





NEWS BULLETIN

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CSIR-NEERI

10th December, 2020

India should maximize its exports, create jobs: Gadkari SIR-National Environmental Engineering Research Institute 15-(CSIR-Neeri), in association with ministry of science & technology and Earth Sciences, Vigyan Bharati

(VIBHA) and CSIR-National Institute of Science, Technology and Development Studies (CSIR-NISTADS), recently organized a curtain raiser as a precursor event of India International Science Festival (IISF)-2020 at Smriti Van. Union minister Nitin Gadkari was the chief guest. Prominent among others who were present included director general of CSIR and secretary of DSIR Dr Shekhar Mande, Jayant Sahasrabudhe, national organizing secretary of VIBHA, Dr Satish R Wate, former director of CSIR-Neeri and president of VIBHA-Vidarbha, Dr Rakesh Kumar, director of CSIR-Neeri), Sudha Tiwari, president of SHAKTI, and Dr Atya Kapley, head of DRC, CSIR-NEERI. Gadkari delved into needs of India to maximize exports, minimize imports, create new employment opportunities and increase GDP through proper application of science and technology. Dr Sukdeb Pal proposed a vote of thanks.

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CSIR-NEERI



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Dainik Bhaskar

बात पर बल दिया। वे भारत अंतरराष्ट्रीय विज्ञान महोत्सव आईआईएसएफ-2020 की (आईआईएसएफ) के 'कर्टेन रेंजर समारोह' में मुख्य पुस्तिका, जिसमें सीएसआईआर अतिथि के रूप में बोल रहे थे। कार्यक्रम का आयोजन द्वारा आयोजित किए जाने वाले विज्ञान प्रौद्योगिकी एवं पृथ्वी विज्ञान मंत्रालय, विज्ञान भारती कार्यक्रमों की समग्र सूचना दी और राष्ट्रीय विज्ञान प्रौद्योगिकी और विकास अध्ययन गई है का विमोचन किया गया। संस्थान (सीएसआईआर) के संयुक्त तत्वावधान में नीरी संचालन डॉ. अत्या कपले ने के स्मृति वन में किया गया। इस अवसर पर डॉ. शेखर मांडे, और डॉ. सुकदेव पाल ने आभार जयंत सहस्त्रबुद्धे, डॉ. सतीश आर. वटे, डॉ. राकेश कुमार, व्यक्त किया। सुधा तिवारी और डॉ. अत्या कपले उपस्थित थे।





CSIR-CCMB & Apollo hospitals announce collaboration for development of rapid & safe COVID-19 testing kits

CSIK-CCMB

Representational Image | apollohospitals.com

10th December, 2020



The sample collection centres can send dry nasal or oropharyngeal swabs to testing centres with no need for the imported and expensive Viral Transport Medium. The biological sample can be directly isolated from the patient swabs, and testing using a one-step protocol. The current gold-standard method, on the contrary, requires many expensive reagents and steps that add to the expertise, money and time required for the tests. The DArRT-PCR test reduces the time and human effort by 40-50% in the current setting of testing. Dr Rakesh Mishra, Director, CSIR-CCMB applauded this collaboration and said, "As people are getting back to their normal lives and businesses, it is important for us to ramp up our testing for the coronavirus. The virus will be here for some time, it seems, and those who test more frequently will be able to contain the impact of COVID-19 better. Cheaper, rapid, accurate and easy to use tests as these are the need of the hour. With Apollo and its vast network of hospitals and health services, we expect impacting many lives towards better health."

CSIR-Centre for Cellular & Molecular Biology (CCMB) and the Apollo Hospitals Enterprise Ltd. today announced a collaboration for joint manufacturing and commercialization of an innovative dry swab test, Direct Amplification rapid RT-PCR (DArRT-PCR) – for SARS-CoV-2 detection. The test has been developed by CSIR-CCMB and the collaboration with Apollo Hospitals will focus on scaling up manufacturing and commercialization of the tests jointly. The rapid, safe and costeffective DArRT-PCR tests will be available nationally through the Apollo Hospitals network. The DArRT-PCR test allows for rapid, safer and more cost-effective SARS-COV-2 testing.





Dr Sangita Reddy, Joint Managing Director, Apollo Hospitals Group said, "We are glad to collaborate with CSIR-CCMB in this path-breaking initiative of a more rapid, easy to use and accurate testing option and work to make it available nationwide. The Apollo Hospitals Group has always been at the forefront of cutting-edge medical technology and a pioneer in implementing the latest advances for the benefit of patients. Co-creating and commercialising an Indian solution in line with our Hon'ble Prime Minister's vision of Atmanirbhar Bharat is an important landmark for Apollo Hospitals. As India continues to unlock, casy availability of cost-effective, reliable testing for COVID-19 is the key to getting back to normal. Widespread testing will enable quick identification, immediate isolation and early treatment to prevent spread. With nearly half of all COVID-19 infections are transmitted by people who are asymptomatic, these easy and quick tests will go a long way in facilitating the identification of infected individuals who may be asymptomatic or presymptomatic. These tests will give a

boost to the efforts to mitigate the effect of COVID-19 and will play a major role in controlling the pandemic."







CSIR-CFTRI in pact with Bengaluru firm for Covid-19 virus sequencing



9th December, 2020



more than 1,000 samples are tested daily. CFTRI is also working on the development of novel dipstick and aptamer-based diagnostics in collaboration with private parties.

Mysuru-based Council of Scientific and Industrial Research-Central Food Technological Research Institute (CSIR-CFTRI) has signed a memorandum of understanding with Clevergene of Bengaluru on Covid-19 virus sequencing. It is expected that the study would provide insights into virus genome changes (mutations), evolution, epidemiology, and

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provide an understanding of the spatial and temporal information on infection dynamics of the SARS-CoV-2. Under the MoU, development of novel diagnostics and vaccines for Covid-19 are envisaged. CSIR-CFTRI has also established a Covid Testing Centre in Mysuru, and on an average,





CSIR-CSMCRI

9th December, 2020



drug to treat Covid patients

Suppressant Effective In Halting Virus Multiplication

@timesgroup.com

Rajkot: Anti-viral agents like remdesivir have proved effective in Covid-19 treatment as they limit the multiplication of the virus inside the body, thus stopping the infection from spreading further. Now, scientists at the reputed Central Salt and Marine Chemicals Research Institute (CSMCRI), have found another compound from the existing drugs, whose anti-viral action could potentially be more effective medicine in the category of RdRp inhibitors, the drug which prevent multiplication of virus. Scientists are optimistic that the discovery, which has been made after months of research, is significant as the World Health Organization(WHO)hadissuedanadvisory against the use of remdesivir for Covid-19 treatment last month.

SIGNIFICANCE OF STUDY

 The analysis of 100 remdesivir-like compounds was done through globally approved 'in silico' study

The study helps predict how particular drugs already used in treatment could treat multiple-drug-resistant and extensively drug-resistant strains.

WHAT ARE RORP INHUBITORS?

RNA-dependent Reverse Polymerase is a protein encoded in all viruses containing RNA

Coronavirus is a single strand RNA virus

 RdRp helps multiply the virus once it enters the human body

The disease is a lock

 RdRp inhibitors are drugs that halt this mulitiplication process
Remdesivir, Favipiravir are widely used RdRp inhibitors in infected patients

66 It's an exciting discovery. At

dynamics (MD) simulations have played an key role in

Molecular

new

drug

discovery

processes

Several

are being

meet the

Covid-19

treatment

docking studies

carried out to

urgent need of

new drugs for



remdesivir. The findings have been published in the reputed US publication "The Journal of Physical Chemistry B" of the American Chemical Society. The research was carried out by scientists Dr Bishwajit Ganguly, Dr Shibaji Ghosh and Padmaja Wakchaure.

Talking to TOI Dr Ghosh said, "When you design a drug, it's very necessary to see that it will interact with the human body. We have prepared drug molecules which can be proved more effective than remdesivir."

als on animals and humans to establish its efficacy in Covid treatment added team leader Dr Ganguly. The new drug was derived from repurposing drugs, which are essentially those used in the trial of any other similar genre virus like SARC 1 or Ebola in which it remained successful.

The new compound was found the analysis of 100 that were structurally similar to However, the new compound needs in vitro (a laboratory study) and clinical tri-

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CSIR-CSMCRI



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વિજ્ઞાન ગુર્જરી, CSMCRIનું આયોજન

સેન્ટ્સ સોલ્ટ દારા ઇન્ડિયા સાયન્સ ફેસ્ટિવલ યોજાયો ભારતને આત્મનિર્ભર બનાવવાનો ઉદેશ લોકોને એક સાથે લાવવાનું દેશનું રાઅર્લકટી 8 ડ્રિલેમ્બર સૌથી મોટું એક પ્લેટફોર્મ છે. આ સેન્ટ્રલ સોલ્ટ દ્વારા તાજેતરમાં છકા પ્રોગ્રામ યુવા પેઢીને વિજ્ઞાન ક્ષેત્રે

ફેસ્ટિવલનું આયોજન કરવામાં માટેનો છે.આ કાર્યક્રમમાં સમગ્ર આવ્યું હતું. જેમાં 22થી 25 ડિસેમ્બર ગુજરાતમાંથી સદસ્યો MS Team દરમિયાન વીડિયો કોન્ફરન્સના વિડીયો કોન્ફરન્સ દ્વારા ઉપસ્થિત રહ્યા માધ્યમથી યોજાનારા છટ્ટા ઇન્ડિયા હતા. કાર્યક્રમ બપોરના 3:30 કલાકે ઇન્ટરનેશનલ સાયન્સ ફેસ્ટિવલને શરૂ થયો હતો. જેમાં હની બી નેટવર્કના લોકપ્રિય બનાવવા તથા આત્મનિર્ભર ફાઉડર અને આઈ.આઈ.એમ. ના ભારત બનાવવાનો છે. IISF 2020એ સંશોધન ક્ષેત્રે ચારસત યુનિવર્સિટીના પ્રોવોસ્ટ

ઈન્ડિયા ઇન્ટરનેશનલ સાયન્સ ભારતને આત્મનિર્ભર બનાવવા વીઝીટીંગ પ્રોફેસર ડો. અનિલ ગુપ્તા,

ભારતની સિદ્ધિઓની ઉજવણી અને ડો. પંકજ જોશી, જી.સી.ઈ.આર. આત્મનિર્ભરતા તેમજ વિશ્વ માટે ટી. ના નિર્દેશક ડી. ટી.એસ. જોશી જરૂરી વિજ્ઞાનનો ફાળો આપવાના અને ગુજરાત પ્રાંત વિજ્ઞાન ગુર્જરી હેતુ સર વિદ્યાર્થીઓ, સંશોધનકારો, તરફથી ડો. વિદ્યાધર વૈદ્ય ઉપસ્થિત ઈનોવેટર્સ, કલાકારો અને સામાન્ય રહ્યા હતા.

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CSIR-NML

8th December, 2020



Mail News Service

Jamshedpur, Dec 7 : National Metallurgical Laboratory (CSIR-NML) and Indian Air Force (IAF) on Monday signed a MoU in the field of Research and Development (R&D). A top level IAF delegation led by Air Marshal Vibhas Pande VSM, Air Officer in charge Maintenance along with senior officials of NML signed the agreement.



allied engineering domains "During the visit, discus- with an aim to decide on ability and serviceability of sions were held on the aspects of collaborations areas of prime national between IAF and CSIR-

ment of improving the relitheir legacy assets, with emphasis on material

refurbishment, reclama- shops and tion, simulation of material behaviour and increasing the envelope of operations

knowledge exchange were highlighted. During the visit, the IAF

tions were held on various issues, and interactive technical presentations were made by both organizations. The visit culminated in the signing of MOU for cooperation in activities of interest to IAF and within the domain expertise of CSIR-NML.

National The Metallurgical Laboratory, Jamshedpur is the third in the Council of Scientific and Industrial Research (CSIR) family of 38 laboratories. The laboratory was formally inaugurated and dedicated to the nation

NML," said an official of on the November 26, 1950 interest in the field of were brought out. The need team visited the R&D informatics, substitution, for HR development facilities of CSIR-NML, NML. The IAF delegation life extension and indigeni-Pandit Jawaharlal materials, metals, corroby through training, work- discussions and deliberasation. The importance of Nehru. (W-pb) stressed upon the requiresion science and other

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CSIR-NML

8th December, 2020

सीएसआईआर-एनएमएल के साथ भारतीय वायु सेना ने किया एमओयू,रिसर्च साझा करने पर सहमति

वाय सेना के हथियारी को उम्र बढ़ायगा एनएमएल जमशेदपुर वरीय संवाददाता जमशेदपुर के लिए सोमवार का दिन ऐतिहासिक रहा। भारतीय वायु सेना ने बर्मामाइंस स्थित सीएसआईआर-एनएमएल के साथ एक एमओयू पर हस्ताक्षर किया। करार के तहत वायु सेना के उपकरणों व हथियारों की उम्र बढ़ाने में मदद करेगा एनएमएल। सीएसआईआर–एनएमएल के साथ एमओयू के बाद वायु सेना व संस्थान के पदाधिकारी। एनएमएल वायु सेना के साथ अपने मैटेरियल्स को लेकर किये जा व अन्य इंजीनियरिंग के रिसर्च को पर हस्ताक्षर किये। एनएमएल के रहे अविष्कारों को साझा करेगा। निदेशक डॉ. इंद्रनील चट्टोराज भी वायु सेना से साझा किया जाएगा। सोमवार को भारतीय वायू सेना के यह सेना के हथियारों व उपकरणों मौजूद थे। डॉ. इंद्रनील चट्टोराज ने मेंटेनेंस विभाग के ऑफिसर इंचार्ज को बेहतर और व उनकी उपयोगिता बताया कि इस एमओयू के माध्यम एयर मार्शल विभास पांडे ने एमओयू व आयु बढ़ाने में मदद करेगा। से मटेरियल्स, मेटल्स, युद्ध विज्ञान

स्वदेशी एयरक्राफ्ट्स बनाने में मदद करने का करार डॉ. इंद्रनील ने बताया कि मेक इन इंडिया के तहत भारत अधिक से अधिक संख्या में स्वदेशी एयरकाफ्ट्स और हथियार बनाना चाहता है। एनएमएल को बेहतर फाइटर जेट्स व हेलीकॉप्टर के धातू बनाने को कहा गया है।

मेंटिनेंस सेल को प्रशिक्षण : प्रो. इंद्रनील ने बताया कि इस एमओयू के तहत एनएमएल के वैज्ञानिकों की टीम वायू सेना की मेंटिनेंस व प्रोडक्शन सेल को प्रशिक्षण भी देंगी।







CSIR-NCL, NEERI

7th December, 2020

The Council of Scientific and Industrial Research (CSIR)-run National Chemical Laboratory (NCL) has set up an environment-friendly sewage treatment plant (STP) developed by National Environmental Engineering Research Institute (NEERI), Nagpur, on its Pune campus.

The NCL is first to adopt this technology for treatment of sewage. The NEERI developed technology is Phytorid-based for domestic and industrial sewage treatment with higher stability to recover, recycle, and reuse treated water.







UDIC



CSIR to decide on human clinical trials of Molnupiravir — a drug that blocks SARS-CoV-2 in 24 hours

7th December, 2020



trials with a new promising antiviral drug, collaboration with pharmaceutical firm Merck. By taking the drug orally, treatment can be Molnupiravir, will be taken at the strategic initiated early for preventing the condition of the group meeting of the Council of Scientific patient from becoming severe. Dr Mande and Industrial Research (CSIR) on Monday explained that the drug is basically an inhibitor evening. A study published in Nature of RNA in cells and does not allow it to make Microbiology, shows how this repurposed copies of the virus. "Other drugs also do drug suppresses SARS-CoV2 transmission something similar but it is exciting to see that within 24 hours. Dr Shekhar Mande, transmission being blocked in ferrets." There is a Director General CSIR told The Indian basket of drugs which are under consideration. Express that this is an exciting There are several on the priority list — for development. "Researchers in the US have instance, the drug umifenovir which is mainly shown how the transmission is blocked in used for treatment of influenza has potential to ferrets. It is like any other anti-flu drug and be used against <u>Covid-19</u> and is undergoing was on our list of drugs to go into clinical clinical trials, Dr Mande said. Published in: trials. We will take it up soon. A meeting The Indian Express will be held this evening to decide,"

Dr Mande said. The study, published by researchers at the Institute for Biomedical Sciences, Georgia State University, claims that a new antiviral drug has been designed which successfully suppresses the SARS-CoV-2 virus and inhibits transmission within 24 hours. According to the researchers, this is the first oral antiviral drug to quickly block SARS-CoV 2. Molnupiravir is being developed by the A decision on conducting human clinical biotechnology firm Ridgeback Biotherapeutics in





2 vaccines to get emergency use nod by Jan



6th December, 2020

Two coronavirus vaccine candidates — Serum Institute's Covishield and Bharat Biotech's Covaxin that are in the phase 3 trials — could be eligible for emergency use in India by January 2021, Dr Randeep Guleria, Director, All India Institute Of Medical Sciences (AIIMS), Delhi, has said. Sources said that emergency approvals for inoculation of vaccine can be given to overcome the pandemic. Guleria's statement comes against the backdrop of the United Kingdom (UK) approval of the Pfizer Inc's coronavirus vaccine.

Guleria is also a member of the national task force on Covid-19 management. He also said that coronavirus vaccines which would be available for emergency use in India by next year

will first be administered to the vulnerable and the frontline workers engaged in the battle against Covid-19 since the beginning of 2020. Experts in the sector too have maintained that vaccines will be available only after the drug regulator, DCGI, is convinced of its efficacy against the Covid-19.

Ram Vishwakarma of the Council of Scientific and Industrial Research-Indian Institute of Integrative Medicine (CSIR-IIIM) said that the emergency use authorisation (EUA) procedure in India is similar to that in the European Union, the United Kingdom and the United States, as per a report. "Were Pfizer to apply in India to the regulator here, it could, in theory, be

approved within days or weeks here, depending on whether the Drug Controller is satisfied with the data. If the situation so demands, the regulator has the power to waive or recommend more tests, and doesn't necessarily require Indian data," he said.

If India gets emergency use approval, it would mean that the companies would get permission for a limited time to administer the coronavirus vaccine to overcome the crisis. To get formal approval, the company will have to submit all data on the drug's efficacy, side-effects and adverse events to the regulator for the latter to decide if the drug should be approved.





Addressing an all-party meeting with the State representatives to discuss the coronavirus situation on Friday, PM Narendra Modi too had said the pricing of the coronavirus vaccine and its distribution are being discussed with the States. Modi also maintained that the priority would be given to the frontline workers who have been at the forefront of the fight against

the infection.

"Nearly eight vaccines are on other stages of trial with their manufacturing assured in India. Three coronavirus vaccines from India are at different stages. Experts think that the vaccine isn't too far away. In the next few weeks, a coronavirus vaccine could be ready for India," he had said.





CSIR-IMMT



6th December, 2020



Union ministers Harsh Vardhan and Dharmendra Pradhan at the event

Sandip Mishra TNN

Bhubaneswar: The CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT), Bhubaneswar, on Saturday organised a virtual curtain-raiser outreach programme for the India International Science Festival (IISF), 2020, jointly with Vigyan Bharati. The IISF-2020 will be held online from December 22 to 25.

Inaugurating the programme, Union minister of science and technology Harsh Vardhan said, "The IISF educates the present generation about how India has been an inspiration to the world for new thoughts, ideas and innovations over the centuries. This effort will fuel the country's drive towards becoming a Vishwa-Guru." The theme of IISF-2020 this year will be 'Science for self-reli-

ant India and global welfare'. Students, teachers, researchers, scientists, technocrats, industrialists, innovators, entrepreneurs, craftsmen, artisans, farmers, diplomats and policy makers, among others, will be a part of this mega festival.

Union petroleum and natural gas minister Dharmendra Pradhan also attended the event as chief guest and appealed to the scientific community to innovate for India and create a competitive advantage to make the country self-reliant. He also asked them to create products and services that can compete with the best in the world. "The Covid-19 pandemic has once again showed that we have to develop and strengthen our institutional and industrial capacity in scientific knowledge and innovation in all areas," Pradhan said.

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CSIR-IMMT



6th December, 2020



साइंस फेस्टिवल-2020

• नवभारत ब्यूरो.। भुवनेश्वर. www.navabharat.news सीएसआईआर-इंस्टीट्यूट ऑफ मटिरियल्स मनरल्स एड टेक्नोलॉजी, भुवनेश्वर ने विजनन भारती के साथ संयुक्त रूप से इंडिया इंटरनेशनल साइंस फेस्टिवल-2020 को लेकर आभासी पटल पर एक कार्यक्रम आयोजन किया. इस अवसर पर केंद्रीय मंत्री डॉ हर्षवर्धन और धर्मेंद्र प्रधान मुख्य अतिथि के रूप में उपस्थित थे. विशेष अतिथि के रूप में डॉ शेखर महानिदेशक मांडे, सीएसआईआर और सचिव डीएसआईआर उपस्थित थे. प्रोफेसर निदेशक सुधास्वत बसु, सीएसआईआर-आईएमटीटी ने स्वागत भाषण दिया. कार्यक्रम का संयोजन डा विकास कुमार जेना, प्रधान वैज्ञानिक सीएसआईआर-आईएमएमटी ने किया. उल्लेखनीय है कि वर्चुअल प्लेटफॉर्म पर 22-25 दिसंबर 2020 के दौरान इंडिया इंटरनेशनल साइस फेस्टिवल-2020 का आयोजन होने जा रहा है. यह वर्चुअल प्लेटफॉर्म पर सबसे बडा विज्ञान महोत्सव है. इस वर्ष इसका विषय आत्मनिर्भर भारत और वैश्विक कल्याण के लिए विज्ञान है. स्कूली किसान, कृषि-क्षेत्र और स्वास्थ्य छात्र, शोधकर्ता, शिक्षक, राष्ट्रीय सेवाक्षेत्र, प्रदर्शक, राजनयिक, नीति अंतर्राष्ट्रीय और

देश के विकास के लिए विज्ञान की मुमिका महत्वपूर्ण : धर्मेंद्र प्रधान देश के विकास व लोगों के जीवन में उन्नति लाने के लिए विज्ञान और तकनीकी व इनोवेशन की भूमिका महत्वपूर्ण है . शनिवार को सीएसआईआर आईएमएमटी द्वारा आयोजित छठा भारतीय अंतर्राष्ट्रीय विज्ञान उत्सव 2020 को वीडियो कॉन्फ्रेंसिंग के दरिये संबोधित करते हुए केन्द्रीय मंत्री धर्मेन्द्र प्रधान ने ये बातें कहीं . आत्मनिर्भर भारत-विश्व कल्याण के लिए विज्ञान शीर्षक इस वर्चुअल कार्यक्रम में प्रधान ने कहा कि कोविद-19 की स्थिति आज इनोवेशन को महत्व देने के लिए नया मार्ग दिखाया है . इस अवसर पर उन्होंने देश के वैज्ञानिक समुदाय को वास्तविक जीवन में उद्योग एवं सामाजिक समस्या के समाधान करने की दिशा में आगे आने के लिए आह्वान किया है . आकाश विज्ञान से लेकर कृषि दवाई से लेकर तेल प्रकृति ज्ञात आदि क्षेत्रों में वैज्ञानिकों ने आत्मनिर्भर भारत की दिशा में काम किया है . उन्होंने कहा कि देश के वैज्ञानिक देश को आगे बढ़ाने के साथ–साथ विश्व का कल्याण के लिए

भी कार्य कर रहे हैं . इस कार्यक्रम में भारत सरकार के विज्ञान एवं प्रौद्योगिकी मंत्री हर्षवर्धन अन्य वरिष्ठ अधिकारी उपस्थित थे.

टेक्नोक्रेट, उद्योगपति, नवोन्मेषक, हिस्सा होंगे. इस दौरान मंत्री डॉ उद्यमी, शिल्पकार, कारीगर, हर्षवर्धन ने मुख्य अतिथि के रूप में अपने संबोधन में इसके खनिज और भौतिक संसाधनों अग्रणी होने की वैज्ञानिक, निमार्ताइस वर्चु अल मेगा उत्सव का भूमिका सराहना की.

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हिंग और केसर को खेती आत्मनिर्भर भारत की दिशा में 'एक अग्रजी की किया जा रहा प्रोत्सरिंग अई.एच.बी.टी. में विज्ञान यात्रा कार्यक्रम का आयोजन, केसर की खेती को किन्नौर, नंडी और चम्बा जिलों में किया जा रहा प्रोत्साहित भारतीय अंतर्राष्ट्रीय विज्ञान महोत्सन के अंतर्गत विज्ञान महोत्सन के अंतर्गत विज्ञान महोत्सन के अंतर्गत विज्ञान महोत्सन

अतिथियों और प्रतिभागियों का स्वागत करते हुए विज्ञान यात्रा के महत्व के बारे में बताया। आई.एच.बी.टी. के शोध एवं विकास, उपलब्धियों, परिकल्पना और उद्देश्यों का संक्षेप में विवरण प्रस्तुत करते हुए उन्होंने बताया कि संस्थान द्वारा हींग और केसर फसलों की खेती का विस्तार आत्मनिर्भर भारत की दिशा में एक अग्रणी कदम होगा। हींग के पौधों को लाहौल-स्पीति और मंडी जिलों के किसानों को उपलब्ध कराया गया है जबकि केसर की खेती को किन्नौर, मंडी और चम्बा जिलों में प्रोत्सातित को किन्नौर, मंडी और चम्बा जिलों में प्रोत्सातित को किन्नौर, मंडी और चम्बा जिलों में प्रोत्सातित के त्वा जा रहा है। सेब के विषाणुरहित पौधों को उत्तर-पूर्व के मिजोरम और अन्य राज्यों में उपलब्ध करवा कर वहां के किसानों की आर्थिकी को सुदृढ़ करने की दिशा में भी संस्थान ने महत्वपूर्ण भूमिका निभाई है। इसके अतिरिक्त संस्थान द्वारा किन्या म्यायें के किसानों की आर्थिकी को सुदृढ़ करने की दिशा में भी संस्थान ने महत्वपूर्ण भूमिका निभाई है। इसके अतिरिक्त संस्थान द्वारा किन्या म्यायें के पीड़ितों और कोरोना सामाजिक दायित्व के अन्तर्गत संस्थान ने रेडी टू ईट डिब्बा बंद खाद्य पदार्थ एवं एनर्जी और प्रोटीन युक्त बार इत्यादि को भारत में आए विभिन्न चक्रवातों से प्रभावित क्षेत्रों के पीड़ितों और कोरोना स्वायायें से प्रभावित क्षेत्रों के पीड़ितों और कोरोना	लागा को कावड– 19 स सुरक्षा प्रदान करन में भी अहम भूमिका निभाइ है। किसानों एवं उद्यक्तियों को वैज्ञानिक तकनीकों का प्रशिक्षण व जानकारी दी डा. संजय कुमार ने संस्थान द्वारा किए जिज्ञासा कार्यक्रमों, विज्ञान मेलों एवं प्रदर्शनियों, वैज्ञानिक–छात्र– अध्यापक संपर्क कार्यक्रमों, वैज्ञानिकों द्वारा स्कूलों में लोकप्रिय वैज्ञानिक संभाषणों द्वारा विज्ञान के प्रति जिज्ञासा उत्पन्न करने, किसानों एवं उद्यमियों को वैज्ञानिक संभाषणों द्वारा विज्ञान के प्रति जिज्ञासा उत्पन्न करने, किसानों एवं उद्यमियों को वैज्ञानिक संभाषणों द्वारा विज्ञान के प्रति जिज्ञासा उत्पन्न करने, किसानों एवं उद्यमियों को वैज्ञानिक तकनीकों का प्रशिक्षण देने जैसे प्रयासों के बारे में भी जानकारी दी। शेध कार्यों को जन-जन तक पहुंचाने के प्रयासों को सरराहा इस अवसर पर मुख्य वक्ता प्रो. शशि कुमार धीमान पूर्व कुलपति हिमाचल प्रदेश तकनीकी विश्वविद्यालय हमीरपुर ने विज्ञान एवं प्रौद्योगिकी में भारत का योगदान विषय पर अपना संभाषण दिया। प्रो. धीमान ने आधुनिक विज्ञान में भारतीय वैदिक विज्ञान की भूमिका एवं ऋषि–मुनियों की वैज्ञानिक सोच, आर्यभट्टके मोशन नैविगेशन तथा भास्कराचार्य के एस्ट्रोनॉमी पर किए गए कार्यों का भी उल्लेख किया। उन्होंने संस्थान द्वारा किए जा रहे शोध कार्यों को जन–जन तक पहुंचाने के लिए किए गए प्रायमें को भी सराहा।
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इंजीनियरिंग मॉडल कम्पीटिशन मीट एडं एक्सपो को लेकर सीरी संस्थान में कर्टन रेजर का आयोजन तीन दिसम्बर को किया जा रहा है। संस्थान निदेशक डा. पीसी पंचारिया ने बताया कि कर्टन रेजर कार्यक्रम में एसीएसआई के कुलपति तथा सीरी संस्थान के पूर्व निदेशक प्रोफेसर चन्द्रशेखर मुख्य अतिथि होंगे। बिदस कुलपति प्रो. सौविक

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