CSIR IN MEDIA

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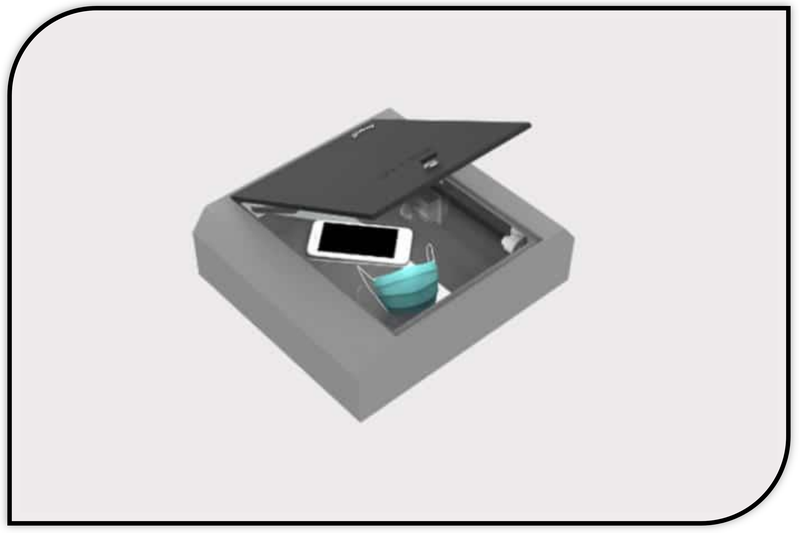


Produced by Science Communication and Dissemination Directorate, (SCDD), CSIR, Anusandhan Bhawan, New Delhi

CSIR-NEERI

20th July, 2020

CSIR-NEERI holds webinar on rejuvenation of wastelands

■ Staff Reporter

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) organised a webinar on 'Rejuvenation of degraded and waste lands' in memory of Dr Ashok S Juwarkar, renowned former scientist of CSIR-NEERI and land rejuvenation expert.

Dr Nitin Pandit, Director, Ashoka Trust for Research in Ecology and Environment (ATREE), Bengaluru; Umakant, Joint Secretary, Department of Land Resources, Union Ministry of Rural Development; Dr G G Manekar, General Manager (Mine-Planning), MOIL Limited; Vinaay Bedekar, Senior Manager (Sustainability & EHS), Mahindra Vehicle Manufacturers Ltd, were the guest speakers.

Dr Pandit informed that India had revised its land restoration target to 26 million hectares from previously set target of 21 million hectares in the recently held United Nations Convention to combat desertification. He briefed about strategy for creating an additional carbon sink of 2.5-3 billion tonnes of carbon dioxide that would be sequestered by restoring the degraded lands as per the Paris agreement. Expressing concern over the prospect of developing solar photovoltaics (PV) technologies on degraded lands, he said that all 'wastelands' were not degraded lands. "We need to revisit the definition of wastelands and wastelands classification system," he said.

Citing an example of wastelands in Maharashtra, Dr Pandit said that, Satara and Karad had the habitat of critically endangered black buck species. He advocated due caution in setting standards and policies for restoration of degraded lands. Choosing the right sites is important in restoration of degraded lands for building resilience and benefiting livelihoods, he added. He pointed out that, land application of biosolids, the end product of wastewater treatment, which were rich in organic matter and plant nutrients, could be a better option for rejuvenating wastelands. CSIR-NEERI should explore the use of biosolids to enhance productivity of degraded lands, he added.

Dr Manekar outlined various scientific and technological interventions of CSIR-NEERI instrumental in restoring degraded sites at MOIL Ltd. He also applauded contribution of CSIR-NEERI in sewage treatment and water management. He paid tribute to Dr Ashok S Juwarkar and said that his contribution was unforgettable. Bedekar illustrated High Rate Transpiration System, a technological solution provided by CSIR-NEERI to Mahindra Vehicle Manufacturers Ltd, Pune, for treatment and safe disposal of its effluent.

He also spoke on combination of HRTS and rainwater harvesting system to create alternate source of water for plant operations and simultaneously treat the effluent for safe disposal as per the norms.

Earlier, in his welcome address, Dr Rakesh Kumar, Director of CSIR-NEERI, highlighted NEERI's contribution in land rejuvenation. He also spoke on significant contributions of Late Dr Ashok S Juwarkar in the area of land rejuvenation.

Also, he spoke of various initiatives taken by CSIR-NEERI, including conversion of wastelands into productive lands in rural areas by bamboo plantation, and in restoration of fly ash dump sites.

Prakash Kumbhare conducted the proceedings and Asheesh Sharma provided support for seamless transmission of the event.

India has restored 23 million hectare of degraded land: Umakant

UMAKANT, Joint Secretary, Department of Land Resources, Union Ministry of Rural Development, said that, India had so far restored 23 million hectares of degraded land whereas the international commitment is 26 million hectares. He affirmed that, wastelands and degraded lands could play an important role in the Indian economy as 40 per cent of population was based on wastelands or degraded lands. Cost benefit analysis and scientific inputs could play a vital role in formulation of effective policies for restoration of wastelands and degraded lands, he asserted. Describing the quantum of work done by State Governments under the guidance of Central Government, he informed the audience that since 2014-15, approximately 7 lakh water harvesting structures had been created and additional area of 14.55 hectares had been brought under protective irrigation. Umakant urged CSIR-NEERI scientists to work with IUCN to develop internationally acceptable and verifiable metrics to assess degraded lands and wastelands. He also briefed about 'Wastelands Atlas' brought out by Ministry of Rural Development to effectively assist in rolling back wastelands for productive use through various land development schemes and programmes. He mentioned the salient features of integrated watershed management programme launched to restore ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover, water.

Published in:
The Hitvada

CSIR-CMERI, Durgapur, Unveils The COVID Protection System (COPS) For Workplace

CSIR-CMERI

19th July, 2020

CSIR-CMERI, Durgapur, unveiled the COVID Protection System (COPS) for workplace as a game-changer in the current pandemic scenario, Prof. (Dr.) Harish Hirani, Director, CSIR-CMERI said. Dr.Hirani further stated that "CSIR-CMERI, Durgapur, aims to support and align the Start-Ups and Entrepreneurs while developing its technologies to give boost to their aspirations and give them a platform to showcase their Innovative potential. CSIR-CMERI, Durgapur, unveiled the COVID Protection System (COPS) for workplace as a game-changer in the current pandemic scenario, Prof. (Dr.) Harish Hirani, Director, CSIR-CMERI said. Dr.Hirani further stated that

"CSIR-CMERI, Durgapur, aims to support and align the Start-Ups and Entrepreneurs while developing its technologies to give boost to their aspirations and give them a platform to showcase their Innovative potential.

COPS is a conglomeration of these technologies:

Solar Based Intelligent Mask Automated Dispensing Unit cum Thermal Scanner (IntelliMAST): The Solar Based IntelliMAST is an Intelligent surveillance kiosk which identifies the body temperature and whether an individual is wearing Face Mask or not through customised Software solutions.

The information about an employee not wearing a Face Mask is provided to the Administration for Cashless delivery of the Mask and later deduction of the price from the Salary. In this regard the system harnesses Internet-of-Things in a seamless manner. The in-built Thermal Scanner detects probable rise in Body Temperature through forehead scanning and audio visual alert the Security Guards.

The IntelliMAST will help ensure safety of supervising staff and implementation of precautionary measure in any large organisation. The IntelliMAST will also facilitate Identity Card based Mask Dispensing & Attendance System.

Facial Recognition based &ID Card based Attendance System will be incorporated into the system in the near future and therefore may act as a comprehensive solution for Office & Industrial Complexes as well as School & College campuses.

Published in:
Republic World

POSHAN Mission to reduce micro-nutrient deficiencies in children in HP's Kangra

CSIR-IHBT 19th July, 2020

District Administration Kangra, in collaboration with the CSIR-IHBT, Palampur, is starting an innovative pilot project under the POSHAN Mission to reduce the micro-nutrient deficiencies in children in the age group of 3 to 6 years. Deputy Commissioner, Kangra, Rakesh Kumar Prajapati said that the project proposal has been formulated by Dr Vidyashankar Srivatsan, Scientist, CSIR-IHBT, Rashi Singh, District Lead, India Nutrition Mission, Tata Trusts and Mr. Raghav Sharma, IAS, Additional Deputy Commissioner, Kangra. He said that the State Government is providing supplementary nutrition to the children attending the Anganwari Centers in the form of nutrimix, biscuits, sweet rice and dalia, however, the majority of nutrition of children comes through dietary items used by the families.

The rationale of the project is that generally the locally consumed diets contain low levels of critical micronutrients like Iron, Zinc, Vitamin A, Vitamin B12 and Vitamin C and therefore it is necessary to supplement the meals with micronutrients to promote growth in children, he added. Parents also do not have awareness about micronutrients and their role in child growth. He said that in order to address this problem, the pilot project will involve a survey on the nutritional quality and diet pattern of children aged between 3 to 6 years in the selected area of Panchrukhi Block of District Kangra where seven Panchayats with 20 Anganwari Centres will be covered under it. The Panchayats which are going to be covered are Barmat, Banuri, Rajpur, Parla Tanda, Panchrukhi, Holta and Tanda.

Thereafter, micronutrient fortified foods will be provided to a target group of 100 children from these selected 20 Anganwari Centres and their growth will be monitored to evaluate the impact of micronutrient fortification. The distribution of ready to eat and reconstitute food products will be monitored and supervised by the Child Development Project Officer of the concerned area.

The project has been approved by the State Convergence Committee under the Innovation component of POSHAN Mission with a cost of Rs 10.60 lakhs. If positive results emerge from the pilot project, it may be scaled up. POSHAN is a flagship programme of the Union Government to improve the nutritional outcomes for children and pregnant /lactating mothers.

Published in:
United News of India

Umifenovir: Odia Researcher Aditya Kumar Padhi part of group trying to find Covid-19 drug

CSIR-CDRI 19th July, 2020

Three researchers, including an Odia youth Aditya Kumar Padhi has conducted a study on the effectiveness of a particular drug in the case of COVID-19 patients with mild or moderate symptoms. Padhi (32) is a post-doctoral research fellow at Centre for Biosystems Dynamics Research, RIKEN, Japan and the other researchers are Aniruddha Seal, an MSc student of NISER, Bhubaneswar and Timir Tripathi, an assistant professor in North-Eastern Hill University, Shillong.

CSIR constituent lab CSIR-Central Drug Research Institute (CDRI) Lucknow has received permission for carrying out the Phase III trial of antiviral drug Umifenovir. In this randomised, double-blind, placebo-controlled trial, CDRI will test the efficacy, safety and tolerability of Umifenovir. Umifenovir is a drug primarily used to treat influenza. Available in China and Russia, the drug rose to prominence given its potential in treating Covid-19 patients.

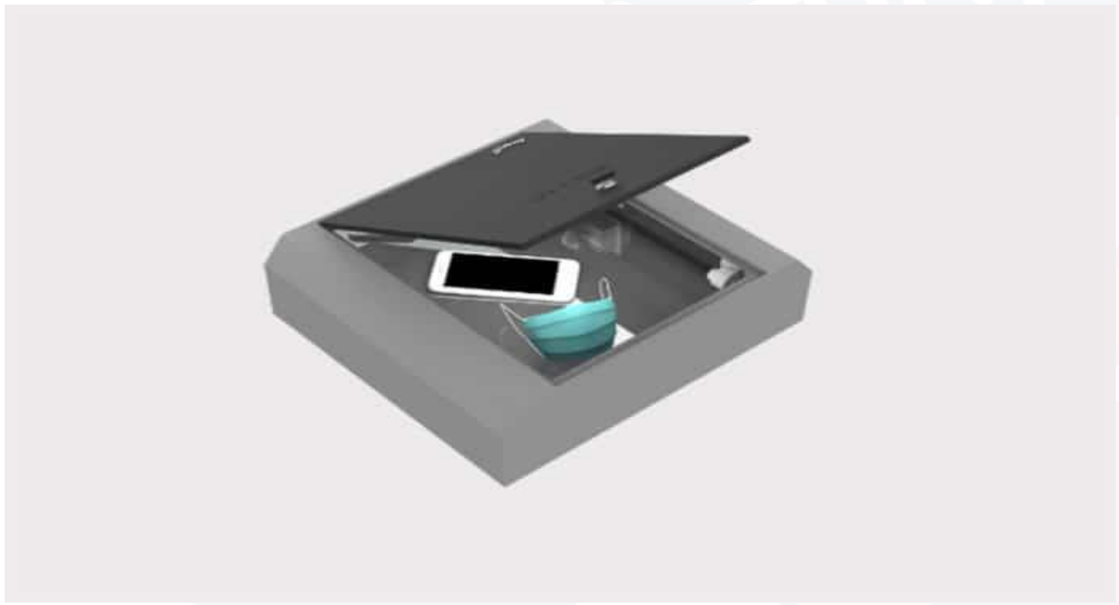
CSIR-CDRI is conducting this trial to analyse its efficacy in Indian patients. CSIR-CDRI has not only developed the economical process technology for the drug in record time but also licensed the technology for manufacturing and marketing the drug to Medizest Pharmaceuticals of Goa. The Phase III trial will be conducted at Dr Ram Manohar Lohia Institute of Medical Sciences (RMLIMS), Era's Lucknow Medical College & Hospital, and King George's Medical University (KGMU).

Published in:
Pragativadi

Godrej launches UV Case that helps sanitize daily-use items before use

CSIR-CSIO

18th July, 2020



Today, health security has become a priority for everyone. There is an increased need for a product post-COVID-19 that would sanitize anything that has been brought home from external environments. To meet the growing demand, Godrej Security Solutions (GSS), the leading player in future technology of security solutions, has entered the health security segment by expanding its future technology security solutions. In May, the company introduced the COVID Defence Security Range of products to combat the spread of infections. Now, it has launched the 'UV Case' that addresses the issue of sanitizing daily objects, equipment, and surfaces that come in contact with several people before entering a premise. The UV Case uses UV-C light disinfection technology. With the help of this technology, multiple-barrier can be created to reduce the transmission of the virus and germs based on current disinfection data and empirical evidence. It is claimed that the product has undergone rigorous testing – both at in-house and leading external laboratories such as CSIR-Central Scientific Instrument Organisation (CSIR), an ICMR approved laboratory based in Chennai and also has CE certification. The Godrej UV Case disinfects and decontaminates almost everything used by an individual daily. The product enables homeowners and commercial establishments to sanitize their daily-use items like watches, wallets, mobile phones, parcels, stationery, medical equipment, and salon products before use. Shop owners can disinfect their items for sale before and after customers have had a touch and feel of the same. It can kill 99.9% viruses and bacteria, including SARS-CoV-1. The UV Case comes in three variants 15L, 30L, and 54L ranging for home use to industrial use starting at INR 8,999. The products are currently available across stores from GSS and

will be available on their e-commerce website. *"As a market leader, it was incumbent on us to launch a product only after rigorous internal and external testing before it could reach consumers. With the UV Case, we move one step closer to achieving our mission of making the world a safer and healthier place,"* said Mehernosh Pithawalla, Vice President, Godrej Security Solutions.

Published in:
Inceptive Mind

Research institutes develop a slew of devices to curb Covid

DEBAJYOTI CHAKRABORTY
DURGAPUR, 17 JULY

CSIR-CMERI have developed solar-based intelligent mask, automated dispensing unit-cum-thermal scanner, touchless faucet

The CSIR-Central Mechanical Engineering Research Institute (CMERI) of Durgapur has developed a Covid Protection System (COPS) that include an array of equipments for protection against Covid-19, in workplaces.

The CSIR-CMERI had developed a solar-based intelligent mask, automated dispensing unit-cum-thermal scanner, touchless faucet, 360 degree car flasher etc. Dr. Harish Hirani, director of CSIR – CMERI said apart from health workers, security workers are also vulnerable in these pandemic times.

The institute is working towards developing a digital entry management system with automated work flow based on artificial intelligence and internet of things.

He pointed out, "Under Atma Nirbhar Bharat call of Central government, various start-up companies can avail COPS at workplace The solar-based 'IntelliMAST' is an intelligent surveillance kiosk which identifies rise in body temperature and verify whether an individual is wearing mask, through customised software solutions.

One is provided with a mask and the price is deducted from the salary.

The inbuilt thermal scanner detects rise in body temperature through forehead scanning and sends audio-visual signal to the security system.

The surveillance kiosk also facilitates identity card based mask dispensing and attendance system. The solar power back up requirement is 45 to 50 watts.

Published in:
The Statesman

CSIR suggests cap on remdesivir price

CSIR

17th July, 2020

NEW DELHI: The Council of Scientific and Industrial Research (CSIR) has suggested regulating price of the experimental Covid-19 medicine Remdesivir used in hospitalised patients who are on oxygen support on the basis of a cost analysis of the API used in the formulation. The proposal states that the price of the drug can come down substantially and CSIR has submitted its recommendations depicting scope for sizeable reduction in cost of treatment with regard to the drug used for treating severely ill patients, sources said. “The proposal to cap the price of the drug is under active consideration by the drug price regulator, National Pharmaceutical Pricing Authority The NPPA is the drug price regulator of India. Remdesivir is currently priced in the range of Rs 4,000-Rs 5,000 per vial and the total cost for the drug during treatment is estimated between Rs 40,000 and Rs 55,000. The drug – originally developed by an American firm Gilead – has been launched in India by a number of generic drug makers including Cipla, Hetero and Mylan who entered a licensing agreement with the drug’s patent holder. At least three more companies – Jubilant Life Sciences, Dr Reddy’s Labs and Cadila are also expected to launch their brands of Remedisivir very soon. While this arrangement itself has brought down the price of the drug, CSIR thinks it can still be brought down substantially. "The idea behind the proposal is to make the drug available and affordable to all in such a crisis," another official said. Sources said a slew of meetings have taken place in last two weeks between the Department of Pharmaceuticals (DoP), NPPA, health ministry and NITI Aayog. While Remedisivir is just one of the expensive drugs being tried for COVID-19 patients, it assumes significance because it is part of the standard

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COST OF COVID TREATMENT

Estimated cost of treatment for different drugs indicated for Covid-19

Remdesivir costs around ₹4,000-5,000 per vial

- Total treatment cost for the drug estimated in the range of ₹40,000-55,000

Favipiravir costs ₹103 per 200 mg tablet

- Total treatment cost for the drug ranges from ₹12,000 to ₹15,000

Itolizumab costs around ₹8,000 per vial

- Total treatment cost for the drug could be between ₹32,000 and ₹50,000

Tocilizumab costs ₹40,000 to ₹50,000 per vial

treatment protocol for COVID-19 suggested by the health ministry. The drug is in high demand after the intravenously-administered medicine helped to shorten hospital recovery time in a clinical trial. Remdesivir is in high demand after the intravenously-administered medicine helped to shorten hospital recovery time in a clinical trial and is now part of the standard treatment protocol for Covid-19 suggested by the health ministry. This is also a crucial factor holding back the government and the regulatory authorities from imposing a price cap on the drug. "The drug is in huge demand despite some serious adverse events reported from its use in some cases. Therefore, it is important for us to ensure availability of the drug. Price regulation must not lead to short supply," the official said.

Recently, there were reports of shortage-driven black marketing and overcharging of Remdesivir, prompting the health ministry to ask the companies making the drug to regularly give details of production, stocks and sales.

Published in:
The Times of India

CSIR-CMERI, Durgapur innovates COVID Protection System (COPS) for workplace

CSIR-CMERI 17th July, 2020

After a series of inventions to combat with the COVID-19 pandemic, CSIRCMERI, Durgapur, today unveiled the COVID Protection System (COPS) for Workplace as a game-changer in the current pandemic scenario. Director, CSIR-CMERI Durgapur Prof. (Dr.) Harish Hirani today officially unveiled the system. He said, "Apart from the Healthcare Workers, the frontline Security Guards of any organisation are also very vulnerable to COVID through infected individuals and contaminated objects. CSIRCMERI, Durgapur, in the near future will be developing a Digital Entry Management Systems whereby workflow would be automated and would be based upon Artificial Intelligence and Internet of Things. " " The COPS for Workplace includes contactless Solar Based Intelligent Mask Automated Dispensing Unit cum Thermal Scanner (IntelliMAST), Touchless Faucet (TouF) and 360° Car Flusher is now available for Technology Transfers and Product Orders." The COPS is a conglomeration of the following technologies: 1. Solar Based Intelligent Mask Automated Dispensing Unit cum Thermal Scanner (IntelliMAST)-The Solar Based IntelliMAST is an Intelligent surveillance kiosk which identifies the body temperature and whether an individual is wearing Face Mask or not through customised Software solutions. The information about an employee not wearing a Face Mask is provided to the Administration for Cashless delivery of the Mask and later deduction of the price from the Salary. In this regard the system harnesses Internet-of-Things in a seamless manner. The in-built Thermal Scanner detects probable rise in Body Temperature through forehead scanning and audio visual alert the Security Guards. The IntelliMAST will help ensure safety of supervising staff and implementation of precautionary measure in any large organization. The IntelliMAST will also facilitate Identity Card based Mask Dispensing & Attendance System. Facial Recognition based & ID Card based Attendance System will be incorporated into the system in the near future and therefore may act as a comprehensive solution for Office & Industrial Complexes as well as School & College campuses.

This system uses Artificial Intelligence and Information Technology to give real-time results and can be synchronised with the Human Resource Data of any organisation for any real-time data response and dissemination of information. The IntelliMAST system is backed up by Solar Power for uninterrupted Power Supply during blackouts. The power supply requirement of the IntelliMAST is 40-50 Watts sourced through a Hybrid combination of Solar Power & Electricity. Touchless Faucet (TouF)-The Touchless Faucet (TouF) is being launched for households and Office Spaces. The system dispenses Liquid Soap and Water from the same Faucet with a timegap of 30 seconds, which is according to the latest Government guidelines. The Faucet can be very easily mounted on top of any Wash-Basin and will be available in Plug and Play mode for very easy installation. This System dispenses Water 30 seconds after dispensing Soap in a Touch-free Mechanism as per Local Government guidelines and can be very easily mounted on top of household wash basins. This domestic variant of the Dispensing system will help in arresting the contamination and help in further containing the spread of infection among the family members, for any asymptomatic individual. The technology has a power supply requirement of only 10 Watts. 360° Car Flusher: The CSIR-CMERI developed 360° Car Flusher is a Sodium Hypochlorite Water Screen which uses specialised Nozzle Design to ensure that the Sanitizer Diffused Water is evenly spread over and under the Car Body/Wheels with adequate Water Force and coverage. The Architecture of the 360° Car Flusher is based upon a Water Channel Frame with appropriate number of specialised Nozzles which can be customised and modified as per the specific requirements of any particular organisation. The Water Channel Frame and Nozzle Design of the Flusher have been optimised to ensure Water Efficiency and reduce Water Wastage. It requires 750 watts of power required to run a pump. Dr. Hirani further stated, “CSIR-CMERI, Durgapur, aims to support and align the Start-Ups and entrepreneurs while developing its technologies to give boost to their aspirations and give them a platform to showcase their Innovative potentials. CSIR-CMERI is also focused upon developing products ‘Made in India’, which will consequently boost the Atma-Nirbhar Bharat flagship initiative of the Government of India”.

Published in:
United News of India

CSIR-CEERI

16th July, 2020

सीरी ने बनाया रेडियोथैरेपी में जरूरी मैग्नेट्रॉन, अब तक विदेश से आयात होता था, अब देश में ही उससे सस्ती लागत पर बनेगा

भास्कर संवाददाता | झुंझुनूं/पिलानी

सीएसआईआर-सीरी पिलानी ने रेडियोथैरेपी मशीनों में लगने वाले एक बेहद जरुरी व उपयोगी पार्ट मैग्नेट्रॉन को भारत में ही विकसित करने में सफलता पाई है।

सीरी की यह उपलब्धि आत्मनिर्भर भारत की दिशा में एक महत्वपूर्ण कदम मानी जा रही है, क्योंकि भारत यह पार्ट अब तक लंदन से आयात ही करता आया है। सीरी ने इसके लिए जरुरी एक्सरे की मात्रा भी प्राप्त कर ली है। सीरी के हिंदी अधिकारी रमेश बौरा ने बताया कि बुधवार को सीरी की ओर से इस टैक्नोलॉजी को पैनेसिया मेडिकल टेक्नोसर्लॉजीज प्राइवेट लिमिटेड, बैंगलुरु को ऑनलाइन हस्तांतरित किया गया। अब पैनेसिया इसका उत्पादन करेगा। एरिया कोऑर्डिनेटर डॉ आरके शर्मा, मैग्नेट्रॉन के परियोजना प्रमुख डॉ शिवेन्द्र मौर्य ने इस तकनीकी के बारे में बताया। इस मौके एमएस टीम के डॉ. शेखर सी मांडे, सीरी के निदेशक डॉ. पीसी पंचारिया, बीएआरसी के डॉ अजीत कुमार मोहंती, डॉ. अर्चना शर्मा, डॉ. श्रीकृष्णन गुप्ता, डॉ. डीके असवाल, डॉ पी के खत्रा और डॉ. जेएल रहेजा मौजूद थे।

तस्करी को रोकने वाली कार्गो मशीन में भी आता है काम

मैग्नेट्रान एक छोटा सा पार्ट होता है। इसका उपयोग ना केवल रेडियोथैरेपी मशीनों में होता है बल्कि सीमा पर घुसपैठ रोकने और सामग्री की तस्करी को रोकने में कार्गो जांच मशीन में भी यह काम आता है। रेडियोथैरेपी मशीनों में यह इलेक्ट्रॉन को बढ़ाने का काम करता है और एक्सरे के रुप में निकालता है। यह एक्स रे मरीज कैंसर टिश्यू को नष्ट करती हैं। मैग्नेट्रॉन की मदद से यह उसके आसपास के हिस्से को ज्यादा प्रभावित नहीं करती। पैनेसिया कंपनी के प्रतिनिधि डॉ जी वी सुब्रमण्यम और महानिदेशक डॉ. शेखर सी मांडे ने सभी को बधाई दी।

आत्मनिर्भर भारत की ओर सीरी का एक कदम

- *सीरी की यह उपलब्धि आत्मनिर्भर भारत की ओर बड़ा कदम है। अब तक यह उपकरण लंदन से आयात होता था। अब यह भारत में ही बनेगा और इस पर लागत भी उससे कम आएगी। ये बड़ी उपलब्धि है।*

– पीसी पंचारिया, निदेशक, सीरी

Published in:
Dainik Bhaskar

सीएसआईआर-आईआईआईएम के नये निदेशक नियुक्त हुए डॉ श्रीनिवास रेड्डी

CSIR-NCL

16th July, 2020

वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद (सीएसआईआर) की पुणे स्थित प्रयोगशाला नेशनल केमिकल लेबोरेटरी (एनसीएल) के ऑर्गेनिक केमिस्ट्री डिवीजन के वैज्ञानिक डॉ श्रीनिवास रेड्डी को इंडियन इंस्टीट्यूट ऑफ इंटीग्रेटिव मेडिसिन (आईआईआईएम) के निदेशक के रूप में नियुक्त किया गया है। जम्मू स्थित आईआईआईएम; सीएसआईआर की एक अन्य घटक प्रयोगशाला है। डॉ रेड्डी का शोध कार्य मुख्यतः अनुप्रयोग आधारित कार्बनिक संश्लेषण पर केंद्रित है। उनके शोध का दायरा विस्तृत है, जिसमें जैविक रूप से सक्रिय प्राकृतिक उत्पादों का पूर्ण संश्लेषण, औषधीय रसायन विज्ञान और फसल संरक्षण जैसे विषय शामिल हैं। दवाओं की खोज के उद्देश्य के साथ ज्ञात दवा संरचनाओं में मैक्रोसायकिलिक प्राकृतिक उत्पादों एवं सिलिकॉन संयोजन के प्रयास उनके अनुसंधान समूह की रुचियों में विशेष रूप से शामिल हैं।

डॉ रेड्डी ने वर्ष 1991 में उस्मानिया विश्वविद्यालय से स्नातक उपाधि प्राप्त की और 1993 में उसी विश्वविद्यालय से ऑर्गेनिक केमिस्ट्री में मास्टर डिग्री पूरी की। उन्होंने डॉक्टरल अध्ययन हैदराबाद विश्वविद्यालय में प्रोफेसर गोवर्धन मेहता की प्रयोगशाला में किया और वर्ष 2000 में पीएच.डी. की डिग्री प्राप्त की। शिकागो विश्वविद्यालय में सर्गेई ए. कोजमिन और अमेरिका की यूनिवर्सिटी ऑफ कंसास में जेफरी ऑबे की प्रयोगशालाओं में पोस्ट-डॉक्टरेट करने के बाद उन्होंने भारत में दवा कंपनियों में काम किया। वर्ष 2010 में वह सीएसआईआर-एनसीएल से जुड़ गए और वर्तमान में एक वरिष्ठ प्रधान वैज्ञानिक के रूप में काम कर रहे हैं।

डॉ रेड्डी का शोध कार्य मुख्यतः अनुप्रयोग आधारित कार्बनिक संश्लेषण पर केंद्रित है। उनके शोध का दायरा विस्तृत है, जिसमें जैविक रूप से सक्रिय प्राकृतिक उत्पादों का पूर्ण संश्लेषण, औषधीय रसायन विज्ञान और फसल संरक्षण जैसे विषय शामिल हैं।

सीएसआईआर-एनसीएल द्वारा जारी बयान में बताया गया है कि डॉ रेड्डी के 100 से अधिक शोध पत्र अंतरराष्ट्रीय शोध पत्रिकाओं में प्रकाशित हुए हैं और वह 35 पेटेंटों के आविष्कारक हैं। उनके शोध कार्यों के लिए उन्हें प्रतिष्ठित शांति स्वरूप भटनागर पुरस्कार से नवाजा गया है। इसके अलावा डॉ रेड्डी को दवाओं की खोज आधारित अनुसंधान में उत्कृष्टता के लिए अन्य कई पुरस्कार प्रदान किए गए हैं।

इनमें सीडीआरआई पुरस्कार, केमिकल रिसर्च सोसायटी ऑफ इंडिया (सीआरएसआई) द्वारा प्रदान किया गया कांस्य पदक, नेशनल एकेडेमी ऑफ साइंस-इंडिया (एनएएसआई)-रिलायंस इंडस्ट्रीज प्लेटिनम जुबली अवॉर्ड, सन फार्मा रिसर्च अवॉर्ड और ऑर्गेनाइजेशन ऑफ फार्मास्यूटिकल प्रोड्यूसर्स ऑफ इंडिया (ओपीपीआई) अवार्ड शामिल हैं। नेशनल एकेडेमी ऑफ साइंस के फेलो रहे डॉ रेड्डी को इंडियन फार्माकोपिआ के वैज्ञानिक निकाय के नामित सदस्य के रूप में भी चुना गया है। वह एल्सवेयर समूह की शोध पत्रिका बायो-ऑर्गेनिक ऐंड मेडिसिनल केमिस्ट्री लेटर्स के संपादक भी हैं।

इंडियन इंस्टीट्यूट ऑफ इंटीग्रेटिव मेडिसिन (आईआईआईएम), जम्मू को मुख्य रूप से पादप एवं सूक्ष्मजीवों जैसे प्राकृतिक उत्पादों से दवाओं की खोज पर केंद्रित अनुसंधान के लिए जाना जाता है। जैव प्रौद्योगिकी आधारित इन शोध कार्यों का उद्देश्य राष्ट्रीय और अंतरराष्ट्रीय बाजारों के लिए उच्च मूल्य की प्रौद्योगिकियां, दवाएं और उत्पाद विकसित करना है। डॉ श्रीनिवास रेड्डी के इस संस्थान से जुड़ने के बाद इस संस्थान में दवाओं के विकास संबंधी शोध कार्यों में नये आयाम देखने को मिल सकते हैं।

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औषध संशोधन संस्थेच्या संचालकपदी डॉ. रेड्डी

डॉ. रेड्डी

पुणे : राष्ट्रीय रासायनिक प्रयोग शाळेतील (एनसीएल) शास्त्रज्ञ डॉ. श्रीनिवास रेड्डी यांची जम्मू येथील भारतीय एकात्मिक औषध संशोधन संस्थेच्या (आयआयआयएम) संचालकपदी निवड झाली आहे. 'एनसीएल'च्या सेंद्रिय रसायनशास्त्र विभागात ते कार्यरत होते. पुढील काही दिवसांतच डॉ. रेड्डी कार्यभार हाती घेतील. सेंद्रिय संस्लेषण, रसायनशास्त्र, जैविक नैसर्गिक उत्पादने, पिकांचे संरक्षण आदी विषयांत त्यांचे संशोधन आहे. शांतिस्वरूप भटनागर पुरस्कारानेही त्यांना सन्मानित केले आहे.

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Pune: NCL Scientist Dr Srinivasa Reddy appointed director of Indian Institute of Integrative Medicine (IIIM) Jammu

Sakal Times News Desk | Wednesday, 15 July 2020

> *IIIM has a primary focus of research on drug discovery from natural products, both plant and microbial origin, enabled by biotechnology to develop technologies, drugs and products of high value for the national and international markets.*

Pune: Dr Srinivasa Reddy, Senior Principal Scientist from the Organic Chemistry Division of National Chemical Laboratory (NCL) has been appointed as the director of Indian Institute of Integrative Medicine (IIIM) Jammu. He is taking charge in the next few days, the NCL has informed.

IIIM has a primary focus of research on drug discovery from natural products, both plant and microbial origin, enabled by biotechnology to develop technologies, drugs and products of high value for the national and international markets.

Dr Reddy is a recipient of the prestigious Shanti Swarup Bhatnagar prize in chemical sciences and has authored more than 100 research papers in international peer-reviewed journals. He is also an inventor in 35 patents.

Dr Reddy graduated in 1991 from Osmania University and completed his master's degree in organic chemistry from the same University in 1993. He joined Prof Goverdhan Mehta's lab at the University of Hyderabad for doctoral studies and got a PhD in the year 2000. After the post-doctoral work at the laboratories of Sergey A. Kozmin of the University of Chicago and Jeffrey Aubé of University of Kansas, USA, he had worked in pharmaceutical companies based in India. He had moved to NCL in 2010 and is currently working as a Senior Principal Scientist.

Dr Reddy's group research interests are application-oriented organic synthesis, in particular, total synthesis of biologically active natural products, medicinal chemistry and crop protection are the major areas of areas in his group. Efforts on macrocyclic natural products and silicon incorporation in known drug scaffolds with the ultimate aim of discovering drugs are the special interests of his group.

Other recognitions include CDRI Award for excellence in drug discovery research, CRSI Bronze Medal in chemical science, NASI-Reliance Industries Platinum Jubilee Award, Sun Pharma Research Award, OPPI award for contributions in pharmaceutical sciences, a fellow of National Academy of Sciences, India. He is a nominated member of the scientific body of Indian Pharmacopoeia. He also serves as an editor of Bioorganic and Medicinal Chemistry Letters, an Elsevier journal.

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