

CSIR in Media



CSIR in Media on
11th to 15th July 2019



Himachal bags Rs 4.5 crore skill development project from Centre

CSIR-IHBT

15th July, 2019

Shimla: The Himachal Pradesh government has bagged a Rs 4.5-crore skill-development project from the Centre for a period of three years to provide quality training in tools and techniques in biotechnology to Class XII students and graduates. The Union ministry of science and technology's department of biotechnology has initiated a new skill programme to provide hands-on training to educated youth in multi-disciplinary areas of biotechnology. Himachal Pradesh is one of the six states in the country in which this programme is being initially implemented. Arunachal Pradesh, Meghalaya, Odisha, Punjab and Uttarakhand have also been selected for implementing this programme. Due to the efforts of Himachal Pradesh Council for Science, Technology and Environment (Himcoste), the state has succeeded in bagging the project in the first phase.

HIMCOSTE member secretary D C Rana said the programme would be implemented in collaboration with Life Sciences Sector Skill Development Council and partnering institutes in the state, and efforts would be made to provide jobs to trained youth in relevant industries in and around the state.

For imparting skills training to biotechnology and life sciences students, HIMCOSTE has roped in eight best research laboratories and academic institutions of state, including CSIR-Institute of Himalayan Bioresource and Technology (CSIR-IHBT) in Palampur, ICAR-Central Potato Research Institute (ICAR-CPRI) and Himachal Pradesh University (HPU) in Shimla, Jaypee University of Information Technology in Wagnaghat, Shoolini University of Biotechnology and Management Sciences in Solan, Baddi University of Emerging Sciences and Technologies in Baddi, Himalayan Skill Development Centre in Kala Amb, and Eternal University in Baru Sahib (Sirmaur).

A large number of major industries for fast-moving consumer goods (FMCGs), food, pharmaceutical and beverages industries are located in Baddi-Baroti-Nalagarh, Paonta Sahib and Kala Amb. Some of these are already involved in imparting industrial skills training to students of some participating institutions.

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[The Times of India](#)

CSIR-CMERI

15th July, 2019

City-based scientists develop new biodiesel plant tech

Biodiesel from feedstock with free fatty acid up to 10%

TRIBUNE NEWS SERVICE

LUDHIANA, JULY 14

Scientists at the Centre of Excellence for Farm Machinery (CoEFM) here have developed the technology of 'Semi-continuous Biodiesel Plant'. This technology represents a simplified process to produce biodiesel from any feedstock having free fatty acid content up to 10%. It is a low-maintenance production technology, can be easily implemented anywhere at low capital cost and operated with lowest possible manual intervention. The plant is capable of utilising different types of waste edible oil and non-edible oils of jatropha, karanj, tung, mahua and jojoba as well as animal fat to produce quality biodiesel.

The CSIR-CMERI is commercialising its technology to help MSME units in the production of biodiesel-processing machinery.

New entrepreneurs and startups are taking part in developing successful business models and these have been transferred to more than five industries.

According to the CMERI Director, Prof Harish Hirani, CMERI is conducting research and developing technologies to utilise waste oils, biomass, and municipal solid waste for energy production. He urged industrialists to work together to bring this technology to achieve the government's target of higher energy dependence on renewable energy sources. At present, the institute is developing a fully automatic up-scaled



The technology being given to M/s Basudev Biodiesel LLP, Bhubaneswar, Odisha, in the presence of the CSIR-CMERI Director, Prof Harish Hirani. TRIBUNE PHOTO

ODISHA FIRM GETS NEW TECH

This developed technology was transferred to M/s Basudev Biodiesel LLP, Bhubaneswar, Odisha, in the presence of the CSIR-CMERI Director, Prof Harish Hirani, on Sunday. After signing the license agreement, Pramod Samantara, M/s Basudev Biodiesel LLP, Bhubaneswar, Odisha, expressed his gratitude to the CSIR for the support in this business endeavour and he also emphasised that there was huge market potential of biodiesel technology.

version of biodiesel plant, with many more features like utilising high FFA (Free Fatty Acid) oils and recovery of reactants and purification of byproducts.

Elaborating on the technology, its inventor and Principal Scientist, Dr Krishnendu Kundu, said biodiesel produced through this plant was a better energy alternative considering overall sustainability as it lowered the toxic emissions like carbon monoxide, nitrogen oxides and particulate matter etc. The technology is beneficial

for the biodiesel producers too as it will give them a profit of Rs 5-8 per litre with a payback period of less than one year.

Quality diesel

The technology was demonstrated to the industry, showcasing the easiness in operation and its maintenance. Various functions of the plant are controlled through a single control panel. It was assured that the biodiesel produced from this technology is comparative to normal diesel.

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The Tribune

Students of Kendriya Vidyalaya visit NML

CSIR-NML



Jamshedpur, July 13 : A group third batch, comprise 55 students of class XII Std from Kendriya Vidyalaya, Tatanagar accompanied by two teachers, Parmanand, Santwana Kabi visited CSIR-National Metallurgical Laboratory, Jamshedpur and interacted with scientists and research scholars in this morning under the Gigyasa programme, jointly collaborated by Ministry of HRD, Govt. of India and the Council of Scientific & Industrial Research, New Delhi. The students were thrilled to visit the laboratory and interact with scientists of different working group.

14th July, 2019

The programme was scheduled for 3 hours, which comprise CSIR & NML, Documentary film show and Laboratory visit. Dr. P.N. Mishra, Principal Scientist, welcome the students and teachers and briefed about the programme, discussed an overview of CSIR and NML, its contributions in different branches of Science & Technology also talked about natural resources like ores, minerals, rocks and its value for the development of minerals based and allied industries. Dr. S.K. Mandal, Chief Scientist and coordinator of the programme discussed about the basic idea about science and inspire students to pursue further study in science discipline. The students expressed their feelings, asked numbers of questions and clarify their doubt with scientists Dr. A, K, Sahu, Sr. Technical Officer has proposed a vote of thanks. Further a lab. visits programme was organized to get exposure of R&D environment. S.N. Heambram, Sr. Technical Officer has helped students during lab. visit. Students visited creep testing units of

Materials Testing & Evaluation Division and knew about fatigue, creep, fractures prevailing in different types of industrial components. Students got exposure of different machine like Servo Hydro Testing Machine, Servo Electrical Machine and Furnace. P.K. Roy, has talked about the role played by this unit towards solution of industrial problem. Students were impressed to observed various equipment and facilities available at the Analytical Chemistry Centre. Soni, has explained about the role of analytical chemistry division and discussed how this unit performing chemical analysis on minerals, ores, slag, water with the help of the state-of-the art equipment.

Dr.K.K. Sahu, Sr. Principal Scientist, Metals Extraction & Recycling Division has explained the recovery of metals like Copper, Nickel and Cobalt from the polymetallic Nodules and Tungsten from Industrial scrap.

Students further visited to the Urban ores recycling unit. Dr. Pankaj Choube, SRF has explained the different process and activities pertains to extraction of valuable metals from electronic appliance with experimented samples. Students has shown their interest to pursue project work in the e-waste area and they have asked questions and get suitable reply.

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[The Avenue Mail](#)

2,900 scientist positions lying vacant, says Union Science Minister

CSIR



We have devised a formula to fill the posts over time, says Director-General, CSIR

There are nearly 2,900 vacancies for scientists in the institutes supported by the Department of Science Technology (DST), said Union Science Minister Harsh Vardhan in a written reply in the Lok Sabha on Friday. The bulk of the vacancies are in laboratories and institutes of the Council of Scientific and Industrial Research (CSIR). The CSIR-Central Food and Technological Research Institute (CFTRI), Mysore has 111 posts vacant, the CSIR-Indian Institute of Chemical Technology

13th July, 2019
(IICT), Hyderabad 102 and the CSIR-National Chemical Laboratory, Pune, has 123 vacancies. The CSIR isn't looking to fill all posts at a go but has devised a recruitment formula and fill the posts over time, an official told *The Hindu*. "Filling it at a go would mean a similar shortfall after, say 20 years. What we're doing instead is following a formula that accounts for existing vacancies, the number of scientists who will retire. So we'll fill these vacancies over time," Shekhar Mande, Director-General, CSIR, said. He declined to specify the time-frame. The DST saw a marginal hike in the allocation in the 2019 Budget — ₹5,321 crore, which is ₹207 crore more than the 2018-19 Budget — and the CSIR was allocated ₹4,895 crore, up from the ₹4,572 crore last year. The Minister said the government was working to fill the gaps. "As and when a vacancy arises, the concerned laboratory/institute initiates steps to fill it up in accordance with the extant rules." While on one hand there are several schemes to attract more students,

women and disadvantaged groups to scientific careers, India has had challenges in ensuring decent jobs for researchers. For instance, a fellowship called INSPIRE that pays an assured salary to promising researchers for a fixed period and allows them to establish themselves in scientific institutions has invited criticism for not being able to ensure enough jobs for several of them after they complete their fellowships.

Published in:

[The Hindu](#)

CSIR-NEERI

13th July, 2019

Students learn science with fun at CSIR-Neeri initiative

TIMES NEWS NETWORK

Nagpur: Albert Einstein had once said, "Creativity is intelligence having fun". Students seemed to have understood this concept well at a five-day camp organized by CSIR-National Environmental Engineering Research Institute as part of 'Jigyasa', a student-scientist connect programme, that concluded on Friday.

Ashok Rupner, a professor at Indian Institute of Science Education and Research (IISER), Pune, made concepts of chemistry and physics easy for students by conducting various experiments to expand their horizons.

More than 270 students of Std VIII to XI from 25 schools from Maharashtra and Chhattisgarh had a fun and learn



CSIR-National Environmental Engineering Research Institute organized a student-scientist connect programme on Friday

time with Rupner who explained to them the importance of conducting experiments for better understanding of the interesting subject.

Rupner said mere reading books without doing practical experiments will not suffice. Study, coupled with experiments, alone can help understand the subject better.

"Science is a play between mind and reasons. One has to find an answer to 'what, when, where and why' for clarity of thought while studying," he said.

Theory is restricted to words while there is no end to performance. The one who is curious to know everything is a true learner, he added.

The objective behind

holding the student-scientist programme was to explore new talent and future scientists. The camp helped students in recognizing their interest in the world of science.

Anik Deo, a student of Std VIII at Kendriya Vidyalaya, Vayusena Nagar, said, "I feel happy after attending these sessions. My love for science has now increased drastically."

Ayushi Pattanayak of Std XI at Kendriya Vidyalaya, Durg, said, "I thank my school for giving me an opportunity to attend such an interesting session. Science students should read and also experiment for success."

Shrushti Tade of Std XI at New English School, Akola, said, "What we learnt is valuable and will be with us throughout life."

(Reporting by Anchal Bhatia)

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CSIR-NEERI

13th July, 2019

Students connect with scientists at 'Jigyasa'



Dr Rakesh Kumar, Director, CSIR-NEERI, addressing the students at the concluding function. Dr J S Pandey, Chief Scientist and Head, Climate Change and Skilling Division, also is seen on dais.

■ Staff Reporter

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) organised 'Jigyasa: Student-Scientist Connect Programme', which 240 students and 35 teachers of Kendriya Vidyalayas, Navodaya Vidyalayas, State Government and municipal corporation schools across Maharashtra and Chhattisgarh participated in.

On concluding day, students shared some ideas, thoughts and experiences based on their learning at CSIR-NEERI. Dr Rakesh Kumar, Director, CSIR-NEERI; Dr J S Pandey, Chief Scientist and Head, Climate Change and Skilling Division, addressed the students during the concluding programme. Dr Rakesh Kumar advised the students to inculcate science in day-to-day activities.

The objective of the programme was to provide exposure of research environment and simultaneously inculcate interest towards science among school students. During this five-day

programme, students and teachers visited laboratories and facilities of NEERI for hands-on science experiments on air, water and soil analysis, water purification techniques, treatment and management of municipal solid wastes, treatment, recycle and reuse of waste water, restoration of degraded lands, importance of various plants including bam-

boo for livelihood, solar to chemical conversion systems and devices, etc.

CSIR-NEERI scientists explained the scientific principles in the laboratories and fields, and interacted with the students. Mathematics and origami expert V S S Sastry demonstrated how Mathematics could be used in visualising planetary sizes in solar system. Dr Ashok Rupner, Programme Manager, Indian Institute of Science Education and Research (IISER), Pune, performed science and Maths activities using papers, straw, syringe tubes and demonstrated pumps, generators, motors, spinners, gliders, etc.

Vilas Chaudhari and Abhimanyu Bhelave from Raman Science Centre demonstrated several experiments relating to fundamental science.

The students were also involved in various science projects. Debate, quiz and poster competitions were also organised for the students.



Students enjoying a session during 'Jigyasa: Student-Scientist Connect Programme' at NEERI.

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The Hitvada

CSIR-NML

13th July, 2019

एनएमएल

एयरक्राफ्ट एक्सीडेंट इन्वेस्टीगेशन ब्यूरो के साथ नई दिल्ली में हुआ करार

विमान दुर्घटनाओं की जांच में करेंगे सहयोग

जागरण संवाददाता, जमशेदपुर : बर्माइंस स्थित राष्ट्रीय धातुकर्म प्रयोगशाला (एनएमएल) की विशेषज्ञता का इस्तेमाल अब अधिक व्यापक व कारगर तरीके से होगा। विमान दुर्घटनाओं के कारणों की जांच में एनएमएल की विशेषज्ञता का इस्तेमाल सिविल एविएशन विभाग कर सकेगा। इसके लिए गुरुवार को नई दिल्ली स्थित राजीव गांधी भवन में सीएसआइआर - एनएमएल व एयरक्राफ्ट एक्सीडेंट इन्वेस्टीगेशन ब्यूरो (एएआईबी) के बीच एमओयू (मेमोरैंडम ऑफ अंडरस्टैंडिंग) पर हस्ताक्षर किए गए। नागरिक उड्डयन मंत्रालय के सचिव प्रदीप सिंह खरोला की मौजूदगी में हुए समझौते पर सीएसआइआर एनएमएल के निदेशक डॉ. इंद्रनील चट्टोराज व एएआईबी के महानिदेशक अरविंदो हांडा ने हस्ताक्षर किए।



एमओयू पर हस्ताक्षर के बाद एनएमएल के निदेशक डॉ. इंद्रनील चट्टोराज, नागरिक उड्डयन मंत्रालय के सचिव प्रदीप सिंह खरोला व एएआईबी के महानिदेशक अरविंदो हांडा • जागरण

पांच साल के लिए हुआ समझौता : एनएमएल व एएआईबी के बीच हुए समझौते की अवधि पांच साल की है। एनएमएल के लिए

इसका फायदा यह भी होगा कि यहां के वैज्ञानिकों को उड्डयन से संबंधित समस्याओं पर शोध व विकास का अवसर मिल सकेगा।

सैन्य के बाद अब यात्री विमानों के भी आएगी विशेषज्ञता

समझौते पर हस्ताक्षर के बाद दिल्ली से दूरभाष पर एनएमएल के निदेशक डॉ. इंद्रनील चट्टोराज ने बताया कि विमान दुर्घटनाओं की जांच की विशेषज्ञता एनएमएल के पास है। सैन्य विमानों के मामले में यह संस्थान पहले से ही काम कर रहा है। इस समझौते के बाद यात्री विमानों के मामले में भी यह विशेषज्ञता काम आएगी। यात्री विमान कई मामलों में सैन्य विमानों से अलग होते हैं। इनका इंजन, बॉडी आदि अलग प्रकार के होते हैं। खासतौर से पूर्वी क्षेत्र में यात्री विमान के दुर्घटनाग्रस्त होने पर एनएमएल से तुरंत सहयोग मिलेगा और साथ मिलकर दुर्घटना के कारणों की जांच की जा सकेगी।

Published in:

Dainik Jagran

NML signs MoU with Aircraft Accident Investigation Bureau

CSIR-NML

13th July, 2019

Council of Scientific and Industrial Research (CSIR) NML signed an MoU with Aircraft Accident Investigation Bureau (AAIB) MoU on Thursday. The MoU was signed in presence of Pradeep Singh Kharola, secretary, Ministry of Civil Aviation, at Rajiv Gandhi Bhawan, New Delhi for utilising NML's laboratory facility and technical expertise for aircraft accident /incident Investigation and training of investigators. The MoU was signed by Dr. Indranil Chatteraj, director, CSIR-NML and Arvindo Handa, director general, AAIB. This MoU will be valid for five years and will provide opportunities to the scientists of CSIR-NML to carry out Research and Development activities on aviation related problems.

The Aircraft Accident Investigation Bureau (AAIB) is a division of the Ministry of Civil Aviation, Government of India which investigates aircraft accidents and incidents in India. Earlier, the Directorate General of Civil Aviation (DGCA) conducted investigations and gave information to the investigations established by the Court of Inquiry and the Committee Inquiry. A separate investigative agency was established to comply with the Standards And Recommended Practices (SARPs) of the International Civil Aviation Organisation (ICAO). The National 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 on the November 26, 1950 by Pandit Jawaharlal Nehru.

Published in:

[The Pioneer](#)

NCL student receives national tech innovation award

CSIR-NCL



Nalinee Suryawanshi receives the award from Vice-President M Venkaiah Naidu (HT)

Nalinee Suryawanshi, a research student of CSIR-National Chemical Laboratory (CSIR-NCL), Pune received the SRISTI- Gandhian Young Technological Innovation Award (GYTI 2019 on July 6 at Vigyan Bhavan, New Delhi. The award was presented to Nalinee by vice president M. Venkaiah Naidu, in the presence of Union Minister for Health & Family Welfare, Science & Technology and Earth Sciences, Dr. Harsh Vardhan, eminent scientist R. A. Mashelkar, and Dr. Renu Swarup, secretary, Department of Biotechnology. Nalinee received the award for developing the technology for 'Non-Catalytic

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deep desulfurization process using hydrodynamic cavitation' at CSIR-NCL under the guidance of Vinay Bhandari at Chemical Engineering and Process Development Division.

A graduate in Petrochemical Engineering from Dr. Babasaheb Ambedkar Technological University, Lonere, her doctoral work is mainly focused on "Studies in sulfur removal processes for transportation fuels".

Previously, she received the SERB-IGCW 2017 award at the 'Industrial Green Chemistry World 2017' conference. SRISTI (Society for Research and Initiatives for Sustainable Technologies and Institutions) has established three national awards with BIRAC (Biotechnology Industry Research Assistance Council) for innovative student projects in engineering, biotechnology, agriculture, pharmacy, material science and other applied technological domains. The awards were given to 21 young researchers

for innovations related to 42 categories this year. SRISTI-GYTI awards celebrate the spirit of student innovation in all the fields of engineering, science, technology and design through extremely affordable/frugal solution or the ones pushing the technological edge.

Published in:
[Hindustan Times](#)

CSIR-CMERI

12th July, 2019

CSIR-CMERI Jigyasa

CSIR-CMERI, Durgapur organised Jigyasa programme on July 9 which was chaired by Prof (Dr) Harish Hirani, Director, CSIR-CMERI, Durgapur. Around 130 students and teachers from Kendriya Vidyalaya, CMERI and Kendriya Vidyalaya, CRPF participated in it. The participants were appraised about the various aspects of solar energy and taken to the CSIR-CMERI Solar Park. Dr Hirani emphasised upon the unequivocal importance of moulding the young minds of the nation with a rational and scientific temper. The actual test of technology is realised when it is brought from 'Concept to Reality'. Only 2 per cent of the solar energy received by the earth is enough to provide power to the entire global population. It is impending upon the



practitioners of science & technology to harness this potential through innovative science & technology applications. Dr Harish Hirani also shared his concern about the mammoth menace of e-waste recycling and management.

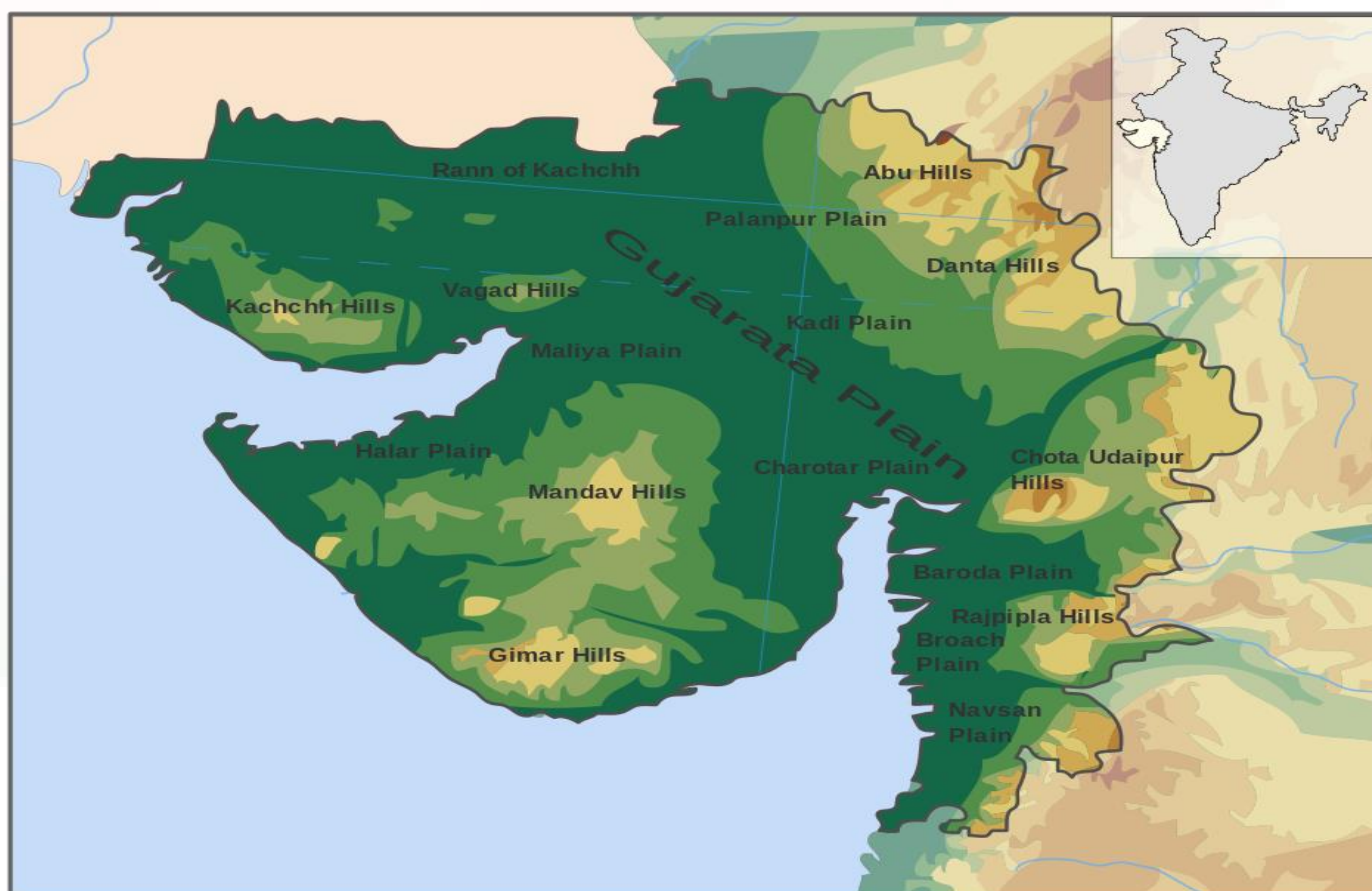
Published in:

The Times of India

Li-ion battery manufacturing cluster coming up at Gujarat's Dholera, Tata first to invest

CSIR-CECRI

12th July, 2019



Tata Chemicals has already signed MoUs with ISRO, CSIR-CECRI and C-MET to set up Li-ion cell manufacturing business along with recycling.

Tata Chemicals—part of the over US\$ 100 billion Tata Group—has committed an investment of Rs 4,000 crore to set up a 10 GW lithium-ion battery plant in Dholera Special Investment Region (DSIR) of Gujarat. Speaking about the investment, Jai Prakash Shivahare, managing director, Dholera Industrial City Development Limited (DICDL) told **pv magazine**: “The company [Tata Chemicals] will set up 1.7 GW capacity in the first phase at an investment of Rs 750-1000 crore and then

scale it to 10 GW as demand rises.”

“As the government is coming up with new incentives, they [Tata Chemicals] may scale up the capacity very quickly,” the IAS officer added. Notably, known for the ambitious solar park, the Dholera SIR is also going to host Li-ion batteries manufacturing cluster. “We are developing Li-ion battery manufacturing cluster in Dholera SIR,” Shivahare confirmed to **pv magazine** while adding that Tata Chemicals has already been allotted 126 acres land in DSIR to set up Li-ion battery manufacturing business. “The government of India is targeting 50 GW lithium manufacturing capacity in next few years. We will try to get maximum number of players to Dholera so that they can get the benefit of large cluster,” he added. Highlighting rational power tariff, encumbrance-free land and trunk infrastructure as the key advantages at DSIR, Shivahare said: “Our power tariff is already the lowest in the country and as battery manufacturing is power intensive, it makes a lot of sense for Li-ion battery

manufacturers to be in Dholera SIR. We also offer plug-and-play infrastructure and land is available for immediate allotment.”

Tata Chemicals’ lithium strategy

Tata Chemicals aims to become a leader in energy chemistry in India with focus on Li-ion cells manufacturing, cathode actives and recycling. For the purpose, it has signed memorandums of understanding with Indian Space Research Organisation (ISRO), Central Electrochemical Research Institute under Council of Scientific and Industrial Research (CSIR) and Centre for Materials for Electronics Technology (C-MET).

While ISRO would provide lithium-ion cell technology, CSIR CECRI will help Tata Chemicals with the technology for scaling up of manufacturing cathode materials for lithium-ion cells. C-MET will help develop technology for the recovery and purification of cathode and anode active ingredients from spent lithium-ion cells/batteries.

Published in:

[PV Magazine](#)

Four KV schools likely to be constructed by year-end

CSIR-CLRI



Construction of four Kendriya Vidyalayas in Tamil Nadu is likely to be completed by year-end, according to C. Mani, Deputy Commissioner, Kendriya Vidyalaya Schools, Regional Centre. He was speaking to reporters at the inauguration of 'Jigyasa 2019-2020' here on Wednesday. The programme, aimed at connecting students/teachers and scientists, was launched by the Central government in 2017 through a memorandum of understanding signed between Council of Scientific and Industrial Research labs and KV Schools. The three-day event is being held in Madurai and Tirunelveli. Mr. Mani said construction

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of KVs in Kittampalayam Border Security Force campus in Coimbatore, Idayapatti Indo-Tibetan Border Police campus in Madurai and Illupaikudi Indo-Tibetan Border Police campus in Sivaganga and Udumalpet would be completed soon. On 'Jigyasa', he said the event would help students to imbibe the spirit of inquiry. Scientists from the Central Leather Research Institute would help them to learn about several areas including gene amplification, supramolecular gels, magnetic levitation and leather research. "Students from three KV schools at Mandapam, Rameswaram and Narimedu are present. On the second day, we will entertain students from five schools. Most of them are from classes 11 and 12," he said. C. Muralidharan, Chief Scientist, CSIR-CLRI, Chennai, said the programme hoped to develop scientific temper in students. "I want students to ask questions. The emission of engineering and technology will feed scientific thought. It is a cyclic process to which students can contribute," he added.

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[The Hindu](http://www.thehindu.com)

CSIR-IMMT

11th July, 2019

सीएसआईआर प्रायोजित विजन ओडिशा कार्यक्रम में विचार-विमर्श

मध्यम उद्योगिता के क्षेत्र को एक छत के नीचे लाकर सशक्त बनाए जाए

भुवनेश्वर. सीएसआईआई-आईएमएमटी की ओर से सीएसआईआर प्रायोजित विजन ओडिशा नामका के एक कार्यक्रम आयोजित किया गया. 8 जुलाई को आयोजित इस बैठक में देश के विभिन्न हिस्सों में मौजूद सीएसआईआर और यूनीडो एवं ओडिशा सरकार के बीच अंतर्संबंध स्थापित करने के पर जोर दिया गया, ताकि प्रदेश में सूक्ष्म, लघु व मध्यम उद्योगिता के क्षेत्र को एक छत के नीचे लाकर सशक्त बनाए जाए. इस बेहद महत्वपूर्ण बैठक की शुरुआत सीएसआईआर महानिदेशक के सलाहकार डॉ. डी सेनगुप्ता ने की. आईएमएमटी के निदेशक प्रफेसर एस



बासु ने संबोधित किया. इस बैठक में वीडियो कॉन्फरेसिंग के जरिए भारत और दक्षिण पूर्व एशिया के यूनेडो प्रतिनिधि रेने भी बेरकेल ने भी संबोधित किया. इस बैठक में पूरे भारत के 12 सीएसआईआर प्रयोगशालाओं के वरिष्ठ वैज्ञानिकों और निदेशकों के

साथ राज्य सरकार के विभिन्न विभागों के वरिष्ठ अधिकारी, जैसे जल संसाधन, कृषि, विज्ञान और प्रौद्योगिकियों ने भाग लिया. बैठक के उद्देश्य को परिभाषित करते हुए डॉ. डी सेनगुप्ता ने बताया कि बैठक के विचार-विमर्श समग्र रूप से

सीएसआईआर प्रयोगशालाओं के संरक्षण में राज्य में एमएसएमई क्षेत्र के लिए कार्यक्रमों को लागू करने के लिए यूनेडो की भागीदारी को सुनिश्चित करने में एक महत्वपूर्ण कदम होगा. उन्होंने आगे बताया कि राज्य सरकार के सक्षम प्राधिकारी द्वारा समर्थन के बाद, राज्य में प्रौद्योगिकी हस्तक्षेप के संबंध में सिफारिशों को समर्थन के लिए यूनेडो को भेज दिया गया है. इस अवसर पर प्रो.बासु ने कहा, इस तथ्य पर विचार करते हुए कि वर्तमान में राष्ट्रीय सकल घरेलू उत्पाद में एमएसएमई का योगदान बहुत कम है, यह कार्यक्रम एमएसएमई क्षेत्र को सशक्त बनाने में तत्परता है.

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CSIR-CFTRI

11th July, 2019

'AcSIR will introduce PhD in industrial research'

MYSURU: Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, Uttar Pradesh, will expand its academic activities to give research in the country a boost, said AcSIR Director Rajender Singh Sangwan.

He addressed the gathering at a ceremony where achievers in MSc (Food Technology) and Flour Milling Technology certificate courses, were awarded. The programme was held at the Central Food Technological and Research Institute (CFTRI), here on Wednesday.

He announced that AcSIR was introducing a PhD course for industrial research and development. "AcSIR has produced over 4,000 PhD scholars since its establishment in 2010. We focus on instruction and providing research opportunities in areas that are not routinely taught in regular universities," he noted.

The institute has study centres in 37 laboratories and six units of the Council of Scien-



Gold medalists of MSc (Food Technology) and Flour Milling Technology certificate courses at Central Food Technological and Research Institute (CFTRI), in Mysuru, on Wednesday. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, Director Rajender Singh Sangwan and CFTRI Director K S M S Raghava Rao are seen.

tific and Industrial Research (CSIR) in 23 cities across India. They act as campuses for different subjects depending on their specialisation.

About AcSIR

The institute was established for granting doctoral and

post-doctoral degrees. AcSIR allows for a centralised institution to manage such research. It aims to advance learning and research in the field of Science and Technology and interfaces with CSIR.

Sangwan said that Food Science was considered among

the most important sectors, as it has an immense scope.

Researchers' role

"After globalisation education is not only in learning but also contributing to the social upliftment of the nation. Similarly, career is not just employ-

ment; it is life itself. India is in a good position to achieve this. It is the responsibility of each student to contribute to the welfare of the country and society," he observed.

CFTRI Director K S M S Raghava Rao said that students must develop original thinking and they be allowed to pursue the education of their choice. They must not be pressurised, he added.

Awards

Achievers of MSc in Food Technology were honoured with awards for their excellence in academics and certificates were issued.

Neha Rawat secured three gold medals — R Rajapopalan gold medal, Nirula's Foundation gold medal and Gowramma Raghunathaiah gold medal. Viswamitra bagged Dr Jiwan S Sidhu gold medal, Varun Arora bagged CFTRI Alumni Association silver medal.

Abhimanyu Singh and Harleen Kaur shared Ranganna Setty award.

DH News Service

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CSIR-CFTRI

11th July, 2019

ಕೈಗಾರಿಕೆಗಳ ಬಗ್ಗೆಯೂ ಪಿಎಚ್.ಡಿ: ಸಂಗ್ರಾನ್

ಪ್ರಜಾವಾಣಿ ವಾರ್ತೆ

ಮೈಸೂರು: 'ದೇಶದ ಪ್ರಗತಿಯಲ್ಲಿ ಕೈಗಾರಿಕೆಗಳ ಪಾತ್ರ ಮಹತ್ವದ್ದಾಗಿದೆ. ನವದೆಹಲಿಯ ಎಸಿಎಸ್‌ಐಆರ್ ಸಂಸ್ಥೆ ವತಿಯಿಂದ ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಕೈಗಾರಿಕೆಗಳ ಬಗ್ಗೆಯೂ ಪಿಎಚ್.ಡಿ ಅಧ್ಯಯನಕ್ಕೆ ಅವಕಾಶ ಮಾಡಿಕೊಡಲಾಗುವುದು' ಎಂದು ಸಂಸ್ಥೆಯ ನಿರ್ದೇಶಕ ಪ್ರೊ.ಆರ್.ಎಸ್. ಸಂಗ್ರಾನ್ ತಿಳಿಸಿದರು.

ಮೈಸೂರು ಸಿಎಸ್‌ಐಆರ್-ಕೇಂದ್ರೀಯ ಆಹಾರ ತಂತ್ರಜ್ಞಾನ ಸಂಶೋಧಾನಾಲಯದ ವತಿಯಿಂದ ಸಂಸ್ಥೆಯ ಚಲುವಾಂಬ ಸಭಾಂಗಣದಲ್ಲಿ ಬುಧವಾರ ನಡೆದ ಎಂಎಸ್‌ಸಿ ಹಾಗೂ ಐಎಸ್‌ಎಂಟಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಪದಕ, ಪ್ರಶಸ್ತಿ ಹಾಗೂ ಪ್ರಮಾಣಪತ್ರ ವಿತರಣಾ ಸಮಾರಂಭದಲ್ಲಿ ಮಾತನಾಡಿದ ಅವರು, 'ಉನ್ನತ ಶಿಕ್ಷಣಕ್ಕಾಗಿಯೇ ಸಂಸ್ಥೆಯನ್ನು ಸ್ಥಾಪಿಸಲಾಗಿದ್ದು, 4000ಕ್ಕೂ ಹೆಚ್ಚು ಮಂದಿ ಸಂಶೋಧಕರು ಪಿಎಚ್.ಡಿ ಅಧ್ಯಯನ ಮಾಡುತ್ತಿದ್ದಾರೆ' ಎಂದು ಹೇಳಿದರು.

'ಆಧುನಿಕ ಓಫ್‌ಶೆಡ್ ತಂತ್ರಜ್ಞಾನ ಕೈಗಾರಿಕಾ ಕ್ಷೇತ್ರವೂ ವಿಸ್ತಾರಗೊಳ್ಳುತ್ತಿದ್ದು,



ಮೈಸೂರು ಸಿಎಸ್‌ಐಆರ್‌ಕೇಂದ್ರೀಯ ಆಹಾರ ತಂತ್ರಜ್ಞಾನ ಸಂಶೋಧಾನಾಲಯದ ವತಿಯಿಂದ ಸಂಸ್ಥೆಯ ಚಲುವಾಂಬ ಸಭಾಂಗಣದಲ್ಲಿ ಬುಧವಾರ ಎಂಎಸ್‌ಸಿ ಹಾಗೂ ಐಎಸ್‌ಎಂಟಿ ಪದವಿಯಲ್ಲಿ ಚಿನ್ನದ ಪದಕ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗಳು, ಪೋಷಕರು

ಕೈಗಾರಿಕೆಗಳ ಬಗ್ಗೆ ಸಂಶೋಧನೆ ಹಾಗೂ ಅಭಿವೃದ್ಧಿಗಾಗಿ ಎಸಿಎಸ್‌ಐಆರ್ ಪಿಎಚ್.ಡಿ ಅಧ್ಯಯನಕ್ಕೆ ಅವಕಾಶ ನೀಡಲಿದೆ. ಇದರಿಂದ ಕೈಗಾರಿಕೆಗಳ ಸ್ಥಿತಿ, ಆಗುಹೋಗಿನ ಬಗ್ಗೆ ತಿಳಿ ಯುವ ಜತೆಯಲ್ಲೇ ಅಭಿವೃದ್ಧಿಗೆ ಕೈಗೊಳ್ಳ ಬೇಕಾದ ಕ್ರಮಗಳನ್ನು ಅರಿಯಲು ಸಹಕಾರಿಯಾಗಲಿದೆ' ಎಂದರು.

'ಆಹಾರ ತಂತ್ರಜ್ಞಾನ ದೇಶದ ಹೆಮ್ಮೆ. ಈ ಕ್ಷೇತ್ರವನ್ನು ಮತ್ತಷ್ಟು ಅಭಿವೃದ್ಧಿಪಡಿಸಲು ಕಾರ್ಯಕ್ರಮ ರೂಪಿಸಬೇಕಿದೆ.

ಹಿಂದೆ ಆಹಾರ ವಿಭಾಗವನ್ನು ಒಂದು ತಂತ್ರಜ್ಞಾನ ಎಂದು ಪರಿಗಣಿಸಿರಲಿಲ್ಲ. ಆದರೆ, ಇಂದು ತಂತ್ರಜ್ಞಾನದ ಭಾಗವಾಗಿದ್ದು, ಹೆಚ್ಚು ಪ್ರಾಮುಖ್ಯತೆ ಪಡೆದುಕೊಂಡಿದೆ' ಎಂದು ಹೇಳಿದರು.

'ಸಮಾಜದ ಬದಲಾವಣೆಯಲ್ಲಿ ಶಿಕ್ಷಣ ಪರಿಣಾಮಕಾರಿ ಪಾತ್ರ ನಿರ್ವಹಿಸಲಿದೆ. ತರಗತಿಗೆ ಸೀಮಿತವಾಗದೇ, ಸಮಾಜ ಮತ್ತು ದೇಶದ ಅಭಿವೃದ್ಧಿಗೆ ಶಿಕ್ಷಣ ಪೂರಕವಾಗಬೇಕು. ಶಿಕ್ಷಣ ಉದ್ಯೋಗ ಮತ್ತು ವೃತ್ತಿಗಷ್ಟೇ

ಸೀಮಿತವಲ್ಲ. ಅದುವೇ ನಮ್ಮ ಜೀವನವಾಗಿರಬೇಕು. ಈಚೆಗೆ ವಿದ್ಯಾರ್ಥಿಗಳು ಹೆಚ್ಚು ಚುರುಕಾಗಿದ್ದು, ತರಗತಿಯಲ್ಲಿರುವ ಪ್ರತಿಯೊಬ್ಬ ವಿದ್ಯಾರ್ಥಿಯನ್ನು ಗಮನಿಸುವ ಸವಾಲು ಶಿಕ್ಷಕರ ಮೇಲಿದೆ' ಎಂದರು.

ಎಂಎಸ್‌ಸಿ ಆಹಾರ ತಂತ್ರಜ್ಞಾನ ವಿಭಾಗದಲ್ಲಿ 25 ವಿದ್ಯಾರ್ಥಿಗಳು, ಐಎಸ್‌ಎಂಟಿ ವಿಭಾಗದಲ್ಲಿ 22 ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಪದವಿ ಪ್ರದಾನ ಮಾಡಲಾಯಿತು. ಈ ಎರಡೂ

ಇಷ್ಟದ ಕಲಿಕೆ ಯಶಸ್ವಿ ಹಾದಿಯಲ್ಲಿ ಕರೆದೊಯ್ಯಲಿದೆ. ಸಿಎಫ್‌ಟಿಆರ್‌ಐಎನ್ ಕೀರ್ತಿ ಇಲ್ಲಿ ಓದಿದ ವಿದ್ಯಾರ್ಥಿಗಳಿಂದಲೇ ಪಸರಿಸಬೇಕು. ಶಿಕ್ಷಣಕ್ಕೆ ಮಿಗಿಲಾದುದು ಇನ್ನೊಂದಿಲ್ಲ. ಡಾ.ಕೆ.ಎಸ್.ಎಂ.ಎಸ್. ರಾಘವರಾವ್, ಸಿಎಸ್‌ಐಆರ್-ಸಿಎಫ್‌ಟಿಆರ್‌ಐಎನ್ ನಿರ್ದೇಶಕ

ಮುಖ್ಯಾಂಶಗಳು

- ಆಹಾರ ತಂತ್ರಜ್ಞಾನ ದೇಶದ ಹೆಮ್ಮೆ
- ಶಿಕ್ಷಣವೇ ಬದುಕಾಗಲಿ
- ಶಿಕ್ಷಣದಿಂದಲೇ ಸಮಾಜದ ಬದಲಾವಣೆ

ವಿಭಾಗದ 8 ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಚಿನ್ನದ ಪದಕ ಪ್ರದಾನ ಮಾಡಲಾಯಿತು. ನೇಹಾ ರಾವತ್ ಮೂರು ಚಿನ್ನದ ಪದಕಗಳನ್ನು ತಮ್ಮ ಕೊಠಡಿಗಳಿಗೆರಿಸಿಕೊಂಡರು.

ಸಿಎಸ್‌ಐಆರ್-ಸಿಎಫ್‌ಟಿಆರ್‌ಐಎನ್ ನಿರ್ದೇಶಕ ಡಾ.ಕೆ.ಎಸ್.ಎಂ.ಎಸ್. ರಾಘವರಾವ್, ಮಾನವ ಸಂಪನ್ಮೂಲಾಭಿವೃದ್ಧಿ ಮುಖ್ಯಸ್ಥ ಡಾ.ಆರ್. ಪಿ.ಸಿಂಗ್, ಡಾ.ಸುರೇಶ್ ಎಸ್.ಸಾಖರೆ ಉಪಸ್ಥಿತರಿದ್ದರು.

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Rajavani

सीएसआईआर सीएमआईआरआई में जिज्ञासा कार्यक्रम



- निदेशक डॉ हरीश हिरानी ने सोलर एनर्जी पर रखी विस्तृत रिपोर्ट
- केंद्रीय विद्यालयों के शिक्षकों, छात्रों ने की भागीदारी, संस्थान भ्रमण भी

दुर्गापुर. सीएसआईआर सीएमआईआरआई ने मंगलवार को जिज्ञासा कार्यक्रम का आयोजन किया। जिसमें केंद्रीय विद्यालय सीएमआईआरआई और केंद्रीय विद्यालय सीआरपीएफ के 130 छात्रों और शिक्षकों ने भाग लिया। अध्यक्षता सीएसआईआर-सीएमआईआरआई के निदेशक (डॉ) हरीश हिरानी ने की। भविष्य में संस्था द्वारा आयोजित किए जाने वाले ऐसे कार्यक्रमों की एक श्रृंखला के भाग के रूप में आयोजित किया गया था। सभी भाग लेने वाले छात्रों को सौर ऊर्जा के विभिन्न पहलुओं के बारे में बताया गया और सीएसआईआर-सीएमआईआरआई सौर पार्क का दौरा किया।

राष्ट्र के युवा दिमागों को तर्कसंगत और वैज्ञानिक स्वभाव के साथ ढालने के महत्व पर जोर दिया। उन्होंने कहा कि प्रौद्योगिकी का वास्तविक परीक्षण तब साकार होता है जब इसे रीयल कॉन्सेप्ट से रियलिटी में लाया जाता है। पृथ्वी को प्राप्त सौर ऊर्जा का केवल दो फीसदी पूरे वैश्विक आबादी को शक्ति प्रदान करने के लिए पर्याप्त है। इसलिए यह नवीन विज्ञान और प्रौद्योगिकी अनुप्रयोगों के माध्यम से इस अमूल्य सौर क्षमता का दोहन करने के लिए विज्ञान और प्रौद्योगिकी के चिकित्सकों पर आसन्न है। 2022 तक 100 गीगावॉट की क्षमता हासिल करने का राष्ट्रीय सौर मिशन तभी साकार हो सकता है जब सभी हितधारक इतने बड़े पैमाने पर उत्साह से भाग लें। उन्होंने ई-कचरा रीसाइक्लिंग और प्रबंधन के विशाल खतरे के बारे में भी अपनी चिंता साझा की। सोलर पीवी प्लांट की पहले से स्थापित बड़ी क्षमता में एक सीमित जीवन काल है और इसलिए इसके परिणामस्वरूप सौर पीवी पैनलों को भी पुनर्नवीनीकरण और प्रबंधित करने की आवश्यकता है। सीएसआईआर-सीएमआईआरआई को ई-वेस्ट प्रबंधन पर ठोस अपशिष्ट

प्रबंधन छाता परियोजना के एक भाग के रूप में भी केंद्रित किया गया है। स्थिरता के अलावा डॉ हिरानी ने झुकाव और पर्यावरणीय धूल कणों के अनुचित कोण के कारण ऊर्जा हानि को कम करने के लिए फोटो वोल्टाइक पैनलों की दक्षता में सुधार के महत्व को भी विस्तार से बताया। संवादात्मक सत्र के दौरान डॉ हिरानी और वैज्ञानिकों की उनकी टीम ने फ्लोटिंग सोलर पैनल्स, सोलर कंसेंट्रेटर फॉर वॉटर फिल्ट्रेशन से लेकर सोलर पावर्ड थर्मल एनर्जी के लिए इंटरनेशनल स्पेस स्टेशनों में सोलर पैनल्स के अनुप्रयोग से लेकर सोलर टेक्नोलॉजी के कई गुना अनुप्रयोगों पर गहन चर्चा की। वैज्ञानिक पार्थसारथी पाल ने सौर और अन्य अक्षय ऊर्जा स्रोतों के विभिन्न पहलुओं पर विस्तृत प्रस्तुति दी। प्रस्तुति के दौरान श्री पाल ने ग्रामीण भारत में विकासात्मक परिदृश्य को बढ़ावा देने और आयात-प्रतिस्थापन को उत्प्रेरित करने के लिए स्वदेशी सोलर कंसेंट्रेटर के विकास और हाइब्रिड रिन्यूएबल एनर्जी स्रोतों के कार्यान्वयन पर जोर दिया। डॉ मलय कर्मकार, प्रधान वैज्ञानिक और डॉ प्रबज्योति बनर्जी, सीनियर प्रिंसिपल साइंटिस्ट भी इंटरैक्टिव सत्र के दौरान उपस्थित थे।

CSIR-CMERI

7th July, 2019

माकूल इंतजाम

पीएमओ के निर्देश पर सीएमईआरआई दुर्गापुर के वैज्ञानिकों ने तैयार किया मॉब कंट्रोल व्हीकल

पत्थरबाजों से निबटने में मदद करेगा विशेष वाहन

जागरण विशेष

हृदयानंद गिरि • दुर्गापुर

कश्मीर में पत्थरबाजों और उपद्रवियों से निबटना सुरक्षाबलों के लिए अब कहीं अधिक आसान होगा। प्रधानमंत्री कार्यालय और केंद्रीय विज्ञान एवं प्रौद्योगिकी मंत्रालय के निर्देश पर दुर्गापुर, झारखंड स्थित केंद्रीय यांत्रिकी अभियांत्रिकी अनुसंधान संस्थान (सीएमईआरआई) के वैज्ञानिकों ने इसका माकूल इंतजाम कर लिया है।

वैज्ञानिक अब ऐसा मॉब कंट्रोल व्हीकल (एमसीवी) बना रहे हैं जो अत्याधुनिक तकनीक से लैस होगा। इसे न भीड़ पलट सकेगी, न इसमें आग लगेगी। पत्थराव से वाहन में बैठे जवान जखमी भी नहीं होंगे। दरअसल, कड़ी कार्रवाई से गुरेज के कारण उपद्रवियों को नियंत्रित करने में जवानों को दिक्कत होती है, पर अब ऐसा नहीं होगा। इन पत्थरबाजों के मंसूबे अब तकनीक के जरिये ध्वस्त

170 डिग्री एरिया में कैमरे रखेंगे नजर, वाहन में मौजूद है भीड़ नियंत्रण के तमाम उपकरण

• जवान अंदर से कर सकेंगे फायरिंग, भीड़ पर पानी फेंकने, आंसू गैस छोड़ने, आग बुझाने की भी व्यवस्था

प्रधानमंत्री कार्यालय की ओर से एमसीवी तैयार करने का निर्देश मिला है। सीएमईआरआई के वैज्ञानिक नौ माह से इस पर काम कर रहे हैं। सितंबर तक इसके तैयार होने की उम्मीद है।

-**प्रो. डॉ. हरीश हिरानी**, निदेशक, सीएमईआरआई, दुर्गापुर, झारखंड



दुर्गापुर स्थित केंद्रीय यांत्रिकी अभियांत्रिकी अनुसंधान संस्थान (सीएमईआरआई) में तैयार किया जा रहा एमसीवी (मॉब कंट्रोल व्हीकल) • नईदुनिया

होंगे। यह वाहन अभेद्य दुर्ग की तरह होगा। वाहन के अंदर से ही कैमरे के माध्यम से उपद्रवियों को देख जवान उन पर कार्रवाई कर सकेंगे। इसे बनाने में करीब नौ माह से वैज्ञानिक जुटे हैं। सितंबर तक यह बनकर तैयार हो जाएगा। एमसीवी तैयार

कर रही वैज्ञानिकों की टीम के एक सदस्य ने बताया कि इसकी रफ्तार 30-40 किमी प्रति घंटे तक होगी। आठ जवान इसमें आराम से बैठ सकेंगे। अगली सीट पर चालक के साथ ऑपरेशन कमांडर बैठेगा।

इस हार्डटेक वाहन में उच्च क्षमता के वाइड एंगल कैमरों का इस्तेमाल हो रहा है। ये 170 डिग्री क्षेत्र तक की जानकारी देंगे। कैमरों से मिले बाहर के दृश्य को अंदर बैठे जवान स्क्रीन पर देख सकेंगे। वीडियो ट्रांसमिशन सिस्टम के माध्यम से

दूर कार्यालय में बैठे अधिकारी भी स्थिति पर पूरी तरह नजर रख बचित दिशा निर्देश दे सकेंगे।

इस वाहन में लगे मल्टी बैरल लांचर के माध्यम से भीड़ पर पानी व अश्रु गैस छोड़ी जा सकेगी। एक बटन दबाते ही पानी और आवश्यकता पड़ने पर आंसू गैस का प्रवाह शुरू हो जाएगा। गैस प्रवाह को किसी भी दिशा में घुमा भी सकेंगे। आग बुझाने के लिए फोम स्प्रे सिस्टम व पानी की व्यवस्था की गई है। एमसीवी के अंदर से ही जवान फायरिंग भी कर सकते हैं। जवानों को उसके लिए बाहर नहीं आना होगा।

एमसीवी को उच्च तकनीक से तैयार इस्पात से बनाया गया है। इस पर बम का असर नहीं होगा। इसमें लोहे की एक दीवार भी आगे लगाई गई है। अगर अग्रे भीड़ वाहन के पास आती है तो यह दीवार भीड़ के सामने आ जाएगी। वाहन को आगे बढ़ाकर दीवार के माध्यम से भीड़ को धकेला जा सकेगा। यह दीवार 12 मीटर ऊंची एवं 24 मीटर चौड़ी है।

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