

CSIR IN MEDIA



CSIR

NEWS BULLETIN

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Herbal plants planted at CSIR-NEIST



CHRONICLE NEWS SERVICE

IMPHAL: Plantations of medicinal, aromatic and economically important plants was carried out at Herbal Garden of CSIR-North East Institute of Science and Technology, Branch Laboratory, Lamphel-pat by Botanical Survey of India, Kolkata director Dr AA Mao in the presence of senior principal scientist Dr Huidrom Birkumar Singh and Manipur Public Service Commission member Dr Lokho Puni and other officials on Saturday.

A press release of CSIR-NEIST informed that more than 60 species of medicinal, aromatic and traditional or religiously associated plants are already planted in the Herbal Garden of the institute. Some of the important species planted in the Herbal Garden are Agar (*Aquilaria ma-*

laccensis), Kekru (*Sapindus mukorossi*), Larong (*Dillenia pentagyna*), Madhbi (*Hiptage benghalensis*), Urirei (*Stixis suaveolens*), Tomal (*Diospyros montana*), Ningthoukhongli (*Tinospora cordifolia*), Heigri (*Dillenia indica*), Manahi (*Terminalia citrina*), Ureirom (*Bixa Orellana*), Mukthruhi (*Zanthoxylum acanthopodium*), Yai-thamna-manbi (*Kaempferia galanga*), Chingtharo angangba (*Bauhinia purpurea*), Harikokthong (*Artocarpus lakoocha*), Thang-hidak (*Litsea sebifera*), Bokul (*Mimusops elengi*), Usingsha (*Litsea cubeba*), Utharo (*Mesua ferrea*), Shamba (*Oroxylum indicum*), Uthum-naraobi (*Bischofia javanica*) and Neem (*Azadirachta indica*), etc. Students and teachers from various schools and colleges of the state are regularly visiting the Herbal Garden, it added.

CSIO transfers tech for LED aircraft lights to BEL

CSIR-CSIO

30th October, 2021

The Central Scientific Instruments Organisation (CSIO) celebrated its Foundation Day with several events, including an online quiz, e-presentation competition and a virtual open day.

A Technology Transfer Agreement was also signed between Bharat Electronics Limited (BEL) and the CSIO for LED-based night vision goggles, compatible wing and fin navigation lights for aircraft, LED-based taxi and landing lights and LED-based drogue lights along with associated test rigs.



Prof S Anantha Ramakrishna, Director, CSIO said the new technology developed by the CSIO would lead to more rugged lights for the aircraft since these would be LED based and would replace the thin filament lamps used in earlier versions, which made it more prone to breakdowns. He said it would lead to less power consumption and less heat dissipation, making the lights compatible for night vision capability.

Prabha Goyal, General Manager, BEL, signed the agreement on behalf of BEL. Dr Anjan Ray, Director, CSIR-IIP and Head, CSIR-HRDG, stressed the need to decompartmentalising knowledge and using it to match the perfection that nature achieved through its miraculous creations.

सीएसआईआर-सीएमआईआरआई में 'तकनीक व उपकरण' पर कौशल विकास कार्यक्रम में बोले प्रो हरीश हिरानी

'जल के परीक्षण व शुद्धीकरण के उपाय तलाशने होंगे'

दुर्गापुर. सीएसआईआर-सीएमआईआरआई में 'जल गुणवत्ता आकलन के लिए विश्लेषणात्मक तकनीक और उपकरण' पर कौशल विकास कार्यक्रम का आयोजन किया गया. प्रो. हरीश हिरानी, निदेशक, सीएसआईआर-सीएमआईआरआई ने कार्यक्रम का उद्घाटन किया. कार्यक्रम में माइकल मधुसूदन मेमोरियल कॉलेज, दुर्गापुर, काजी नजरूल विश्वविद्यालय, सरकारी कॉलेज दुर्गापुर, सेंट जेवियर्स कॉलेज, कोलकाता, रामकृष्ण मिशन विवेकानंद शताब्दी कॉलेज, रहारा, सर्वोदय कॉलेज ऑफ नर्सिंग, बेंगलुरु और कल्याणी विश्वविद्यालय के 31 पंजीकृत छात्रों ने हिस्सा लिया. इस दौरान पर्यावरण इंजीनियरिंग समूह, सीएसआईआर-सीएमआईआरआई के वैज्ञानिकों ने पीने और अपशिष्ट जल के लिए उपयोग किये जानेवाले विभिन्न जल



संबोधित करते प्रो हरीश हिरानी.

गुणवत्ता मानकों का एक समग्र सारांश प्रस्तुत किया और विश्लेषणात्मक उपकरण की मूल बातें जो कई मानकों के आकलन की रीढ़ हैं. भाग लेनेवाले छात्रों को नियामक निकायों द्वारा निर्धारित जल गुणवत्ता मानकों के विभिन्न पहलुओं के बारे में एक सामान्य विचार दिया गया और परिष्कृत विश्लेषणात्मक उपकरण का उपयोग करके उनका आकलन किया

गया. बताया जाता है कि यह 'जल गुणवत्ता आकलन के लिए विश्लेषणात्मक तकनीक और इंस्ट्रुमेंटेशन' पर 5वां एसडीपी बैच है. सीएसआईआर-सीएमआईआरआई द्वारा अब तक इस विषय पर 114 छात्रों को कोविड-19 प्रोटोकॉल का पालन करते हुए कुशल बनाया गया है. प्रो. हरीश हिरानी ने कार्यक्रम का उद्घाटन करते हुए कहा कि पानी के महत्व को कभी भी बढ़ा-चढ़ाकर नहीं बताया जा सकता. जबकि वैज्ञानिक बिरादरी का अधिकांश ध्यान पीने के उद्देश्यों के लिए पानी के संवर्धन पर रहा है. हालांकि, कृषि, सड़क की सफाई और अन्य विविध कार्यों के लिए पानी के विश्लेषण और शुद्धीकरण के रास्ते तलाशने की जरूरत है. पानी की कमी जैसे सामाजिक संकटों से निपटने के लिए वैकल्पिक दृष्टिकोण विकसित करने का समय आ गया है. पानी को पीने

योग्य बनाने के लिए भारी मात्रा में संसाधनों का उपयोग किया जाता है और उसके बाद उन्हें गैर-पीने योग्य उद्देश्यों जैसे कृषि, सड़क की सफाई, बागवानी, कपड़े धोने की सफाई आदि के लिए भी बदल दिया जाता है. इस प्रकार विभिन्न उद्देश्यों के लिए पानी के विभेदक उपचार को लागू करने की आवश्यकता है और इसे इस उद्देश्य के लिए तैयार की गयी नवीन तकनीकों की पर्याप्त तैनाती के माध्यम से प्राप्त किया जा सकता है. सीएसआईआर-सीएमआईआरआई ने युवाओं और समाज के लिए कौशल विकास पहल पर विशेष जोर दिया है. व्यक्तियों के कौशल से उन्हें सशक्त बनाया जायेगा और उन्हें एक अद्वितीय और अभिनव मानसिकता विकसित करने में सहायता मिलेगी, ताकि वे सामाजिक समस्याओं के लिए अलग समाधान प्रदान करने में सक्षम हो सकें.

Dr Jitendra addresses Science Meet for 75,000 farmers from 75 districts

CSIR

28th October, 2021

Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh today addressed the first-ever Science Meet for 75,000 farmers from 75 Aspirational Districts to commemorate the 75th year of India's independence at a mega event "Farmers-Scientists Connect Meet". This was the first of its kind event in the country where farmers freely interacted with the leading scientists in agriculture sciences and technologies to adopt best farm practices and increase the farm output.



It was organized jointly by DBT and Biotech-KISAN Hub at ICAR-IARI, PUSA, New Delhi under "Azadi Ka Amrit Mahotsav" celebrations. Dr Jitendra Singh assured the farmers that the unique initiative of the Government headed by Prime Minister Narendra Modi to find Science-based Agricultural Innovations will not only double the farmers income but will also make India the leading Agricultural and Scientific Power in the World, when it turns 100 after 25 years of Amrit Kaal Journey. Referring to Prime Minister's top most priority for farm and allied sectors, the Minister said, this is the golden period of Agriculture happening in India under the Modi Government, where a series of novel initiatives have been taken for the welfare of farmers in the last seven years.

He said, welfare schemes like PM Kisan Maandhan Yojana, PM Fasal Bima Yojana, PM Kisan Samman, Soil Health Card, Neem Coated Urea, e-Nam to name a few have truly revolutionized agriculture and farm production. The pro-farmer schemes and programmes have also empowered the Agriculture Sector financially & resourcefully, besides giving esteem and respect to the farmers which was lacking earlier, he added. The Minister said that the Biotech-KISAN is a scientist-farmer partnership scheme launched by Department of Biotechnology (DBT) in 2017 for agriculture innovation with an objective to connect science laboratories with the farmers to find out innovative solutions and technologies to be applied at farm level. He said, the establishment of Biotech-KISAN Hubs in different agro-climatic zones will strengthen and empower the Krishi Vigyan Kendras (KVKs) with latest and innovative technologies by linking them with national scientific labs and institutions.

Dr Jitendra Singh informed that a total number of 36 Biotech-KISAN Hubs have been established so far, covering all 15 agro-climatic zones in the country and their activities implemented in a total 169 districts including 112 Aspirational Districts. He said, the scheme has benefitted over three lakhs farmers so far by increasing their agriculture output and income. Over 200 entrepreneurships have also been developed in rural areas. Dr Jitendra Singh said, DBT has also planned to establish a network of Biotech-KISAN Hubs in North Eastern Region as well as in other Himalayan states such as Jammu & Kashmir, Ladakh, Himachal Pradesh and Uttarakhand under its special programmes. He said that the proposals have been already developed and finalized for establishing 15 Biotech-KISAN Hubs in the North Eastern Region. Similarly, it is planned to establish at least a similar number of Biotech-KISAN Hubs in other Himalayan states, the Minister added.

The DBT has also taken steps to use Biotech-KISAN Hubs as test beds for testing, validating and demonstration of various innovative technologies at farmers' level, which are developed by various other organizations such as BIRAC, ICAR, CSIR, DST, etc.

The programme also provides support for conducting training programmes for farmers in laboratories of scientific research institutions and immersion of scientists in agriculture farms to better understand the problems of farmers at ground level and find solutions for the same.

Dr Jitendra Singh said, this programme will be working on the basis of cluster approach for economic uplift of small and marginal farmers, rural youths and woman by infusion of biotechnology-based solutions in agriculture and allied sectors, development of bio-based agri-enterprises in rural areas based on affordable technologies and providing support to them. He said, each Hub will create a network by developing strong linkages with top quality scientific institutions / State Agricultural Universities (SAUs) / Krishi Vigyan Kendras (KVKs) / existing state agriculture extension services / system and other Farmers' organizations in the region as well as linkages with leading international institutions / organizations.

Senior DBT officials informed that the significant achievements of the programme since inception include: revival of grass pea cultivation and its popularization amongst farmers of Bihar, utilization of rice fallows for enhancing pulse production in North Coastal Andhra Pradesh, empowerment of women farmers through scientific goat and sheep rearing in Sundarbans, promotion and popularization of good agricultural practices (GAPs) for seed spice cultivation amongst farmers of Western Rajasthan for getting premium price for agriculture produce, scientific pig rearing for livelihood improvement of tribal farmers of Meghalaya, production of quality planting material (QPM) of Malbhog variety of banana and its cultivation in Assam, promotion of conservation agriculture practices in rice-wheat and soybean-wheat cropping system in the state of Madhya Pradesh, etc.

Dr Jitendra Singh complemented the scientists associated with this unique programme and thanked all the farmers and farmers' groups for joining the Biotech-KISAN movement of DBT and hoped that adoption of technologies will lead to enhancing the farmers' income.

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[Daily Excelsior](#)

NGRI, GSI join hands for offshore exploration

CSIR-NGRI

28th October, 2021

The National Geophysical Research Institute (NGRI) here and Marine and Coastal Survey Division (MCSD) of the Geological Survey of India (GSI) in Mangalore have entered into a Memorandum of Understanding (MoU) for collaboration in the field of natural resource exploration in the Andaman Offshore region on Thursday.

GSI has been carrying out seismic surveys on selected parts of the continental shelf, rise and convergent margin in order to unearth submarine structures and associated mineral resources on the EEZ of India by utilising the multi-channel seismic data acquisition system along with other geoscientific equipment onboard Research Vehicle Samudra Ratnakar.

NGRI scientists have proven expertise in marine seismic studies with a record of technique development. These efforts are aimed at bringing synergy between the two institutes and to work in tune with the blue economy model of the country.

Within the framework of this MoU, NGRI would be carrying out advanced processing of the seismic data acquired by GSI in order to precisely identify the subtle seismic features and delineate the fine-scale velocity structure in the region, said a press release.

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[The Hindu](#)

Academia, industry to be essential stakeholders in scientific innovation: Dr Jitendra

CSIR

28th October, 2021

Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh said here today that an institutionalised mechanism will be evolved to make Academia and Industry essential stakeholders in scientific innovation.

Addressing the Academia Sub-Committee of the CSIR Society here, the Minister called for bridging the trust deficit between Academia and Industry and underlined the need for liberal and rational funding for development of cutting-edge technologies.



Dr Jitendra Singh informed that he had recently addressed the meeting of representatives of prominent Industry houses who are members of CSIR Society for developing stronger CSIR-Industry linkages. He said, this congregation of the leading academic experts from the country present in the meeting should deliberate on how the academia, industry and government can work together to foster innovation and catalyse entrepreneurship in the country.

The Minister said that the three stakeholders in the triple helix model of innovation i.e. industry, universities and government have a vital role in stimulating socio-economic development in the country through knowledge generation, invention and innovation.

Dr Jitendra Singh said that Prime Minister Narendra Modi has shown strong commitment to innovation through various initiatives and reforms such as the New Education policy and the STIP policy. He added that the recent reforms in drone usage or liberalisation of policies governing the acquisition and production of geo-spatial data reaffirms the commitment to innovation. The investment and commitment to new age technologies such as cyber physical systems and quantum computing show the government's resolve to foster an innovation ecosystem, the Minister added.

The Minister said, the report of re-orientation of CSIR led by Principal Scientific Advisor to Government of India Prof VijayaRaghavan could be used as a reference to formulate PPPs and innovation parks that allow universities, CSIR and Industry to partner together that allows flexibility and agility to deliver the innovation and technologies for the sustainable development of the country in the next 25 years to make India a leading scientific power in the world, when it celebrates 100 years of Independence.

Dr Jitendra Singh said that CSIR, being the largest government funded organization with a strong IP portfolio, can strengthen the innovation ecosystem in Universities and this partnership will not only benefit the Universities and CSIR but also catalyse the industry by bringing in new inventions and innovations that can fuel the growth. He called upon CSIR to come up with suitable models of engagement such as innovation parks where, on the one hand it will leverage the excellent fundamental research of Universities and national institutions and on the other hand, strengthen the industries in technology translation and dissemination. This will promote interdisciplinary and Trans disciplinary R&D stimulating the innovation quotient, he added.

Dwelling on the stellar role performed by CSIR on the Covid-19 mitigation front, Dr Jitendra Singh said that the country recently witnessed the momentous milestone of reaching 100 crore vaccinations. He said, this is truly remarkable and a testament to the 'can do' attitude of our scientific community, industry, doctors and countless health care workers across the country.

He also noted with satisfaction that CSIR has taken up many clinical trials in partnership with industry and AYUSH.

Dr Jitendra Singh also lauded the recent effort of CSIR in addressing the issues relating to mitigation of airborne transmission of SARS-CoV-2 where the technology has been installed in the Parliament of India. He said, CSIR has also launched a new initiative for PPE suits recycling, and a pilot trial was set up in Pune by CSIR-NCL in partnership with RIL.

The Minister urged that this should be taken up in a big way in partnership with industry and MSMEs and others as disposal of the PPE waste is a huge challenge and fulfilling the commitment to Waste to Wealth mandate of the Government should be a high priority.

Dr Jitendra Singh informed that 108 units of the MEDICAL grade Oxygen (MO₂) concentrator systems developed by CSIR-IIP technology based on the Advanced PVSA Technology were installed with funding from PM CARES and executed by CSIR in a very short time.

Published in:

[Daily Excelsior](#)

CSIR demonstrates Mechanised Scavenging System

MI News Service, New Delhi/ Durgapur: CSIR demonstrated the CSIR-CMERI, Durgapur developed indigenous Mechanised Scavenging System successfully at the premises of the CSIR-National Physical Laboratory, Delhi on OCT 27th in presence of Dr. Shaker C. Mande, Prof. (Dr.) Harish Hirani, Prof. Venugopal Achanta, Rupa Mishra, representatives from three Municipal Corporations of Delhi, government officials, Engineers & industrialists.

Dr. Shekhar C Mande, Secretary, DSIR and Director General, CSIR said the development has happened on the directive of PM given at last CSIR Society Meeting. He further said that the developed device is ideally suited for metro cities like Delhi. Two more versions of machine have been developed for tier-2 and tier-3 cities.

Prof. (Dr.) Harish Hirani, Director CMERI Durgapur explained the effectiveness of indigenously developed mechanised scavenging system to handle the chockage, caused by plastic and other non-biodegradable domestic thrown-away items, debris, intrusion of tree roots, etc.

Avinash Kumar Yadav, Sr. Scientist,



CSIR-CMERI told that in the market available systems, a rodding mechanism is commonly used to clear the blockage in the sewer pipes, but it may erode the inside surface of the pipe. Whereas CSIR-CMERI Durgapur's developed system uses a high flow rate system jetting pump which exerts high force to clear the blockage without any damage to the pipe. CSIR-CMERI has de-

veloped a Vehicle Integrated Mechanized Scavenging System after intensive studies of the diverse nature of Indian Sewerage Systems and the manner of its blockages. Ministry of Housing and Urban Affairs was impressed with the CSIR-CMERI developed mechanised scavenging technology with all the advanced features available in the developed system.

पालमपुर में सतर्कता जागरूकता सप्ताह 2021 का हुआ शुभारम्भ

CSIR-IHBT

27th October, 2021

केन्द्रीय सतर्कता आयोग, नई दिल्ली तथा मुख्य सतर्कता अधिकारी, सीएसआईआर के दिशा-निर्देशों के अनुसार पालमपुर में सतर्कता जागरूकता सप्ताह-2021 का आयोजन किया जा रहा है। डॉ. संजय कुमार, निदेशक, सीएसआईआर-आईएचबीटी, पालमपुर हिमाचल प्रदेश द्वारा 26 अक्टूबर को संस्थान के सभी वैज्ञानिकों, शोधकर्ताओं एवं कर्मचारियों को "सत्यनिष्ठा प्रतिज्ञा" शपथ दिलाकर सतर्कता जागरूकता सप्ताह-2021 का शुभारम्भ किया गया। यह सप्ताह 26 अक्टूबर से 1 नवम्बर तक मनाया जाएगा। यह वर्ष "375 सत्यनिष्ठा से आत्मनिर्भरता" विषय पर आधारित है।



सप्ताह के शुभारंभ पर डॉ. कुमार ने अपने संबोधन में सभी वैज्ञानिकों, शोधकर्ताओं एवं कर्मचारियों को संदेश दिया कि सभी अपने-अपने कार्यस्थल में कभी किसी गैरकानूनी व भ्रष्टाचार के कार्य को पनपने का अवसर न दें। उन्होंने आगे कहा कि सभी को अपने कार्यों में पारदर्शिता और ईमानदारी अपनाने से गुरेज़ नहीं करना चाहिए। इस अवसर पर संस्थान में एक जागरूकता पदयात्रा का भी आयोजन किया गया। इस पूरे सप्ताह में चलने वाले कार्यक्रमों का आयोजन कोविड महामारी के रोकथाम हेतु सक्षम प्राधिकारियों द्वारा जारी दिशानिर्देशों के अनुपालन में ऑनलाइन माध्यम से किया जाएगा।

Published in:

[First Verdict](#)

Skill India: CFTRI to train entrepreneurs in baking tech

CSIR-CFTRI

27th October, 2021

A 4-week Skill Development Programme on “Baking Technology” will be conducted at CSIR-CFTRI as a part of Skill India Initiative. The programme will be held from November 15 to December 10.

The CSIR-CFTRI said the bakery industry in India is the largest of the food processing segments with an estimated annual turnover of about \$ 7.60 billion in 2020. The market value is projected to reach \$ 13.3 billion by 2025 at a growth rate of over 9 per cent. It is a huge industry with over a million unorganised small-scale bakeries and more than 2,000 organised or semi-organised bakeries providing employment to a large number of people, according to the institute.

Driven by changing consumer preferences and health consciousness coupled with the recent COVID-19 push, the bakery industry is rediscovering itself with new dimensions. The sector is expected to see more international brands entering the Indian market and there will be a huge potential for unorganised small-scale bakery entrepreneurs, a release from the CFTRI said here.

The training programme caters to the needs of the fast-growing baking industry as per the requirements of National Skill Development Corporation (NSDC) guidelines. Expert scientists of CFTRI will provide hands-on training on choice of quality ingredients, product development and quality criteria.

The participants will also be given insight into packaging aspects, FSSAI guidelines, nutritional profiling, and health and hygiene control. The NSDC certificate for Qualification pack: Baking Technician/Operative (FIC/Q5005; NSQF level 4) will be awarded to the successful candidates at the end of the programme, it said.

The course would provide job opportunities for persons intending to have a career in baking industry, SHGs, unorganised bakery personnel, quality control managers, lab technicians/assistants etc. The course will be beneficial to persons who want to start their own bakery units.

Those who have completed matriculation or entrepreneurs having interest in the bakery industry can seek admission to the programme. The course fee has been fixed at ₹25,000 plus GST (total ₹ 29,500) per person.

Participants need to arrange their own accommodation. The details may be found at: <https://www.cftri.res.in/sdp> or contact Head, Flour Milling, Baking and Confectionery Technology, Email: fmbct@cftri.res.in; 0821-2517730 (off) or 9448093080 (Mob). The last date for registration is November 1.

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[The Hindu](#)

Hyderabad goes green this Diwali

CSIR-NEERI

26th October, 2021

The green crackers have been making headlines every Diwali for the last few years. Unlike earlier years which saw only limited availability of green crackers in the market, this time, the firecracker dealers' association is confident that most crackers available in Hyderabad will be eco-friendly.

The National Environmental Engineering Research Institute (NEERI) has prepared the chemical formula for the green crackers that all the manufactures were asked to adopt. Our stock of crackers comes from Sivakasi in Tamil Nadu, and they have followed all the instructions. So, about 80 per cent of the crackers that will be available in Hyderabad's market this year will be green crackers.



The remaining 20 per cent are left overs from last year's stock. I am hopeful that from next year, 100 per cent crackers sold in Telangana will be eco-friendly," shares K Venu Gopal, General Secretary, Telangana Fire Works Dealers Association (TFWDA), who also owns a whole selling firecracker shop at LB Nagar.

Pratap Kumar, the Treasurer of TFWDA as well as of All India FireWorks Dealers Association, points out that being forewarned about the instructions helped them get all the stock well within time for the festival.

“Last year the problem was that most of the dealers had already bought the crackers when the National Green Tribunal (NGT) ordered the use of green crackers in the country. However, we are prepared this year. We understand the importance of eco-friendly crackers, and are happy to adopt the change. Many retailers have already placed their orders and started setting up the stalls,” he says.

Dealing with the increasing pollution daily, the citizens too are in favour of using a more environmentally conscious option.

Dr Deepesh Mathur, a city-based dentist, says that we can have a grand celebration and be eco-conscious at the same time. “India is among one of the most polluted nations. The use of toxic crackers only adds to the pollution every year. They not just harm the environment, but create many issues for patients with breathing issues, senior citizens and even animals. I believe that green crackers are a better option when celebrating the festival, as the emission is not as harmful,” he says.

Understanding Green Crackers:

Green crackers are developed using a chemical formula that makes them less harmful for the environment than the conventional ones.

In the green crackers, the usual polluting chemicals such as Aluminium, Barium, Potassium, Nitrate and Carbon are either cut down to reduce emissions by about 30 per cent or completely removed. These crackers have been developed by CSIR’s National Environmental Engineering Research Institute (NEERI).

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राष्ट्रीय वनस्पति अनुसंधान संस्थान ने 68वां वार्षिक दिवस मनाया

आजाद एक्सप्रेस

लखनऊ। सीएसआईआर राष्ट्रीय वनस्पति अनुसंधान संस्थान ने अपना 68वां वार्षिक दिवस मनाया। इस अवसर पर प्रो. केपी गोपीनाथन विशिष्ट प्रोफेसर भारतीय विज्ञान संस्थान, बेंगलुरु, मुख्य अतिथि के रूप में उपस्थित थे।

कार्यक्रम में संस्थान की वार्षिक रिपोर्ट प्रस्तुत की गयी। संस्थान के निदेशक प्रो. एसके बारिक ने वार्षिक प्रगति के विषय में बताया कि संस्थान ने वनस्पति विज्ञान से सम्बंधित कुल 132 परियोजनाओं पर अनुसंधान एवं विकास कार्य को आगे बढ़ाया है। साथ ही संस्थान द्वारा कोरोना महामारी के दौरान हर्बल हैण्ड सैनीटाईजर, मास्क स्ट्रेस रिड्यूसर उत्पादों के साथ तीन अन्य वनस्पतियों पर आधारित उत्पादों को विकसित करके उनकी प्रौद्योगिकी



विभिन्न उद्योगों को हस्तांतरित की गई। जिनमें हल्दी की पत्तियों पर आधारित फ्लोर मॉप, युरोलिथिअसिस (गुर्दे की पथरी) कम करने की हर्बल दवा एवं पारंपरिक काढ़ा शामिल हैं। महामारी के दौरान कोरोना टेस्ट की क्षमता बढ़ाने के लिए वाईरोलॉजी प्रयोगशाला की स्थापना कर अगस्त तक लगभग दो लाख साठ हजार कोरोना नमूनों की जाँच की गयी। वहीं संस्थान द्वारा प्रदेश

के आर्सेनिक-दूषित जिलों में आर्सेनिक प्रदूषण का आंकलन और निगरानी करने के प्रयासों में महत्वपूर्ण कार्य किए हैं। सीएसआईआर अरोमा मिशन के अंतर्गत संस्थान द्वारा ओडिसा के नबरंगपुर के किसानों को हल्दी की खेती की नवीन जानकारी के साथ संस्थान द्वारा विकसित जैविक खाद का भी वितरित किया गया। जिससे फसलों की पैदावार बढ़ाई जा सके।

वैज्ञानिक बढ़ाएंगे एलडीए पार्कों की सुंदरता

लखनऊ। राजधानी में एलडीए के पार्कों में बोनसाई जैसी खूबसूरती के साथ हरे-भरे पॉकेट भी दिखाई देंगे। राजधानी के लिए ग्रीन लंग की तर्ज पर पार्कों के इस विकास में सहयोग एलडीए का नेशनल बॉटनिकल रिसर्च इंस्टीट्यूट के वैज्ञानिक करेंगे। एक एमओयू भी एलडीए और एनबीआरआई के बीच सोमवार को हुआ। एमओयू पर साइन के समय एलडीए के सचिव पवन गंगवार और एनबीआरआई के निदेशक डॉ. एसके बारिक मौजूद रहे। सचिव ने बताया कि पार्कों को दो तरीके से संवारने का काम होगा। एक पार्कों में लगने वाले पौधों और ग्रीनबेल्ट के विकास पर वैज्ञानिक अपनी सलाह देंगे। दूसरे, एलडीए के कर्मचारियों का प्रशिक्षण भी वैज्ञानिकों की टीम करेगी। (माई सिटी रिपोर्टर)

ग्रीन लंग्स की तर्ज पर अब पार्क विकसित होंगे

एनबीआरआई

लखनऊ | मुख्य संवाददाता

राष्ट्रीय वनस्पति अनुसंधान संस्थान (एनबीआरआई) राजधानी के पार्कों को ग्रीन बेल्ट के रूप में विकसित करने में एलडीए की मदद करेगा। पार्कों को ग्रीन लंग्स के रूप विकसित किया जाएगा। कश्मीर के प्रसिद्ध शालीमार गार्डन की तर्ज पर संवरेंगे।

सोमवार को संस्थान के 68वें वर्चुअल वार्षिक समारोह में संस्थान और एलडीए के बीच इस संबंध में एक समझौते पर हस्ताक्षर किए गए। वैज्ञानिकों ने बताया कि संस्थान के पास उपलब्ध पुष्पकृषि तकनीक की मदद से पार्कों ग्रीन लंग्स के रूप में तैयार किए जाएंगे। एलडीए के सचिव पवन कुमार गंगवार ने कहा कि एनबीआरआई अपने प्रसिद्ध वनस्पति

● 68वें वार्षिक समारोह में समझौते पर हस्ताक्षर

वाइरोलॉजी लैब बनाई

संस्थान के निदेशक प्रो. एसके बारिक ने बताया कि कोरोना काल में एनबीआरआई ने खूब मेहनत की। डाक्टरों के साथ कंधे से कंधा मिलाकर काम किया। कोरोना टेस्ट की क्षमता बढ़ाने के लिए संस्थान ने आधुनिक वाइरोलॉजी प्रयोगशाला की स्थापना की थी। इसमें अगस्त 2021 तक 2.60 लाख कोरोना नमूनों की जांच की गई।

उद्यान के लिए जाना जाता है। इस समझौते के साथ लखनऊ विकास प्राधिकरण शहरी बागवानी, बोनसाई जैसे नवीन तरीकों से पार्कों को विकसित करेगा।

NBRI signs pact with LDA for dev of parks

PNS ■ LUCKNOW

An agreement was signed by NBRI with Lucknow Development Authority on Monday on the occasion of NBRI's Annual Day. With this agreement, the expert scientists of the institute will jointly work to develop the city parks as green lungs.

NBRI director Dr SK Barik said that with the floriculture techniques and strategies available with the institute, the parks will be upgraded on the lines of the famous Shalimar Park of Kashmir.

Secretary, LDA, Pawan Kumar Gangwar said the Botanic Garden of NBRI is world famous and the agreement will help LDA develop its parks in innovative ways like urban horticulture, bonsai etc, so that public can get maximum awareness.

NBRI celebrated its 68th Annual Day online on Monday. Prof. Honorary professor, Indian Institute of Science (Bengaluru), KP Gopinathan was the chief guest at the function. He delivered the Annual Day lecture on 'Hanging by the silk thread'.

NBRI's Annual Report 2020-21 was released by the dignitaries. Dr Barik presented the annual progress report and briefed about some of the major achievements made by the institute. He said that during the pandemic, the institute worked on a total 132 research developmental projects on different aspects of plant science.

"NBRI developed a range of herbal hand sanitisers and herbal mask stress reducer, besides three other herbal products. These herbal products are floor mop (turmeric leaf essential oil based), herbal formulation useful in urolithiasis, and traditional kadha. NBRI also established an advanced virology laboratory for ramping up Covid testing. The facility tested nearly 2.6 lakh samples till August 21," he elaborated.

Prof Gopinathan elucidated about the silk producing silk worm and also briefed about how insects and worms are important as the most diverse organisms and provide an excellent example to understand the diversity in the evolutionary system.



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