installed at any place like in government offices, airport complex, city parks, resorts, luxury hotels, golf courses and others with a minimum ground area of one square meter to generate power for illumination. Ravi Prakash Tripathy, Member (Technical) of DVC Kolkata inaugurated the solar lotus.

Harish Hirani, director of CSIR-CMERI said that the in-built surveillance system of the solar lotus is very effective for watching the activities in any place from a distance through video surveillance technology and that high-resolution videos with in-built compression will allow footage to be analysed. Parents could also see the activities of their children inside the park complex from home or other places through this in-built surveillance system.

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[Times of India](#)



## Denied information on high-tech fighter jet equipment, India develops its own

CSIR-CSIO



*The technology, which CSIO started developing from scratch after the UK, USA, France and Israel declined to share it with India, was first adapted for the indigenous light combat aircraft Tejas.*

Any gaming aficionado would love it: A space age fighter jet cockpit with information on weapons locking systems, enemy planes and flight information flashing on the windshield. This high-tech system is likely to be adapted soon for fighter aircraft in India with technology developed indigenously. The head-up display (HUD) has been developed by the Central Scientific Instruments Organisation (CSIO) in Chandigarh, a constituent unit of the Council of Scientific & Industrial Research (CSIR). The technology, which CSIO started

29<sup>th</sup> June, 2018

developing from scratch after the UK, USA, France and Israel declined to share it with India, was first adapted for the indigenous light combat aircraft Tejas, says director, CSIO, Prof RK Sinha.

Now, a plot display unit (PDU) similar to HUD is being developed for BAE Systems Hawk, a British single-engine, jet-powered advanced trainer aircraft under licence manufacturing in India by Hindustan Aeronautics Limited (HAL).

A helmet mounted display for fighter aircraft and gun sight (enabling aiming of a gun accurately) for Dornier aircraft are also in the pipeline.

Dr Vinod Karar, chief scientist, optical devices and systems, heading the development of the PDU for the Hawk-i aircraft, said the CSIO was developing a customised low-profile unit.

Explaining why the technology developed for Tejas had an edge over its global competitors, he said it had multiple operational modes, including low visibility and standby sight



mode if a mission computer failed to guide and aid the pilot, high display brightness, high contrast ratio with maximum display luminance, high degree of accuracy and precision, wide field of view and no forced air cooling or internal fan for the heat generated in the system, resulting in reduction in cockpit noise for improved pilot comfort. A total of 68 such HUDs have been produced by CSIO Chandigarh and Bharat Electronics Limited, Panchkula. “Since the HUD is the prime flight display viewed by the pilot from his or her seat, its technology was denied to India. Hence, CSIO made its design and customised it to multiple aircraft platforms, in the process achieving design excellence, bringing India on the select list of countries who can design and manufacture the complex technology of HUD,” said the CSIO director.

The indigenous HUD is cheaper by Rs 40 lakh when compared to offerings by others. HUD variants had been developed for LCA Tejas for both the Indian Air Force and Navy and other aircraft. “Our design offers compact size, low weight and power consumption,” Prof Sinha added.

### **Understanding head-up display**

Flying a fighter aircraft at supersonic speeds is no easy task. Unlike conventional cockpits with traditional styled analog dials which diverted a pilot’s attention as he had to take his eyes off the skies to monitor flight information, the glass cockpit eases his workload by providing flight, aircraft and weapon information in his line of sight.

The windshield glass has a unique coating with material or combination of materials so as to reflect green wavelength, to which human eyes are most sensitive, while allowing a clear view ahead.

### **Other technologies being developed**

Gunsight for Dornier aircraft: CSIO is also developing a customised gunsight used for accurately aiming a weapon, for surveying and for sight setting on a particular range.



**Helmet mounted display for fighter aircraft:** The helmet mounted display is an advanced version of head-up display. It projects critical flight and aircraft information for the pilot through the helmet visor. Its proposed features and advantages include high off boresight (aligning barrel of a firearm with sight) capability for fighter aircraft, first-look, first-shoot, air-to-air visualisation, improvement in pilot situational awareness, faster target acquisition and improved system accuracy and less exposure time and better sensor cueing. CSIO is developing the technology in collaboration with a Defence Research and Development Organisation (DRDO) lab.

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[Hindustan Times](#)



## NRDC to establish ten outreach centres to engage with start-ups

CSIR

29<sup>th</sup> June, 2018

National Research Development Corporation (NRDC) will establish 10 outreach centres in the next one year to engage with start-up eco-system in India. These centres will be set up in a phased manner across ten locations. In the first phase, centres will be established in Hyderabad, Mumbai, Lucknow, Kolkata and Guwahati.

Chennai, Ahmedabad, Bhubaneswar, Chandigarh and Raipur will be covered in phase two. NRDC will accomplish this through the Council of Scientific and Industrial Research (CSIR) in these cities. H Purushotham, Chairman and Managing Director, NRDC, said, “We are looking for franchise who can scout and engage with entrepreneurs for using our technologies.” With these new initiatives, NRDC wants to improve the monetisation of their technologies and looking at entrepreneurs for achieving this. “Branding needs a lot of money that we do not have,” Purushotham said.

### Shifting focus

The organisation handles technology transfer for over 1,000 research institutions in the country. It has licensed close to 5000 technologies so far across different sectors such as healthcare, food, energy, water and sanitation. It has earned ₹70 crore through licensing and royalty fees in the last four years.

NRDC shifted its focus on start-ups after the launch of Start-up India initiative by the government. “Our approach to start-ups became more aggressive after the government implemented Start-up India policy,” Purushotham said. An incubation centre was established in NRDC campus, New Delhi. “We have shortlisted 30 start-ups, eight physical



start-ups and the rest on virtual mode that can be housed in the incubation centre,” he added. They will be provided technology support, mentoring, office space and seed funding of ₹10 lakh. The organisation had invested in three start-ups in the last five years and is planning to invest in three more this year with the focus on early stage start-ups. Purushotham said, “There is a special focus to foster start-up ecosystem in the North-East. The organisation already has partnership with Guwahati Biotech Park through which it plans to nurture local entrepreneurship.” NRDC has also partnered with All India Council for Technical Education (AICTE) to promote student start-ups in universities.

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[Business Line](#)



## NRDC pays royalty to DSIR and CSIR

CSIR-NPL

26<sup>th</sup> June, 2018

The National Research Development Corporation (NRDC) has paid ₹7.6 crore to the Department of Scientific and Industrial Research (DSIR) as royalty for commercialising their technologies to SMEs, start-ups and corporates for the year 2017-18.

The cheque was presented to Girish Sahni, Secretary, DSIR, by H Purushotham, CMD of NRDC at an event for the technology licensing agreement for the technology on 'recycling of waste plastic into useful tiles' developed by CSIR-NPL, New Delhi.

NRDC is engaged in commercialisation of Intellectual Properties, Technologies developed by various public funded R&D institutions under different ministries of the Central government. During the last 4 years it has paid ₹28 crores royalty to DSIR & CSIR, a press release stated.

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[Business Line](#)



## Green Ministry for use of tech to fight Air Pollution

CSIR-NPL

26<sup>th</sup> June, 2018

With air pollution becoming a major health problem across the country, the Environment Ministry is looking towards latest technologies to tackle the menace as well as improve the air quality.

On Monday, in a meeting chaired by Union Environment Secretary CK Mishra, it was decided that the Department of Science and Technology (DST) will take the lead on technology interventions for possible use before the onset of winter. They should provide the results of their assessments in 2 weeks, so that pilots could be quickly rolled out.

Similarly, an expert group will be constituted, which will provide its recommendation in a month's time on early warning system, including dissemination protocol and application of satellite based measurement for improving air quality information and management, said a statement here.

The National Physical Laboratory (CSIR-NPL) will be the certification agency for air quality measurement instruments. Certification of PM<sub>2.5</sub> and PM<sub>10</sub> volume samplers will commence from September.

The meeting also deliberated on likely use of satellite-based Aerosol Optical Depth (AOD) data for estimating ground based PM<sub>2.5</sub> levels, establishing early warning system and dissemination protocol to inform public and enforcing agencies about episodic high pollution events in advance, as per the statement.

**Published in:**  
[Daily Pioneer](#)



## Taking technology to the common man: CSIR-SERC

CSIR-SERC

25<sup>th</sup> June, 2018

Sign MoU for tech transfer for geopolymer concrete blocks which are a 'green alternative' For over a year now, the CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, has developed geopolymer concrete (GPC) building block technology.

“This technology will bring down the use of water necessary for curing and also time required for curing. It is a green alternative to cement since in the production of cement,” said P.S. Ambily, senior scientist, Advanced Materials Laboratory, SERC.

“For the production of each kilo of cement, 0.8 kilo of CO<sub>2</sub> is released into the atmosphere. Materials like flyash and slag are used in GPC as aggregate,” explained Mr. Ambily, whose team has developed the technology. Recently, during the institution's foundation day, the technology was transferred to Kiran Global Geocements Ltd, a private company, which is expected to begin commercial production shortly.

“Flyash obtained from thermal power stations that use coal, granulated slag from blast furnace (from steel plants) and geoactivator (which is a bonding agent) are the major materials that will go into making the blocks. Since alkaline materials are used, it will increase longevity. It will also bring down costs by at least 10%,” said S. Singaravelu, managing director of the company. Santhosh Kapuria, Director, CSIR- SERC said that GPC blocks can be extensively used in buildings, footpaths, parking lots and even in landscaping.

**Published in:**  
[The Hindu](#)



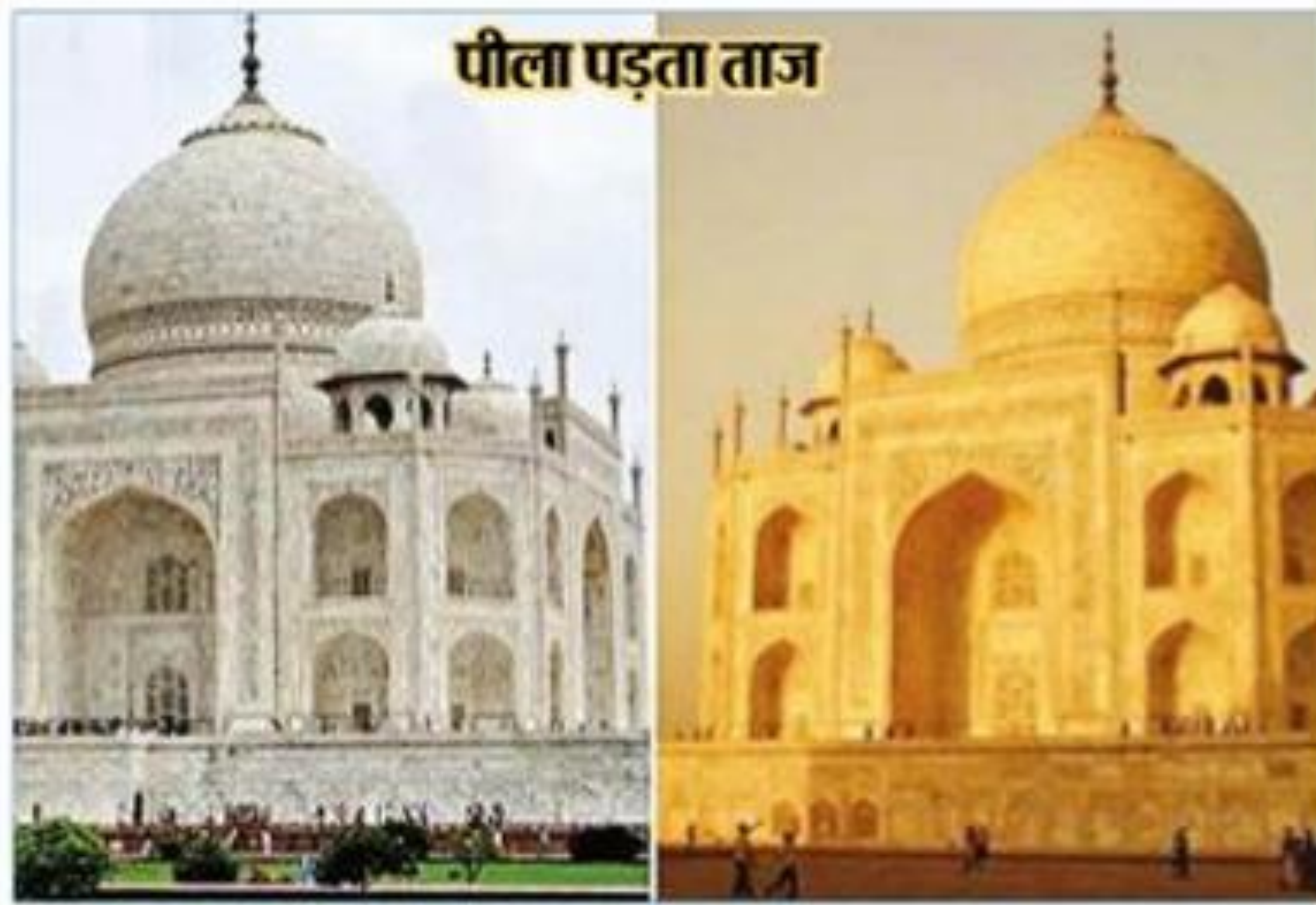
Platin.

# एनएमएल की खोज पर अमल होता, तो ताजमहल की खूबसूरती पर नहीं आता संकट 'कूपोला फर्नेस' तकनीक का नहीं किया गया प्रयोग

- 15 साल पहले एनएमएल ने खोजी थी प्रदूषण से बचाने की तकनीक
- सरकार को दिया गया था फॉर्मूला, यूपी सरकार ने नहीं किया लागू

संवाददाता ▶ जमशेदपुर

ताजमहल की खूबसूरती एक बार फिर खतरों में पड़ती दिख रही है. पर्यावरणविद से लेकर आर्कियोलॉजिकल सर्वे ऑफ इंडिया तक इसको लेकर चिंतित हैं. लेकिन हकीकत यह है कि करीब 15 साल पहले जमशेदपुर के एनएमएल (नेशनल मेटलर्जिकल लैबोरेटोरी) ने



पीला पड़ता ताज

ताजमहल की खूबसूरती को बचाने के लिए मुहिम चलते हुए वहां के प्रदूषण को रोकने के लिए एक तकनीक की खोज की थी. इस तकनीक को

तत्कालीन उत्तर प्रदेश की सरकार को भी साझा किया गया था. लेकिन आज तक इसको लागू नहीं किया गया और हालात यह है कि लगातार ताजमहल

रिपोर्ट में यह कहा गया था

## लोपिट कोयले का इस्तेमाल रोकना होगा

एनएमएल ने अपनी रिपोर्ट में कहा था कि ताजमहल के आस-पास की छोटी औद्योगिक इकाइयों को शिफ्ट कर दिया जाना चाहिए. वहां लोपिट कोयले का इस्तेमाल किया जाता है, जिसके कारण वहां हाइड्रोजन सल्फाइड पैदा होता है. कम गुणवत्ता का कोयला वहां सरस्ता मिलता है. सल्फर जब हवा में होता है, तो वह रात के कठ एसिड रेन के रूप में गिरता है. इसके बदले यदि स्थानीय औद्योगिक इकाइयों उच्च क्वालिटी का कोयला इस्तेमाल करें, तो नुकसान को कम किया जा सकता है. एनएमएल द्वारा विशेष रूप से डिजाइन की गयी कूपोला (फर्नेस) तकनीक तैयार की गयी है. कूपोला का इस्तेमाल गैस के माध्यम से होगा. इससे प्रदूषण कम होगा और ताजमहल की चमक भी बरकरार रहेगी.

सफेद से पीला होता नजर आ रहा है. वर्मामाईस स्थित सीएसआइआर-एनएमएल ने ताजमहल पर चढ़ रही पीली परत को रोकने के लिए 'कूपोला

फर्नेस' तकनीक का अविष्कार किया था. यह तकनीक कुछ महंगी और मानदंडों के अनुरूप थी, जिसके कारण उसे वहां के उद्योगियों ने लागू नहीं किया.

... तो ताजमहल ठीक रहता

सामाजिक दायित्वों के तहत एनएमएल ने यह खोज की थी. करीब 15 साल पहले ताजमहल की चमक को बरकरार रखने और प्रदूषण को रोकने के लिए यह तकनीक विकसित की गयी थी. कूपोला तकनीक का इस्तेमाल किया जा सकता था. एनएमएल की तकनीक काफ़ी कारगर है. इसको अमल में लाया जा सकता था.

डॉ इंद्रणील चट्टोराज, डायरेक्टर, सीएसआइआर-एनएमएल, वर्मामाईस.

सरकार और पर्यावरण विभाग ने भी इस दिशा में कोई ठोस कदम नहीं उठाया, जिसके कारण ताजमहल के आस-पास प्रदूषण को कम नहीं हो पा रहा है.

## भाजपा का पोल-खोल अभियान और लाभार्थी सम्मेलन आज

जमशेदपुर. भूमि अधिग्रहण बिल को लेकर राज्य सरकार और भाजपा के विरुद्ध विपक्ष द्वारा फैलाये जा रहे भ्रम के खिलाफ सोमवार को महानगर भाजपा के सभी मंडल में भाजपा कार्यकर्ता धरना पर बैठेंगे. मंडल अध्यक्षों के नेतृत्व में प्रमुख चौक-चौराहों पर विपक्ष का पोल-खोल अभियान चलाया जायेगा और विपक्ष की विकास विरोधी राजनीति का पोल खोला जायेगा. धरना में खूंटों की घटना पर मौन धारण करने वाले दलों की सच्चाई भी लोगों के समक्ष रखी जायेगी. महानगर अध्यक्ष दिनेश कुमार ने सभी मंडल अध्यक्षों को धरना-प्रदर्शन करने का निर्देश दिया है. शाम में सिदगोड़ा टाउन हॉल में पूर्वी विधान सभा स्तरीय लाभार्थियों का सम्मेलन आयोजित किया जायेगा. जिसमें मुख्य अतिथि सांसद विद्युत वरण महतो, खादी बोर्ड के अध्यक्ष संजय सेठ मौजूद रहेंगे.

Published in:

Prabhat Khabar, Page no. 4



## CSIR-CFTRI Students Symposium Registration Open

CSIR-CFTRI

24<sup>th</sup> June, 2018

Mysuru: The CSIR- Central Food Technological Research Institute (CFTRI), Mysuru, is playing host to a unique symposium on Advances in Biological Research to be held on July 13. The CSIR-CFTRI-Students-Symposium (CCSS) is organised with support from Association of Food Scientists & Technologists (India). The event is being conceived, managed and organised by the young researchers of the Institute. The prime objective of CCSS is to provide an opportunity for a close interaction of scientists and scholars, with varied interests in diverse field of Biology. This will also provide a forum for in-depth assessment of challenges involved in researches pertaining to biology.

Participation is open to all Ph.D scholars, who are pursuing research in Biological Sciences in CSIR-CFTRI and University of Mysore. Registration is open till June 25. There is also an opportunity for youngsters to present their research in curated talks before the audience.

Interested may e-mail their queries to [ccssjuly2018@gmail.com](mailto:ccssjuly2018@gmail.com) or contact CCSS-2018 Organising Secretary V.P. Mahendra on Mob: 74119-05072 or Convener Abdul Majid on Mob: 88925-88380.

**Published in:**  
[Star of Mysore](#)



## Tamil Nadu students bag top spots at smart India Hackathon

CSIR-CSIO

24<sup>th</sup> June, 2018



Tamil Nadu students bagged the top three spots at Smart India Hackathon 2018, the five-day grand finale of which, concluded at Indo-Swiss Training Centre CSIR-CSIO here on Friday. While team Brainstromer Troopers won the Smart India Hackathon 2018 – Hardware edition for their idea of an Asthma trigger detection system, Team Techeee 1 bagged the award for first runner up for a non-invasive measurement of haemoglobin and glucose. Both the teams are from Sri Sivasubramaniya Nadar College of Engineering, Chennai. Team Imed Dispenser from Kumaraguru College of Technology, Tamil Nadu, was the second runner-up. As many as 13 teams with six participants each from various

colleges of India participated in the grand finale. This year's theme was innovative medical devices, healthcare and biosensing technologies. Winning team Brainstorm Troopers, led by Indulakshmi, was honoured with a cash prize of Rs 1 lakh for its idea of an Asthma trigger detection system, a portable device, which can detect the level of air contamination of any place. First runner-up Vignesh R's team Techeee 1 was awarded the cash prize of Rs 75,000 for a non-invasive measurement of haemoglobin and glucose by using near infrared spectroscopy. The second runner-up, Sreeja Prabhakar's team Imed Dispenser got the cash prize of Rs 50,000 for a medicine-dispensing kiosk linked with Aadhaar. Chief guest A R Rao, Director of National Institute of Pharmaceutical Education and Research, congratulated the winners and asked the participants to make such innovative medical devices that would be affordable for everyone. "SIH 2018 has provided a platform for technical students to demonstrate their



innovative ideas and I am confident that all the participants and mentors will continue with their scientific research at their respective organisations and will help our country achieve sustainable economic and social growth in the coming years,” said R K Sinha, Director of CSIR-CSIO.

**Published in:**  
[The Indian Express](#)



## Maithri Aquatech inks MoU with CSIR-IICT

CSIR-IICT

24<sup>th</sup> June, 2018

CSIR-IICT has signed an MoU with Maithri Aquatech Pvt Ltd to make a low-cost atmospheric water generator (AWG) with indigenous technology inputs.

AWG is an eco-friendly source of freshwater, which uses heat exchange for condensing moisture from the atmosphere. It is estimated that every litre of water extracted from an AWG conserves two litres from surface or ground sources.

The IICT-Maithri Aquatech collaboration hopes to fabricate the first unit of 1,000 litres/day and launch it in August. Subsequently, they will take up production in larger numbers to be set up in rural and coastal areas to benefit populations in regions where it is required the most, say Arun Tiwari of CARE Foundation and S Chandrasekhar, Director of IICT, who are piloting the project.

**Published in:**  
[Business Line](#)



## IICT ties up with Hyderabad-based firm to develop AWG's

CSIR-IICT

23<sup>rd</sup> June, 2018



Indian Institute of Chemical Technology (CSIR-IICT) on Friday announced its collaboration with Hyderabad-based Maithri Aquatech Private Limited to develop low-cost indigenous Atmospheric Water Generators (AWG), a device that can extract water from the humid ambient air. The first unit of 1000 litres per day capacity AWG is expected to be launched this August, which coincides with platinum jubilee celebrations of IICT. The AWG machine will be named as 'Meghdoot' according to a press release. IICT officials said that the aim is to develop AWG with an improved design of critical parts like compressor, condenser and evaporator with

the system to be operated on solar power to minimize operating costs. The project also involves the development of a flow process for online remineralisation of water to potable quality in terms of total dissolved solids (TDS) through fortification with essential salts, according to a press release. CSIR-IICT's indigenous ultrafiltration technology would be applied for clarification and disinfection of the water for drinking purpose whereas specific resin columns would be incorporated for producing pharma and medical grade water. Subsequently, the units are expected to be produced on a large scale for remote villages, coastal regions and border areas to benefit the rural population, medical centres and Indian soldiers. This project is a brainchild of the famous author Arun Tiwari, and CSIR-IICT Director, Dr S Chandrasekhar, who has always believed in development of science and technology for the benefit of the masses.

**Published in:**  
[Telangana Today](#)



# सीएसआईआर के वैज्ञानिक प्लास्टिक के ईट, पिलर और टाइल से आवास बनाने में जुटे गरीबों के लिए लखटकिया घर

सौगात

नई दिल्ली | मदन जैड़ा

वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद (सीएसआईआर) के वैज्ञानिक गरीब लोगों को आवास उपलब्ध कराने के लिए एक लाख रुपये कीमत का घर विकसित करने में जुटे हैं। इस घर की खूबी यह भी होगी कि इसे सामान की तरह ही एक स्थान से दूसरे स्थान तक ले जाया जा सकेगा।

**एनपीएल का प्रोजेक्ट :** सीएसआईआर की भौतिक विज्ञान प्रयोगशाला (एनपीएल) के निदेशक डॉक्टर डीके अस्वाल ने बताया कि राष्ट्रीय भवन अनुसंधान संस्थान रुड़की के साथ मिलकर इस प्रोजेक्ट पर कार्य शुरू किया गया है।

हमारे कोशिश है कि करीब 350 वर्ग फीट का घर गरीबों को एक लाख रुपये के भीतर उपलब्ध हो जाए। इस घर में सीमेंट, ईट, रेत का इस्तेमाल नहीं होगा। इसमें प्लास्टिक की ईट, टाइल और पिलर लगेंगे जिसको तकनीक भी एनपीएल ने विकसित की है।



सीएसआईआर गरीबों के लिए कुछ इस तरह के घर को तैयार कर रहा है। • एनपीएल

## राख और रसायन मिलाकर प्लास्टिक की टाइल्स बनाई

अस्वाल के अनुसार एनपीएल ने प्लास्टिक के कचरे को प्रोसेस करके उसमें काई किस्म की राख और रसायन मिलाकर प्लास्टिक की टाइल्स बनाई हैं। ये ईट और पिलर के रूप में भी हैं। छत के रूप में भी इन्हें विकसित किया गया है। यह तकनीकी एनपीएल ने छार कंपनियों को सौंपी है और कुछ कंपनियां इन उत्पादों को बाजार में ला चुकी हैं।



## भूकंप और अग्निसोधी होगा मकान

प्लास्टिक से बनी ये टाइल्स कभी न टूटने वाली और अग्निसोधी भी है। इनसे बनने वाला घर पूरी तरह भूकंप सोधी होगा। उसे इस तरह से जमीन में फिट किया जाएगा कि तूफान में भी सुरक्षित रहेगा।

## एक जगह से दूरी जगह ले जा सकेंगे

इस तकनीक से बने मकान में लगी स्लामरी को खोला जा सकेगा। यदि कोई किसी स्थान को छोड़कर जाना चाहता है तो वह इस घर को अपने साथ ले जा सकता है। अस्वाल के अनुसार अस्थाई घरों, झोपड़ पट्टी में रहने वाली के लिए यह तकनीक बरदान साबित होगी। दूसरे भूकंप संभावित क्षेत्रों तथा पर्यटन इलाकों जहां तेज हवाएं चलती हैं या सामान की दूल्हा संभव नहीं है वहां भी ये घर उपयोगी साबित होंगे।

## प्रदूषण की समस्या दूर होगी

डॉक्टर डीके अस्वाल ने उम्मीद जताई कि इस प्रोजेक्ट से एक फायदा यह होगा कि लोग प्लास्टिक के कचरे को फैकन की बजाय बेचना शुरू करेंगे। इससे प्लास्टिक प्रदूषण की समस्या भी खत्म होगी। उन्होंने कहा कि प्रोजेक्ट पूरा होने के बाद सीएसआईआर तकनीक के प्रदर्शन के लिए कुछ स्थानों पर ऐसे घर बनाकर प्रदर्शित करेगा।



## Don't go for cheap products, investors n solar power told

CSIR-CMERI

22<sup>nd</sup> June, 2018

Solar power specialists on Friday exhorted industries, institutions, hospitals and commercial organisations intending to switch over to clean energy to apply their minds thoroughly before choosing cheaply available products.

Addressing participants at an awareness programme on Alternate Energy organised jointly by Entrepreneurship Development And Innovation Institute(EDII), Chennai and Tiruchi District Tiny and Small Scale Industries' Association, Arun Rebero, Director, Contura Solar (India) Pvt. Ltd., and Harish Amirthakasi, Director - Commercial Management, Baby Engineering Pvt. Ltd., exhorted them to refrain from viewing solar energy generation through the prism of price-sensitivity, and to opt for quality products for sustained generation without any system failure.

Infusing quality consciousness is vital at this juncture. Robust operation of German solar generation system with remote monitoring installed in a hospital in Pudukottai district was explained to the participants. The participants were encouraged to avail the utility of the concessions offered by Tamil Nadu Energy Development Agency (TEDA) to commercial and non-commercial organisations, Mr. Arun Rebero said.

Mr. Harish Amirthakasi explained the utility of installing solar trees. Solar power tree developed by CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI), a constituent laboratory of Council of Scientific and Industrial Research (CSIR), was launched during 2016 by Union Minister for Science and Technology and Earth Sciences Harsh Vardhan.



According to the organisers, the awareness programme was launched to explore the opportunity that needs to be tapped in the backdrop of the Central Government fixing solar power target to one lakh MW by 2022.

So far, the country has crossed 22,000 MW production. There are only four years left for realising the rest of the target, Mr. Arun Rebero said.

In future, there will be enormous scope in tapping business opportunities in view of the suitability of solar power for e-vehicles. Solar sheds could be erected in the parking space for decentralised charging, he said.

**Published in:**

[The Hindu](#)



CSIR-CBRI

22<sup>nd</sup> June, 2018

# योग से बताया निरोगी काया का मंत्र

सीबीआरआई में पतंजलि योगपीठ के योग प्रशिक्षक ने दिया कार्मिकों को योग का प्रशिक्षण

अमर उजाला ब्यूरो

रुड़की। स्वस्थ शरीर निरोगी काया के मूल मंत्र को जीवन का मूल बनाने के उद्देश्य से बृहस्पतिवार को सीबीआरआई में योग दिवस कार्यक्रम आयोजित किया गया। इसमें पतंजलि योगपीठ के वरिष्ठ योग प्रशिक्षक योगाचार्य डॉ. संजय योगी ने संस्थान के कार्मिकों और कर्मचारियों को योग प्रशिक्षण दिया। कार्यक्रम का शुभारंभ योग गीत के साथ हुआ। मुख्य वैज्ञानिक डॉ. सुवीर सिंह ने योग का महत्व बताया। वरिष्ठ प्रधान वैज्ञानिक डॉ. अतुल अग्रवाल ने कार्यक्रम का संचालन किया। योग कार्यक्रम में केंद्रीय विद्यालय नंबर एक तथा रुड़की के सैकड़ों विद्यार्थियों ने हिस्सा लिया। इस दौरान डॉ. आभा मित्तल, रश्मि राठौर, विनोद कुमार, पलक गोयल, सोहराब खान, अर्चना, अमन, सी कुजूर आदि मौजूद रहे।



सीबीआरआई में योग दिवस पर आयोजित योग शिविर में भाग लेते संस्थान के अधिकारी व कर्मचारी।

**Published in:**

Amar Ujala, Page no. 4



CSIR-NBRI

22<sup>nd</sup> June, 2018

## योग के बाद आयुर्वेद का दीवाना होगा अमेरिका

जागरण ब्यूरो, नई दिल्ली : योग के बाद अब आयुर्वेद को भी अमेरिका में लोकप्रिय बनाने की कोशिश शुरू हो गई है। इसके तहत शुक्रवार से कैलीफोर्निया में आयुर्वेदिक दवाओं और उसके प्रभावों पर विशाल समागम होने जा रहा है। दरअसल जीवन शैली से जुड़ी बीमारियों के इलाज में आयुर्वेदिक दवाओं की गुणवत्ता साबित होने के बाद लोगों का इसके प्रति तेजी से रुझान बढ़ा है।

आयुष मंत्रालय के एक वरिष्ठ अधिकारी ने कहा कि कैलिफोर्निया में हो रहे इंडो-यूएस वेलनेस समागम में बड़ी संख्या में आयुर्वेद से जुड़े भारतीय संस्थान, कंपनियां और विशेषज्ञ हिस्सा ले रहे हैं। तीन दिन तक चलने वाले समागम में आयुर्वेद, योग, हर्बल, प्राकृतिक चिकित्सा से जुड़े भारतीय उत्पादों की प्रदर्शनी के साथ विशेषज्ञ लोगों को आयुर्वेद की अहमियत भी बताएंगे। खास बात यह है कि इस समागम का आयोजन अमेरिकी एजेंसियों की ओर से किया जा



रहा है जिसमें आयुष मंत्रालय सहयोगी है। इस समागम में भारतीय कंपनियों को अपनी दवाएं एवं पोषक उत्पादों को प्रदर्शित करने का मौका मिलेगा। उन्होंने कहा कि अभी तक अधिकांश दवाओं की खोज अमेरिका समेत पश्चिमी देशों में होती थी और भारत में लोग उसका सेवन करते थे। लेकिन इस बार सीएसआइआर द्वारा विकसित डायबटीज की दवा बीजीआर-34 को अमेरिका में प्रदर्शित किया जाएगा। अमेरिका में तीन करोड़ मधुमेह रोगी हैं तथा वे मधुमेह के इलाज के लिए आयुर्वेद, प्राकृतिक चिकित्सा और योग को वैकल्पिक उपचार के रूप में अपना रहे हैं।

दैनिक जागरण/22-6-18

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CSIR-NBRI

22<sup>nd</sup> June, 2018



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CSIR-NBRI

21<sup>st</sup> June, 2018



### राष्ट्रीय वनस्पति अनुसंधान संस्थान में हिन्दी प्रशिक्षण कार्यक्रम आयोजित



**लखनऊ:** सीएसआईआर-राष्ट्रीय वनस्पति अनुसंधान संस्थान में राजभाषा कार्यान्वयन समिति के द्वारा एक हिन्दी प्रशिक्षण कार्यक्रम का आयोजन किया गया। इस अवसर पर डॉ. (श्रीमती) आशा रानी त्रिपाठी, भूतपूर्व विभागाध्यक्ष, हिंदी एवं संस्कृत विभाग, शंकर देव कॉलेज, शिलांग मुख्य अतिथि के रूप में उपस्थित थीं। कार्यक्रम का आरंभ मुख्य अतिथि द्वारा दीप प्रज्ज्वलन के साथ हुआ।

मुख्य अतिथि डॉ त्रिपाठी ने 'हिन्दी लेखन में वर्णों एवं वर्तनी की होने वाली सामान्य अशुद्धियाँ' विषय पर आधारित अपने संबोधन में उपस्थित वैज्ञानिकों एवं कर्मचारियों को राजभाषा हिन्दी में कार्य करने में होने वाली भाषागत अशुद्धियों से अवगत कराया। उन्होंने कहा कि हिन्दी में कार्य करते समय अक्सर भाषागत नियमों की जानकारी न होने से लेखन में अशुद्धियाँ होती हैं जिनसे न सिर्फ लेखन अटपटा प्रतीत होता है साथ ही भाव परिवर्तन हो जाने से लिखी गई बात के अर्थ तक बादल जाते हैं। डॉ त्रिपाठी ने व्याकरण के स्वरूप एवं आवश्यकता का परिचय देते हुए शब्दों एवं वाक्य संरचना में होने वाली सामान्य अशुद्धियों पर विस्तार से चर्चा की।

इसके पूर्व संस्थान के वरिष्ठ वैज्ञानिक डॉ आर एस कटियार ने अपने स्वागत उद्बोधन में मुख्य अतिथि एवं उपस्थित जनों का स्वागत करते हुए समस्त कर्मचारियों से राजभाषा हिन्दी में अधिक से अधिक कार्य करने का आवाहन किया। कार्यक्रम के अंत में राजभाषा समिति के सदस्य सचिव श्री आनंद प्रकाश द्वारा उपस्थित जनों को धन्यवाद दिया गया। इस अवसर पर संस्थान के हिंदी अधिकारी बिजेन्द्र सिंह, एवं वरिष्ठ वैज्ञानिक गण डॉ. एसके तिवारी, डॉ. पीए शर्के, डॉ. संजीव ओझा आदि उपस्थित थे।

**Published in:**

**Saamna Activist**



CSIR-NAL

21<sup>st</sup> June, 2018

## Look who's getting the weed in Ulsoor Lake

Thursday, June 21, 2018

Hemanth CS  
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**T**he onset of the monsoon has led to heavy downpour in the city over the last few days. Heavy rain also resulted in the accumulation of weeds in Ulsoor Lake, which has been cleared using an airboat developed by National Aerospace Laboratories (NAL). The first-of-its-kind boat, yet to be fully developed has been stationed at the Ulsoor Lake as part of the ongoing trial. Authorities have pressed the boat into service to pluck the weed and scoop away the floating waste from the lake.

"Heavy rain over the last few days has led to accumulation of weeds in the lake. Also, mounds of garbage



entered the lake from the adjoining Ganesha immersion area. Along with the Madras Engineer Group and Centre (MEG) personnel, our airboat

was used to clear weeds and waste from the lake," NAL scientist T Karthikeyan told BM.

Karthikeyan said that weeds were

**“During the drive, MEG deployed around 30-40 personnel. The main aim of developing the boat is to minimise the use of human beings**

—T Karthikeyan, scientist cleared from the lake over a period of 10 days and that the airboat was successful in carrying out the task given to it.

"During the clean-up drive, MEG deployed around 30-40 personnel. The main aim of developing the boat with an air-propelled ferry system is to minimise the use of human beings in the dewatering and maintenance activity," Karthikeyan said.

The airboat, powered by a Maruti 800 engine, has a hydraulic system-based scoop and saw-toothed, sliding weed-cutters at the front. It also has a flat-bottom hull.

Last year, NAL successfully demonstrated all the functionalities of the system. Now having cleared the weeds from the lake, Karthikeyan said that NAL was looking to develop a more power and bigger boat for which it plans to approach the state government for funds.

"We can improve the system with a lot more funding from the state government. Government agencies like BBMP and BDA can make use of the airboats to clean up water bodies like Bellandur Lake which has been frothing because of excessive pollution levels," the senior scientist added.

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## Industrial pollution in Kanpur: NGT directs CSIR to submit analysis reports of water, soil

CSIR-IITR

20<sup>th</sup> June, 2018

The National Green Tribunal today directed the Council of Scientific and Industrial Research (CSIR) to submit analysis reports of water and soil samples near three industries in Kanpur. A vacation bench headed by Justice Raghuvendra Rathore also directed CSIR-Indian Institute of Toxicology Research in Lucknow to place on record the estimate on expenses which may be incurred for the specialised study.

"The institute (CSIR) has mentioned about the requisite period to conduct the study about various impacts of the industry on water, soil, human health and environment which according to them needs five studies to be conducted and would take around six months to submit the report. However, the institute has further stated that analysis of water and soil sample from the same point, as collected by the Indian Council of Agricultural Research (ICAR), may be submitted by July 2, 2018.

"In view of the above, we are of the view that presently the institute may send the analysis report of water and soil samples along with its opinion, before July 4, the next date of hearing," the bench said. The tribunal was hearing a plea filed by BJP MP Devendra Singh Bhole seeking action against Mahadev Paper Mill, P R Industries and Ganesh Polymers Ltd in Kanpur for allegedly causing pollution.

The lawmaker had contended in his letter to the NGT that various complaints were made to district magistrate of Kanpur and the state pollution control board yet "nothing concrete" came out. The green panel had earlier ordered joint inspection by the Central Pollution Control Board and state pollution control board and directed them to submit analysis report.



Later, the joint team had recommended that services of expert institutions like ICAR or Indian Institute of Toxicology Research can be undertaken for a detailed survey to find out impact of the pollution caused by these industries.

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[Business Standard](#)





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