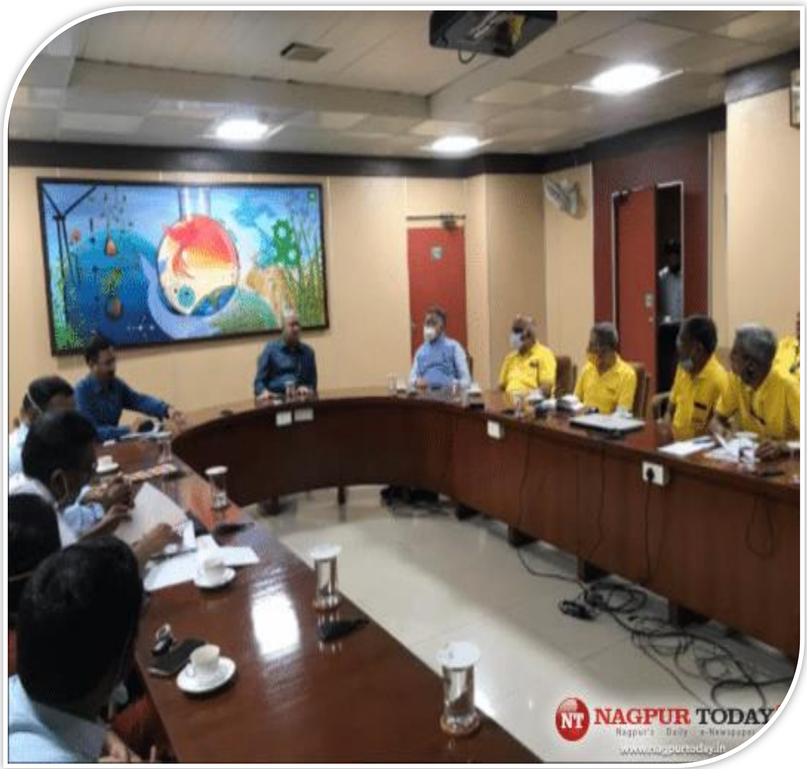
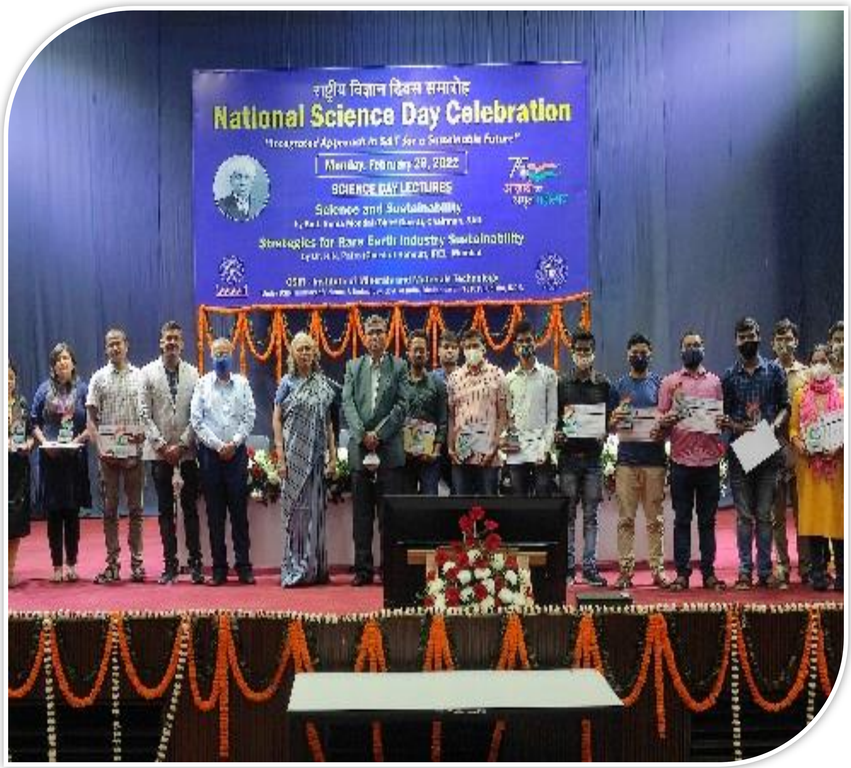
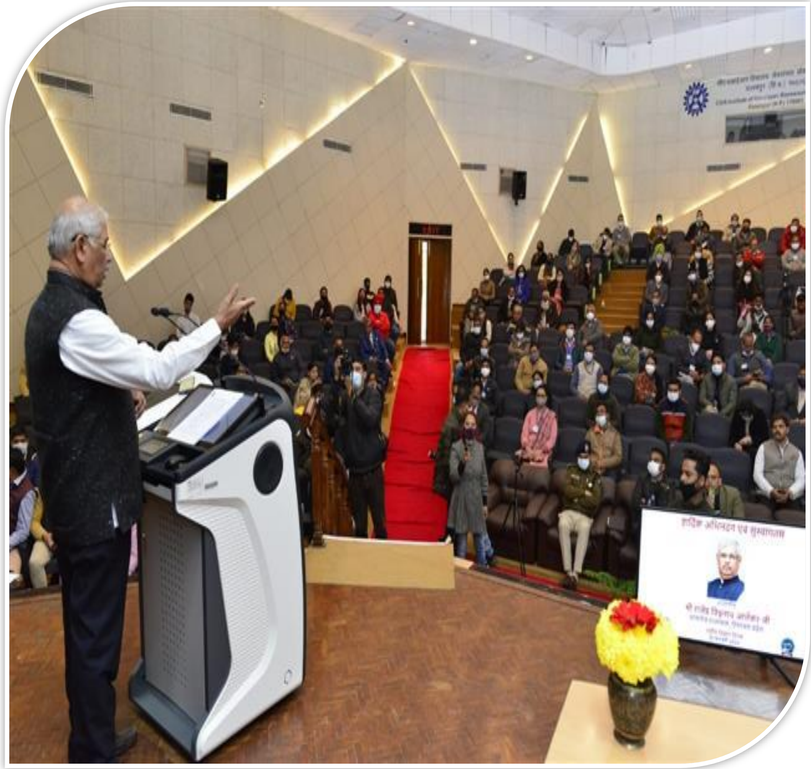
CSIR IN MEDIA

CSIR

NEWS BULLETIN
01 TO 05 MARCH 2022



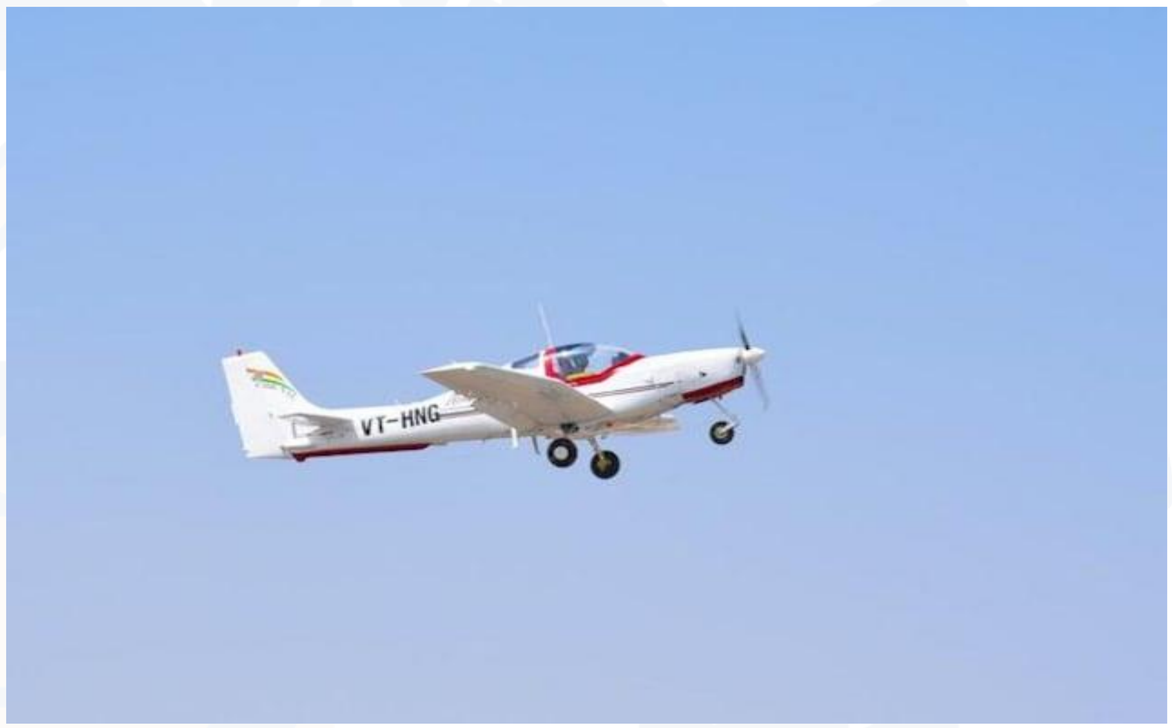




India's first indigenous flying trainer HANSA-NG completes sea-level trials

CSIR-NAL

05th March, 2022



India's first indigenous flying trainer 'HANSA-NG' designed and developed by CSIR-National Aerospace Laboratories, has successfully completed the sea-level trials at Puducherry from February 19 to March 5.

The aircraft was flown to Puducherry covering a distance of 140 nautical miles in 1.5 hours at a cruising speed of 155 km/hr on February 19, NAL said in a release on Saturday.

The objective of these trials were to evaluate handling qualities, climb/cruise performance, balked landing, structural performance including positive and negative G, power plant and other systems performance at sea level, it said.

All the objectives of the sea-level trials were met and the aircraft was ferried back to Bengaluru on March 5, after completing 18 hours flying in Puducherry, it said.

The aircraft was piloted by Wing Commander K V Prakash and Wing Commander Dilip Reddy of Aircraft & Systems Testing Establishment (ASTE), and the flight was monitored by NAL designers and Wg. Cdr. Reeju Chakraborty as Flight Test Director from telemetry.

According to NAL, HANSA-NG is one of the most advanced flying trainers powered by Rotax Digital Control Engine with unique features like Just-In-Time Prepreg (JIPREG) Composite Lightweight Airframe, glass cockpit, bubble canopy with wide panoramic view, electrically operated flaps, etc.

It is designed to meet the Indian flying club needs and it is an ideal aircraft for Commercial Pilot Licensing (CPL) due to its low cost and low fuel consumption, it said, adding that NAL has already received more than 80 LoIs (Letter of Intents) from various flying clubs.

NAL Director Jitendra J Jadhav said a total of 37 flights and 50 hours of flying have been completed and few more flights will be conducted before getting Type Certification by DGCA.

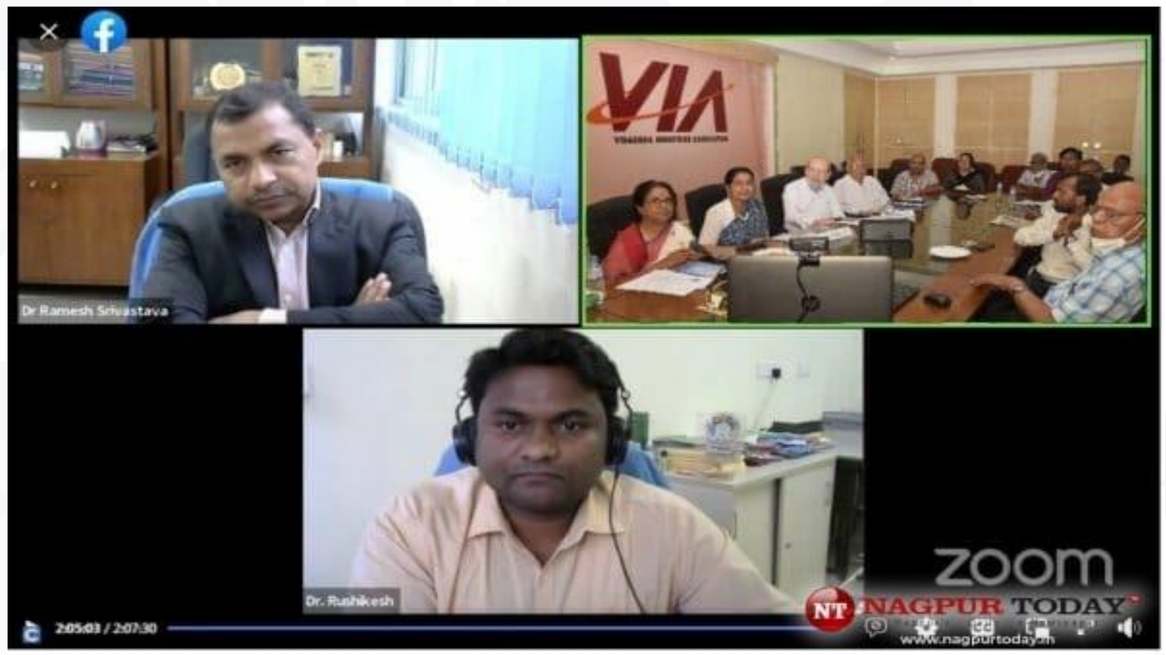
Type Certification is likely to be completed by April and thereafter the manufacturing will be initiated with public/private industry that will enhance the aerospace ecosystem under 'Atmanirbhar Bharat', he said.

Published in:
Business Standard

VIA Agro & Rural Development Forum organised a session on “Business Opportunities in Medicinal & Aromatic Plants & its viability in Vidarbha”

CSIR-CIMAP

04th March, 2022



Agro & Rural Development Forum of Vidarbha Industries Association successfully organised a session on “Business Opportunities in Medicinal & Aromatic Plants & its viability in Vidarbha” on 2nd March, 2022 at VIA Auditorium, Nagpur as well as on virtual platform. A large number of farmers from Maharashtra, Telangana and Madhya Pradesh took the opportunity to gain knowledge regarding the cultivation of aromatic plants suitable for Vidarbha region and also the marketing of their products. Taking into consideration the COVID protocol, a limited number of 30-35 enthusiastic farmers could be accommodated physically.

Dr. R.K. Srivastava, Sr. Scientist & Head Business Development, CSIR-CIMAP, Lucknow addressed the interested farmers on “Business prospects in aroma industry”. He informed the house about the different products prepared and patented technology available at CIMAP. He also told about the role of CIMAP in helping the farmers interested in the Aroma industry about the hand holding procedure and incubation facilities at their institute.

The second speaker on the occasion was Dr Rushikesh Bhise, Scientist (Agriculture Extension) Nodal, Aroma Mission, Maharashtra State, CSIR-CIMAP, Lucknow on “Cultivation & Management Practice of Lemon Grass, Palmarosa & Tulsi.” He gave the detailed description about the cultivation practices, irrigation, harvesting, weeding, management of harvesting and post harvest technology of the different varieties of lemon grass, palmarosa, and Tulsi. He specifically brought to our notice the difference between the Tulsi varieties, and their oil contents.

Dr. Bhise also answered to questions regarding Gerenium cultivation and it's viability in Vidarbha. He said that Gerenium is also a very good choice for farmers of Vidarbha to enter into the aroma industry. Dr. Bhise also gave an introduction about the functioning and mission of Aroma Mission of CIMAP and how the farmers can take benefit of the different government schemes. In conclusion, he specifically guided the group that whenever you want to try a new plant, start with only one or half acre and let the plant learn about the new ecosystem and the soil should also get to know the new plant.

Taking into consideration the enthusiastic question and answer session and interest generated in the audience, it is obvious that the program proved to be very beneficial for farmers, agri-entrepreneurs, start-up / budding entrepreneurs, who wish to do business in Medicinal & Aromatic Plants. All are advised to visit the website of Aroma Mission for further information and guidance.

Earlier, Om Jajodia, Chairman of Agro & Rural Development in his welcome address said the forum regularly organizes various programmes for farmers for better coordination between farm and industrial sector that help both farms & industries to grow hand-in-hand for mutual benefits and growth. R. B. Goenka, Vice President of VIA informed about the Agro & Rural Development Forum in association with with Goenka Farms and Hitayu organising a Medicinal Plants and Ayurvedic Treatment of serious diseases on 6th March, 2022 at 4.00 pm and are invited to join on zoom session meeting ID: 816 1406 8555.

Shachi Mallick, Convener of the Forum coordinated the session and also moderated the Q&A session. Dr Kirty Sirothia, Project Coordinator gave the introduction of the esteemed speakers and also proposed a formal vote of thanks. Prominently present were Atul Pande, IPP – VIA, Gunwant Dafare, Sr. Agronomist, Baliraja Irrigation Services, Katol, Chetan Marvah from Herbs India, Vivek Suryavanshi & Arti Suryavanshi from Thakurwadi Agriculture and Eco tourism.

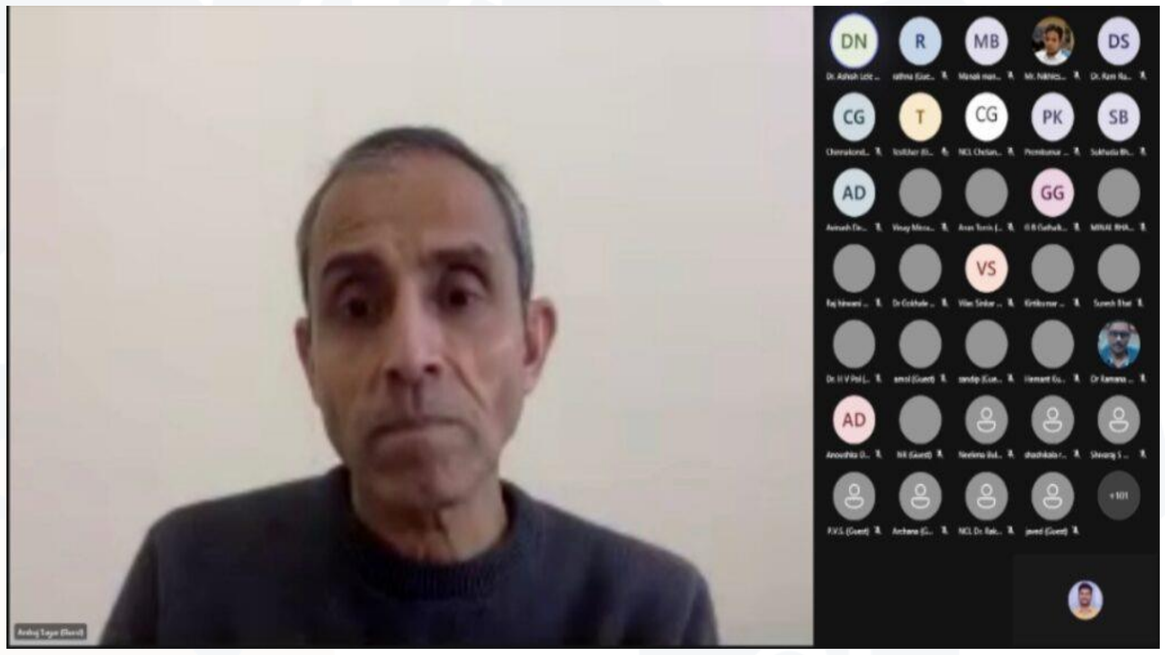
Published in:
Nagpur Today

Pune: CSIR-NCL celebrates National Science Day

CSIR-NCL

03rd March, 2022

Pune, 3rd March 2022: CSIR-National Chemical Laboratory (CSIR-NCL), Pune, celebrated National Science Day on 28 February, 2022 through two events, a lecture for CSIR-NCL staff members, and a lecture for school students.



Prof. Ambuj D. Sagar, Vipula and Mahesh Chaturvedi Professor of Policy Studies & Head, School of Public Policy, Indian Institute of Technology Delhi, virtually delivered the National Science Day lecture on "The clean-energy transition: Challenges and opportunities." Prof. Ambuj Sagar highlighted the current plans of energy transitions in India towards the national goal of reducing the carbon intensity of our economy by 45% over 2005 levels by 2030 and achieving net zero emissions by 2070. Prof Sagar presented data on the Indian emissions and electricity usage per capita, which are among the lowest among countries with comparable GDP. To achieve the national climate action targets while maintain our rate of growth, he emphasized that it cannot be 'business as usual', and we have to identify and deploy suitable technologies that are not only fast, economically sustainable, and scalable, but also in tune with our institutional and human resource capabilities. He observed that while the technologies needed to achieve the 2030 goals are available today, the technologies on whose success the 2070 goals are based are not yet established. As such, substantial research and development efforts in this area is required. Prof Ambuj presented data showing the low level of R&D investment in India, which is about half the global average, and less than a third of the average for developed countries. He pointed out the lack of publicly available detailed data on specific R&D in the energy sector. He discussed in brief various options and sectors in which countries are investing in energy R&D, including hydrogen/fuel cells, solar energy,

nuclear energy and cleaner technologies for existing fuels. He concluded by emphasizing that the enormous challenge to be addressed in a short time presents a great opportunity to build a clean energy industry in India, requiring an innovation ecosystem comprising of higher education and research institutes, private R&D organisations, and knowledge partnerships among them.

In the second event, virtually attended by students from city schools, Dr. Kadhiravan Shanmuganathan, Senior Scientist, CSIR-NCL gave a talk on "Converting Waste to Value: Need of Any Society". Dr. Kadhiravan explained the waste management problems being faced across the globe and the idea of "waste to value". He told the students about the different types of wastes and how they can be effectively and economically processed or reused using scientific and engineering principles. He concluded the talk by explaining the research work on advanced materials and applications done in his lab, including the elastic piezoelectric aerogels made using cellulose nanofibers.

As part of this outreach program, a live demonstration and instructions on how to construct a simple water-conservation system was conducted.

Published in:
Punekar News

To decongest Delhi's Loni roundabout, PWD plans a four lane, 400m underpass

CSIR-CRRI

03rd March, 2022

In order to resolve the issue of frequent snarls on the route from Signature Bridge towards Ghaziabad, the public works department (PWD) has proposed an underpass near the Loni roundabout. The 400m long and four-lane wide underpass is expected to come up at the intersection of Mangal Pandey Road and Loni Road, the PWD said, adding that the project has been sent to the secretariat for administrative approval and budget allocation.

"Once the secretariat green lights the project, tenders will be invited and construction work started," a senior PWD official overseeing the project said, asking not to be named.

Located near the Uttar Pradesh border, the Loni roundabout sees traffic converging from Loni Road and from Wazirabad Road (vehicles moving from Signature Bridge towards Ghaziabad, Loni and Hindon).

Transport experts have attributed the congestion at the roundabout to the intermixing of local and interstate traffic as well as the large-scale movement of heavy trucks to the nearby industrial area.

The underpass, the official quoted above said, will be aligned along Mangal Pandey Road and, once ready, will carry traffic from Signature Bridge towards Ghaziabad, Loni and Hindon. This essentially means that the underpass will separate the interstate traffic away from the busy roundabout.

Initially, the department was planning to develop the underpass along with the proposed flyovers on Mangal Pandey Road, but it was later decided that the PWD will develop these flyovers jointly with the Delhi Metro Rail Corporation (DMRC). And that led to a revision of plans, the official said.

While the underpass and flyovers have received an approval from UTTIPEC (Unified Traffic and Transportation Infrastructure Centre), the expenditure approval from the government is awaited.

The two flyovers will help decongest Mangal Pandey Road , a key link between Delhi and Ghaziabad, and each of them will be about 1.5km long. “The first flyover will start from Bhajanpura traffic signal and end near Yamuna Vihar, covering a distance of 1,300m, while the second flyover will start from Nand Nagri traffic signal and land near Gagan Cinema T-junction, covering a distance of 1, 500m on National Highway (NH)-9 along the Wazirabad Road. The Khajuri Khas intersection already has a flyover. The three projects together will help make Signature Bridge to Bhopura border a signal-free stretch,” the PWD official said.

S Velmurugan, chief scientist, Central Road Research Institute (CRRI), said interventions will be required at the planning stage itself for dealing with congestion nodes around industrial areas that were once on the periphery of the city but are now in the middle of residential neighbourhoods. “Loni area has many small and medium scale industrial units. There has to be a provision of service roads to segregate the traffic (local and interstate),” Velmurugan said.

He added that development of Signature Bridge as a connecting point between north-east Delhi and the rest of the city has increased traffic volume on the route and the three projects (underpass and two flyovers) will provide relief to commuters. “It is laudable that such interventions are being made in north-east Delhi, which has remained backward, in terms of infrastructure, as compared to the rest of the national capital,” Velmurugan said.

Published in:
Hindustan Times

CSIR-NEERI

03rd March, 2022

Doctors to spread awareness on noise pollution

दर महिन्याच्या ३ तारखेला ध्वनिप्रदूषणावर जनजागृती

आज 'नो हॉर्न डे' : डॉक्टरांचा पुढाकार

लोकमत न्यूज नेटवर्क

नागपूर : प्रत्येक महिन्याच्या ३ तारखेला नागपुरात 'नो हॉर्न डे' पाळण्याचा निर्धार घेण्यात आला आहे. राष्ट्रीय पर्यावरण अभियांत्रिकी संशोधन संस्था (नीरी) च्या प्रस्तावाला विविध संघटनांकडून सर्वसंमतीने मंजूर करण्यात आले असून शहरातील डॉक्टर्सनी या मोहिमेच्या जनजागृतीची जबाबदारी घेतली आहे.

नीरीच्या पुढाकाराने व वाहतूक जनजागृतीसाठी कार्यरत जनआक्रोश संघटनेच्या सहकार्याने ध्वनिप्रदूषण रोखण्यासाठी बैठक नीरीच्या सभागृहात घेण्यात आली. यावेळी शहरातील डॉक्टरांचा विशेष सहभाग होता. नीरीचे संचालक डॉ. अतुल वैद्य, दत्ता मेघे आयुर्विज्ञान संस्थेचे कुलगुरू डॉ. राजीव बोरले, आयएमएचे अध्यक्ष डॉ. संजय देवतळे, डॉ. अर्चना कोठारी, डॉ. सतीश नलगुंडवार, डॉ. रणजित अंबादे, कान-नाक-घसा तज्ज्ञ डॉ. समीर ठाकरे, डॉ. प्रशांत निखाडे, डॉ. नंदू कोलवाडकर, जनआक्रोशचे डॉ. अनिल लड्ढा, श्याम भालेराव, रवींद्र कासखेडीकर, अशोक करंदीकर, डॉ. प्रवीण लाड, डॉ. आर.डी. कावळे, अनिल जोशी प्रामुख्याने उपस्थित होते.

अनिल जोशी यांनी जनआक्रोशचे कार्य व ध्वनिप्रदूषण नियंत्रण योजनेसंबंधी माहिती दिली. मानवाच्या शारीरिक, मानसिक व एकंदरीतच आरोग्यावर दुष्परिणाम करणाऱ्या शहरातील वाढत्या ध्वनिप्रदूषणाबद्दल डॉक्टरांनी चिंता व्यक्त केली. रस्त्यावरील गोंगाट, अनावश्यक हॉर्न वाजविण्याच्या प्रतिकूल परिणामांकडे नागरिकांचे लक्ष वेधू, असा विश्वास आयएमए संलग्नित डॉक्टरांनी दिला. वाहतूक पोलिसांच्या ऑडिओमेट्रिक तपासणीच्या गरजेवरही त्यांनी भर दिला. दरमहिन्याच्या ३ तारखेला 'नो हॉर्न डे' पाळा, असे शहरातील नागरिकांना आवाहन करण्यात आले.

Published in:

Lokmat Marathi, Tarun Bharat

CSIR-NEERI

03rd March, 2022

ध्वनि प्रदूषण के खिलाफ डॉक्टर करेंगे जनजागृति

आज 'नो हॉर्न डे', हर महीने की 3 तारीख को मनाया जाएगा

नागपुर। 2 मार्च। लोस सेवा

नागपुर में हर माह की 3 तारीख को 'नो हॉर्न डे' मनाने का फैसला किया गया है. राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान (नीरी) के प्रस्ताव को विभिन्न संगठनों द्वारा सर्वसम्मति से मंजूरी देने के साथ ही शहर के डॉक्टरों ने अभियान के बारे में जनजागृति करने की जिम्मेदारी ली है.

नीरी की पहल और यातायात जनजागृति के क्षेत्र में कार्यरत जनआक्रोश संगठन के सहयोग से ध्वनि प्रदूषण को रोकने के लिए नीरी के सभागृह में बैठक का आयोजन किया गया था. इस अवसर पर विशेष रुप से शहर के डॉक्टरों ने हिस्सा लिया. नीरी के संचालक डॉ. अतुल वैद्य, दत्ता मेघे आयुर्विज्ञान संस्था के कुलगुरु डॉ. राजीव बोरले, आईएमए के अध्यक्ष डॉ. संजय देवतले, डॉ. अर्चना कोठारी, डॉ. सतीश नलगुंडवार, डॉ. रणजीत अंबादे, कान-नाक-गला विशेषज्ञ डॉ. समीर ठाकरे, डॉ. प्रशांत निखाड़े, डॉ. नंदू कोलवाड़कर, जनआक्रोश संगठन के डॉ. अनिल लड्ढा, श्याम भालेराव, रवींद्र कासखेड़ीकर, अशोक करंदीकर, डॉ. प्रवीण लाड, डॉ. आर.डी. कावले, अनिल जोशी प्रमुखता से उपस्थित थे.

अनिल जोशी ने जनआक्रोश संगठन के कार्यों और ध्वनि प्रदूषण नियंत्रण योजना के बारे में जानकारी दी. डॉक्टरों ने शहर में बढ़ रहे ध्वनि प्रदूषण और इससे मनुष्य के शारीरिक, मानसिक स्वास्थ्य पर होने वाले दुष्परिणामों पर चिंता व्यक्त की. आईएमए से संलग्नित डॉक्टरों ने भी सड़कों पर अनावश्यक रुप से हॉर्न बजाने के कारण होने वाले प्रतिकूल प्रभावों की ओर नागरिकों का ध्यानाकर्षण कराने का विश्वास जताया. साथ ही यातायात पुलिस द्वारा ऑडियोमीट्रिक जांच की आवश्यकता पर भी बल दिया. इस दौरान शहर के नागरिकों से हर महीने की तीन तारीख को 'नो हॉर्न डे' का पालन करने का आह्वान किया गया.

Published in:
Lokmat Samachar

CSIR-NEERI

03rd March, 2022

'No honking' on 3rd of every month to reduce noise pollution

■ Staff Reporter

A MEETING was held at CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) to discuss measures to reduce noise pollution, city doctors have taken up the task of spreading awareness about the ill effects of honking. It was decided in the meeting that 'no honking' will be observed on 3rd of every month.

The meeting was held under the chairmanship of Dr Atul Vaidya, Director, CSIR-NEERI. Dr Rajiv Borle, Vice-Chancellor, Datta Meghe Institute of Medical Sciences, representatives of Indian Medical Association (IMA) and ENT specialists also were present.

Dr Prashant Nikhade, President of Vidarbha Chapter of ENT Association, who has vowed to stop honking was specially present.

Dr Samir Thakare, Secretary of the association and Dr Nandu Kolwadkar, President (Elect) of National ENT Association also were present.

Dr Atul Vaidya, Dr Prashant Nikhade, Dr Samir Thakare and members of Janaakrosh during the meeting.

Dr Sanjay Deotale, Dr Archana Kothari, Dr Satish Nalgundwar and Dr Ranjit Ambad attended the meeting on behalf of IMA.

The meeting with doctors was organised as a campaign against noise pollution initiated by Janaakrosh. Dr Anil Laddhad, President, Janaakrosh; Shyam Bhalerao, Vice-President; Ravindra Kaskhedikar, Secretary, Janaakrosh and other members of Janaakrosh including Ashok Karandikar, Dr Pravin Lad, Dr R D Kawale, Anil Joshi also were present in the meeting.

At the onset, Karandikar gave an overview of the functioning of Janaakrosh and plans to control noise pollution in Nagpur.

The doctors expressed concern over increasing level of noise pollution in the city which is responsible for a range of health effects including physical and psychological harm to humans. The IMA representatives and ENT specialists said that they would keep drawing attention of residents towards adverse effects of noise and unnecessary honking on roads. IMA decided that all Medical Institutions in city will observe 'no honking' on 3rd day of every month, and spread awareness about ill effects of noise pollution. The doctors emphasised on the need to conduct audiometric test of traffic police personnel in the city.

IMA and ENT specialists unanimously decided to regularly conduct various seminars and events so that the people should know about the common health hazards of noise pollution and safe limits of sound.

Next month, Chartered Accountants will be involved in this venture to control noise pollution in the city.

Earlier, Dr Ritesh Vijay, Sr. Principal Scientist and Head, Waste Water Technology Division, CSIR-NEERI, highlighted findings of the noise mapping study done in 27 cities across Maharashtra, including Nagpur.

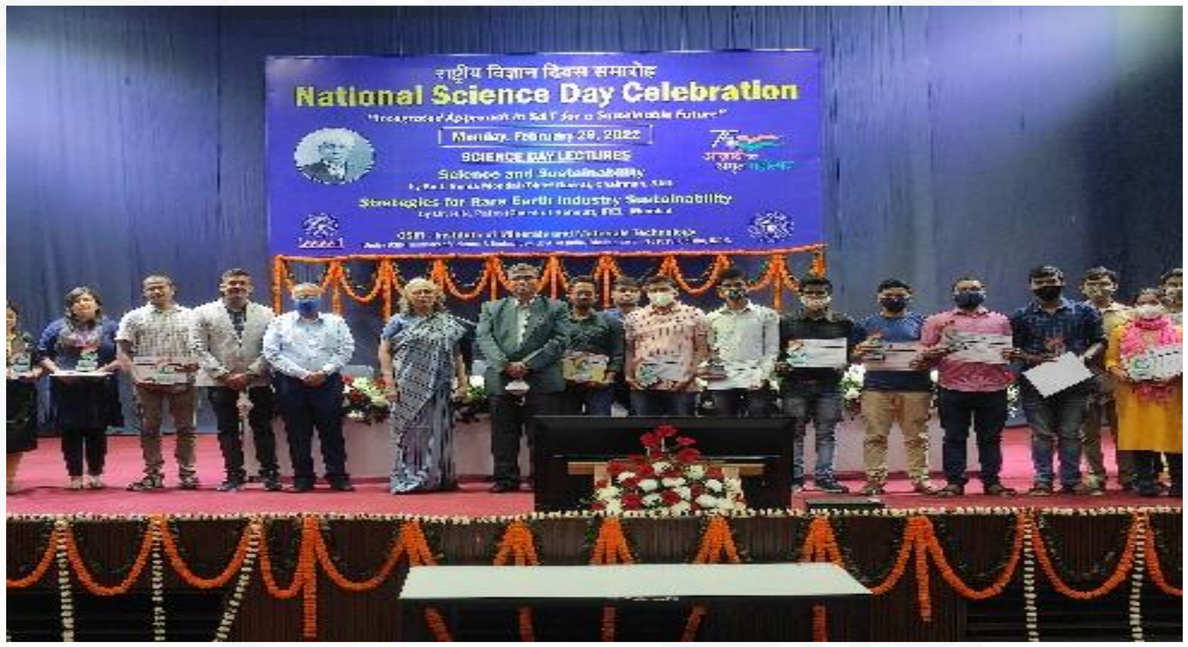
Dr Vijay suggested some remedial measures to reduce noise pollution in Nagpur.

Published in:
Hitavada

National Science Day celebrated at CSIR-IMMT Bhubaneswar

CSIR-IMMT

02nd March, 2022



Bhubaneswar : Like every year, National Science Day was celebrated today in the auditorium of CSIR-IMMT Bhubaneswar. Delivering the introductory speech Prof. Suddhasatwa Basu, Director, CSIR IMMT Bhubaneswar, said, National Science Day is being celebrated to commemorate the discovery of "Raman Effect" by Sir C. V. Raman on 28th February 1928. For this discovery, he was awarded the Noble prize in Physics in 1930.

The theme of this year's National Science Day Celebration is "Integrated Approach in S&T for Sustainable Future". The celebration was inaugurated by Chief Guest Smt. Soma Mondal, Chairman, SAIL and, Guest of Honour, Dr. R. N. Patra, Former CMD, Indian Rare Earths Limited (IREL), Mumbai

Delivering her speech on Science and Sustainability Chief Guest Smt. Soma Mondal, Chairman, SAIL emphasised on strategical improvement on health, economic growth, preservation of nature, sustainable natural climate change.

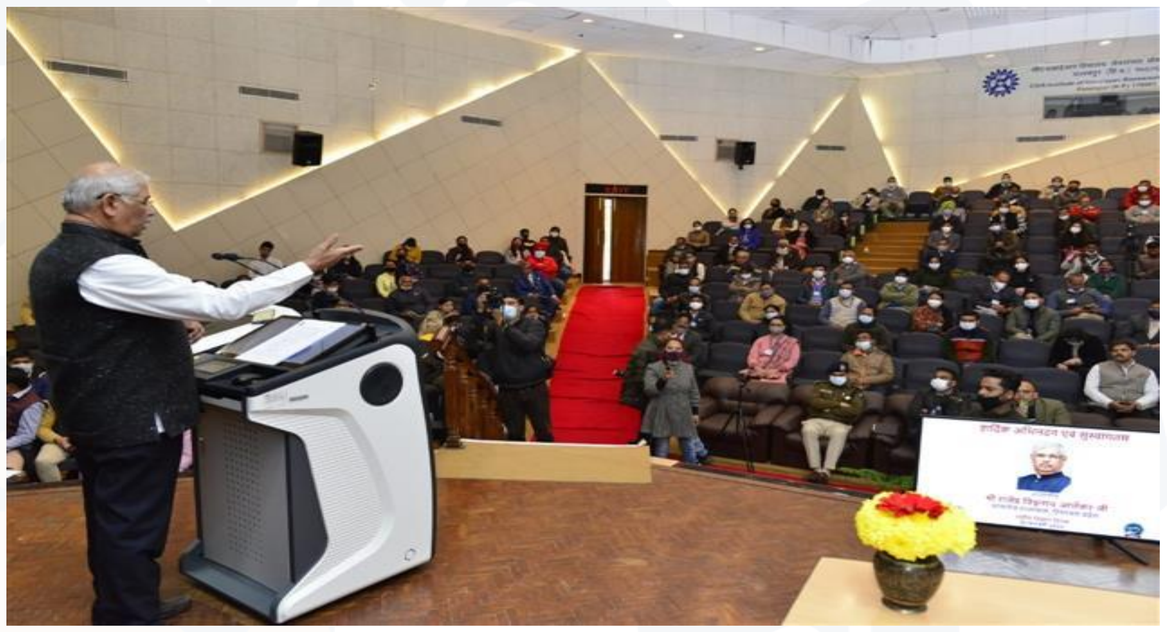
Guest of Honour, Dr. R. N. Patra, Former CMD, Indian Rare Earths Limited (IREL), Mumbai spoke on Strategies for Rare Earth Industry Sustainability Prizes were distributed for Jigyasa Video Competition followed by Vote of Thanks by Dr M K Dalai, Sr Scientist, CSIR-IMMT

Published in:
Orissadiary

Use science in the interest of society: Himachal Governor to researchers

CSIR-IHBT

02nd March, 2022



Governor Rajendra Vishwanath Arlekar said here yesterday that the real use of science should be in the interest of society. The Governor was speaking at a programme organised to mark National Science Day at CSIR- Institute of Himalayan Bioresource Technology (IHBT). Arlekar said the world had recognised the prowess of eminent scientist CV Raman on this day and the country was proud of the "Raman Effect" given by him. Many scientific discoveries of today matched the ideas of our ancestors, he said.

The theme for this year's National Science Day was 'Integrated Approach in Science and Technology for a Sustainable Future' and he felt satisfied that the CSIR-IHBT was engaged in this area by developing and disseminating technologies which were relevant to the people of Himachal and other hilly states as well as the country. The society should benefit from scientific discoveries and that should be the goal of every researcher, the Governor added.

Earlier, Sanjay Kumar, Director, CSIR-IHBT, welcomed the Governor and said the institute would continue to work in the interest of the nation. The scientists here were developing technologies to boost bio-economy through sustainable utilisation of Himalayan bio-resources for societal, industrial and environmental benefits. The institute had five major technological platforms, comprising of agrotechnology, biotechnology, chemical technology, dietetics and nutrition technology and environmental technology, to realise its mandate, he added. Later, the Governor also interacted with incubatees, start-up owners and entrepreneurs using the technology of CSIR-IHBT, Palampur, and lauded their efforts.

Arlekar also laid the foundation stone of a new laboratory block at the institute. He planted saplings of yellow bell plant on the campus and inaugurated a Tulip Garden. The Governor distributed seeds, medicinal plants and improved varieties of plants to farmers on the occasion.

He also virtually dedicated six new oil distillation units installed in Mandi, Kangra and Chamba. The Governor interacted with farmers of these areas through video-conferencing and released Cedar Hydrolysate start-up.

Two MoUs were signed for technology transfer in the presence of the Governor. He also released publications of the institution.

Published in:
Tribune India

Maha samples go to overloaded Delhi lab, state misses sequencing target

CSIR-IGIB, NEERI

02nd March, 2022

Nagpur: All the seven state labs missed the genome sequencing target of 8,000 samples after Covid positive samples were diverted to Delhi's Institute Of Genomics And Integrative Biology (IGIB), despite the latter conveying its inability to take any more samples. It is ironic that despite Maharashtra having the ability to sequence more samples, they were diverted to the Delhi lab. As per Indian SarsCov2 Genomics Surveillance Consortium (INSACOG) request sheet, CSIR-IGIB had shown 'nil' under the inflow of samples column in February. Officials said still IGIB had been overloaded with samples from across the country, leading to samples remaining unprocessed.

The state public health department had set the target for February to keep a tab on emerging variants of SarsCov2. In the same order, it had instructed all Vidarbha government labs and medical colleges to send their samples to city-based CSIR-NEERI.

When asked about missing the target, Krishna Khairnar, head of CSIR-NEERI's environmental virology cell, said the inflow of samples had been low due to which they couldn't process more samples from the region. "Our genome sequencing capability is to process 1,200 samples a month. As the sample inflow was less, CSIR-NEERI was given additional responsibility to take care of samples from Tamil Nadu. The Tamil Nadu samples are processed in addition to Vidarbha," he said. If the inflow of Vidarbha samples improves and samples are sent to NEERI alone, we can focus only on Vidarbha more exclusively, he added.

Some labs said they were asked by state surveillance officials to send the samples to Delhi's IGIB to honour an old MoU between DMER and IGIB. Dr Rajesh Karyakarte, state coordinator for genome sequencing, blamed the reduction on genome sequencing numbers on declining positivity rate. "The positivity has fallen so we do not have enough purposive

samples. The CT (cycle threshold) value is high in available samples, which are not fit for the study. It is a good sign that the wave is waning but we are continuously monitoring the virus," he said.

Dr Karyakarte added that the government of Maharashtra has done 40% of the country's genome sequencing study. "We started in May 2020 under INSACOG initiatives. We were able to report AY.1 (deltaplus) from Ratnagiri because of this continuous study. The reports are utilized for policy making by the government," he said.

Dr Karyakarte said the new projects are over and above the MoU signed between DMER and IGIB. As per the MoU, at least 11,000 samples were to be studied in three months from across 36 districts of the state. Dr Karyakarte said the MoU was extended.

Officials from the state claimed that since May 2020 the state has performed sequencing on 25,000 samples from 36 districts. The state's sequencing labs include BJ Medical College, NIV, NCSS, NCL, IISER (all from Pune), CSIR-NEERI (Nagpur) and Mumbai's Kasturba Hospital. All these are attached to INSACOG.

Published in:
Times Of India

CSIR-CSMCRI

02nd March, 2022

Celebration of Jigyasa outreach program under the Umbrella of Azadi ka Amrit Mohatsav

લોકોની દૈનિક પ્રવૃત્તિઓ અને રાષ્ટ્રીય વિકાસમાં હવામાન આગાહી ચાવીરૂપ

હવામાનની ભૌગોલિક સીમા નથી, તેથી આગાહી માટે વૈશ્વિક સહકાર જરૂરી છે

એજ્યુકેશન રિપોર્ટર | ભાવનગર | 1 માર્ચ

વૈજ્ઞાનિક અને ઔદ્યોગિક અનુસંધાન પરિષદ- કેન્દ્રીય નમક અને સમુદ્રી રસાયણ અનુસંધાન સંસ્થાન (CSIR-CSMCRI), ભાવનગર દ્વારા સીએસઆઈઆર - જિજ્ઞાસાના અંતર્ગત આઝાદીના અમૃત મહોત્સવ અને રાષ્ટ્રીય વિજ્ઞાન દિવસ નિમિત્તે ડૉ. લક્ષ્મણ સિંહ રાઠૌડ (ભૂતપૂર્વ ડિરેક્ટર જનરલ, ભારત હવામાન વિભાગ) દ્વારા 'હવામાનની આગાહી અને અનુપ્રયોગ ' પર પ્રવચન યોજાઇ ગયું .કાર્યક્રમના મુખ્ય વક્તા અને ભારત હવામાન વિભાગના ભૂતપૂર્વ ડાયરેક્ટર જનરલ ડો.લક્ષ્મણસિંહ રાઠૌડે વિદ્યાર્થીઓને જણાવ્યું હતું કે હવામાન એ વાતાવરણીય ઘટના છે, જે તમામ લોકો તેમજ ચરાચરને અસર કરે છે, તેથી હવામાનને સમજવું અને તેની આગાહી કરવી ખૂબ જ જરૂરી છે, જે કુતૂહલનો વિષય છે. તેમણે જણાવ્યું કે હવામાનની માહિતીનો ઉપયોગ વિવિધ દૈનિક પ્રવૃત્તિઓ અને રાષ્ટ્રીય વિકાસમાં થાય છે. હવામાનની કોઈ ભૌગોલિક સીમાઓ હોતી નથી, તેથી આગાહી માટે વૈશ્વિક સહકારની જરૂર હોય છે, જેના માટે વિશ્વ હવામાન સંસ્થા (યુનાઈટેડ નેશન્સનું એક એકમ છે) વૈશ્વિક હવામાન સમુદાયથી બનેલું છે, જે વિશ્વના હવામાનશાસ્ત્રના નિયમનકાર (નિયમો, કાયદાઓ અને કાનૂન) છે.

આ કાર્યક્રમનું ઉદ્ઘાટન ડો. ડુંગર રામ ચૌધરી(પ્રધાન વૈજ્ઞાનિક અને સીએસઆઈઆર- જિજ્ઞાસા યોજના અન્વેષક)એ તમામ કેન્દ્રીય વિદ્યાલયો, જવાહર નવોદય વિદ્યાલય, ATL વિદ્યાલયોના આચાર્યો, શિક્ષકો અને વિદ્યાર્થીઓને આવકાર્યા અને CSIR- જિજ્ઞાસા કાર્યક્રમ ઉદ્દેશ્યો અને રાષ્ટ્રીય વિજ્ઞાનના મહત્વ અને પૃષ્ઠભૂમિ વિશે વિગતવાર વર્ણન કર્યું.

Published in:

Saurastra Samachar

CSIR-NEERI

02nd March, 2022

CSIR-NEERI में राष्ट्रीय विज्ञान दिवस

विज्ञान, तंत्रज्ञान और नीति से राष्ट्र का विकास संभव : वैद्य

■ नागपुर, व्यापार प्रतिनिधि. वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद-नीरी में विज्ञान दिवस पर चर्चा सत्र का आयोजन किया गया जिसका विषय था 'इंटीग्रेटेड एपरोच फॉर सस्टेनेबल इनवायरमेंट.' विप्रो के ग्लोबल हेड पीएस नारायण, आईआईएम बेंगलुरु के श्रीनिवासन रामास्वामी और टेरी स्कूल ऑफ एडवांस स्टडीज के डॉ. स्वरूप दत्ता ऑनलाइन अतिथि के रूप में जुड़े. नीरी के निदेशक डॉ. अतुल वैद्य ने प्रास्ताविक किया. उन्होंने कहा कि विज्ञान, तंत्रज्ञान और नीति से राष्ट्र का विकास संभव है

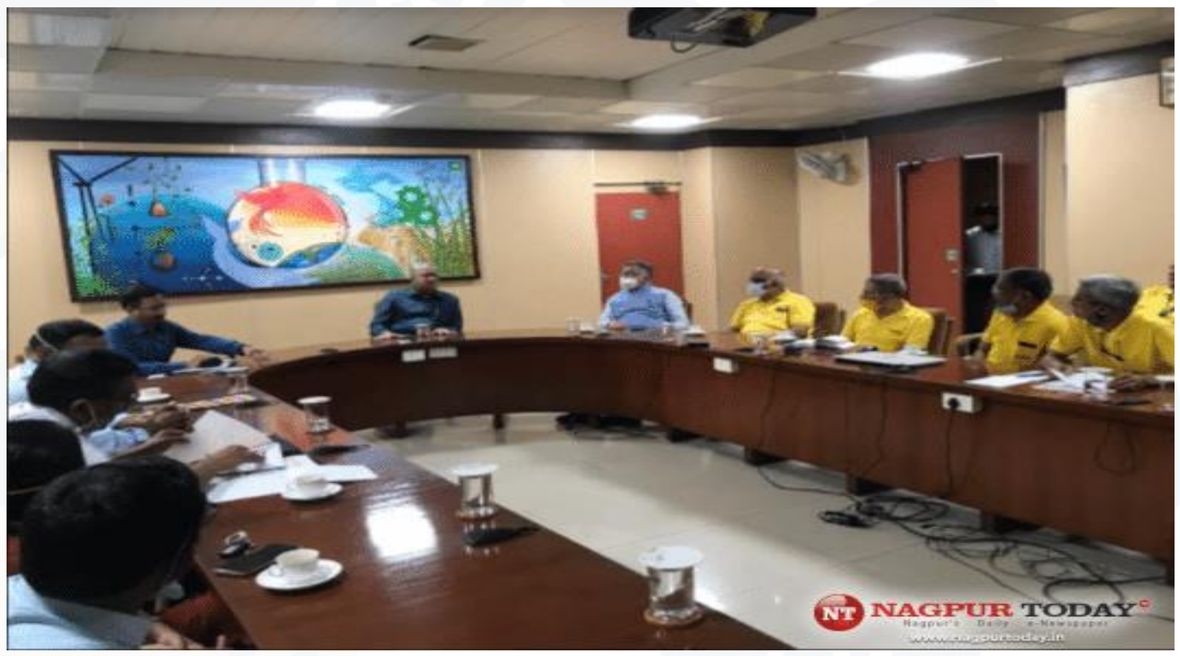
और इसी को उद्देश्य बनाकर काम करना चाहिए. तंत्रज्ञान का उपयोग समाज की भलाई के लिए होना चाहिए. मौसम में परिवर्तन के मूल कारणों पर प्रकाश डालते हुए नारायण ने कहा कि इसका प्रभाव जीवन के सामाजिक, आर्थिक और पर्यावरण पर पड़ेगा.यह एक बहुमुखी चुनौती है जिसका सबको मिलकर मुकाबला हर स्तर पर करना होगा. इसके लिए उन्होंने उपाय भी सुझाए. रामास्वामी ने इंडस्ट्रियल वेस्ट से होने वाले खतरे और उससे कैसे निपट सकते हैं पर प्रकाश डाला. चर्चा सत्र में नवोदय विद्यलय, केंद्रीय विद्यालय और अन्य विद्यालयों के छात्रों, महाराष्ट्र स्वास्थ्य विभाग के कर्मचारियों ने हिस्सा लिया.

Published in:
Navbharat

Doctors to spread awareness on noise pollution

CSIR-NEERI

01st March, 2022



Nagpur: In a meeting held at CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) on 1 March 2022, city doctors have taken up the task of spreading awareness about the ill effects of honking. This meeting was held under the chairmanship of Dr. Atul Vaidya, Director, CSIR-NEERI. Dr. Rajiv Borle, Vice-Chancellor, Datta Meghe Institute of Medical Sciences, representatives of Indian Medical Association (IMA) and ENT specialists were also present on this occasion.

Dr.Sanjay Deotale, Dr. Archana Kothari, Dr. Satish Nalgundwarand Dr. Ranjit Ambad attended the meeting on behalf of Indian Medical Association. AOI Vidarbha Association of ENT specialists was represented by Dr. Samir Thakare, Dr. PrashantNikhade and Dr. Nandu Kolwadkar. This meeting with doctors was organized as a campaign against noise pollution initiated by JanAkrosh. Dr. Anil Laddhad, President, JanAkrosh, Shri ShyamBhalerao, Vice-President, JanAkrosh, Shri RavindraKaskhedikar, Secretary, JanAkrosh and other members of JanAkrosh including Shri Ashok Karandikar, Dr. Pravin Lad, Dr. R D Kawale, Shri Anil Joshi were also present on this occasion.

In the beginning, Shri Karandikar gave an overview of the functioning of 'JanAkrosh' and plans to control noise pollution in Nagpur. The doctors expressed concern over increasing level of noise pollution in the city which is responsible for a range of health effects including physical and psychological harm to humans. The IMA representatives and ENT specialists said that they would keep drawing the attention of residents towards adverse effects of noise

and unnecessary honking on roads. IMA decided that all Medical Institutions in the city will observe 'no honking' on 3rd day of every month and spread the information about ill effects of noise pollution. The doctors emphasized on the need to conduct audiometric test of traffic police personnel in the city. IMA and ENT Specialists unanimously decided to regularly conduct various seminars and events so that the people should know about the common health hazards of noise pollution and safe limits of sound. Next month, Chartered Accountants will be involved in this venture to control noise pollution in the city.

Earlier, Dr. Ritesh Vijay, Sr. Principal Scientist & Head, Waste Water Technology Division, CSIR-NEERI highlighted findings of the noise mapping study done in 27 cities across Maharashtra, including Nagpur. Dr. Vijay suggested some remedial measures to reduce noise pollution levels in Nagpur.

Published in:
Nagpur Today

Webinar On Recent Trends And Emerging Technologies In Plant Sciences

CSIR-CIMAP

01st March, 2022

Aligarh : Impressive progress in the understanding of plant science from the basic researches to latest developments in plant biology was highlighted in the webinar on 'Recent Trends and Emerging Technologies in Plant Sciences' of the Department of Botany, Aligarh Muslim University (AMU).

Explaining the growing importance of herbal drugs, Prof N K Dubey (Head, Department of Botany, Institute of Science, Banaras Hindu University) pointed out that medicinal plants are considered as rich resources of ingredients which can be used in drug development.

He explained the use of herbal drugs for treatments of the different parts of the body.

"Since plants synthesise hundreds of chemical compounds for functions including defence against insects, fungi, diseases, and herbivorous mammals, the new research and the latest developments in the field have become of utmost importance", said Prof Dubey.

Speaking on 'Genetic Improvement of Medical and Aromatic Plants through Biotechnological Approaches' in his guest lecture, Dr Laiq-ur Rahman (Senior Principal Scientist, Department of Plant Biotechnology, CSIR-CIMAP Research Centre, Lucknow) emphasised the importance of the conservation of medicinal plants by utilising alternative techniques like the plant tissue culture.

He discussed secondary metabolite production through callus and suspension culture, genetic transformation, somatic hybridization and hairy root culture in selected medicinal plants. In the talk on 'Carbon Storage and Sequestration Potential in Above Ground Biomass of a Tree Ecosystem', Dr Shakeel A Khan spoke about the percentage of carbon stored by forests and carbon sequestration in trees.

Presiding over the programme, Prof Wasim Ahmad (Dean, Faculty of Life Sciences) highlighted the achievement of the Department of Botany faculty members and their contributions to cutting edge research. He also gave a brief introduction of the Faculty of Life Science to the guest speakers.

Prof Ghazala Parveen (Organising Secretary of the programme and Chairperson, Department of Botany) delivered the welcome address and spoke on advanced researches in plant sciences.

Prof Hisamuddin conducted the webinar and Prof Shamsul Hayat extended the vote of thanks. Over 600 faculty members, advanced students and research scholars from across the country participated in the programme.

Published in:
India Education Diary

National Science Day celebrated

CSIR-NEIST 01st March, 2022

ITANAGAR, 28 Feb: Dera Natung Government College (DNGC), in collaboration with the Arunachal Pradesh State Council for Science & Technology (APSCS&T), celebrated the National Science Day on 28 February.

Addressing the event, themed 'Integrated approach in science and technology for sustainable future', DNGC Principal Dr MQ Khan highlighted the importance of science and technology, and spoke on the "contributions of various fields of science in making a country powerful."

He stressed that "the contributions should be used only for the welfare of mankind in particular and saving our mother nature at large."

DNGC Physics Assistant Professor Dr Hage Doley highlighted the importance of the day and presented a brief on the Raman Effect.

Naharlagun-based CSIR-NEIST's principal scientist Dr Chandan Tamuly said that "the students from Arunachal Pradesh should start thinking about science right from our locality. Young researchers from Arunachal Pradesh should focus on what can be done to uplift our native state through science and technology."

APSCS&T Director CD Mungyak spoke about the programmes conducted as part of the Azadi Ka Amrit Mahotsav. NERIST Physics Assistant Professor Dr Akbari Jahan and NESAC (Meghalaya) Scientist-E Dr Arup Borgohain also spoke.

The programme was attended by HoDs and faculty members from various departments and students from different streams. In East Siang district, the zoology department of Jawaharlal Nehru College (JNC) in Pasighat celebrated the National Science Day.

Zoology Department Head Dr Kento Kadu highlighted the importance of celebrating the day, while Associate Professor Dr KK Bhattacharjee delivered a talk on the topic 'Integrated approach in science and technology for sustainable future'.

Dr KK Jha and Koj Taro also spoke. Assistant Professors Dr Leki Wangchu and Obinam Tayeng moderated the programme, which was organized under the guidance of JNC Principal Dr Tasi Taloh.

Published in:
Arunachal Times

Recyclib inks MoU with NML for e-waste recycling tech transfer

CSIR-NML

01st March, 2022

Jamshedpur, Feb 28: Recyclib Private Limited, New Delhi signed an MoU with CSIR-NML for recycling technology of electronic waste. The MoU will facilitate technology transfer of recycling of lithium ion batteries (LIBs) to recover metal or salts of Li, Co, Mn, Ni, Cu, Al, graphite and saleable plastics.

Technological know-how is a closed-loop design to recover Li, Co, Mn, Ni, Cu, Al, plastics and graphite from black cathodic material of spent LIBs. Developed hydrometallurgical process flow-sheet to recover Li, Co, Mn, Cu, Ni as metals/salts and graphite from spent LIBs will be fine tuned by the samples supplied by the PARTY. The party will commercialize the technology as per the transferred Know-How of CSIR-NML.

It is well known in past, CSIR-NML has transferred a number of technologies to a national and international industries and research organisations. M/s RecyclibPvt. Ltd., Delhi will process the LIBs and extract the non-ferrous metals viz.Li, Co, Mn, Cu, Al, Ni, etc. and a part of that they will recycle all the materials present in it based on zero waste concepts.

On this auspicious occasion, Dr. Indranil Chattoraj, Director CSIR-NML, Dr. Manis Kumar Jha, Project Leader, e-waste recycling activities, Dr. Sanjay Kumar, Head MER, and a group of researchers Dr. Pankaj Kumar Choubey, Dr. Rekha Panda, Mr. Om Shankar Dinkar, Ms. Rukshana Parween and from the RPBD side, Dr. S. K. Pal, Head, RPBD and Dr. Beena Kumari were altogether present. Dr. P.N. Mishra actively participated to bridge the NML with the media for advertisement and dissemination of e-waste recycling technology in the society.

Mohit Garg, Director, M/S Recyclib Pvt. Ltd. Company, Delhi has entered into a technology transfer MoU with CSIR-NML, Jamshedpur considering the importance of LIBs recycling in the present scenario. The recovered metals will fulfill the demand-supply gap of Li, Co, Mn,

Ni, Cu, etc. Statement of Mohit Garg, “I’m very happy to be a part of CSIR-NML by taking the LIBs recycling technology to serve the nation by making pollution free society as well as conserve the natural resources for generations to come”.

The NML director said, “In the recent past, NML has transferred a number of indigenous technology to Indian companies and hope in future we can transfer more to make India an e-waste free society”.

On this occasion, Dr. Sanjay Kumar, Head MER division expressed his happiness and said, “NML will transfer more technologies in near future”.

Published in:
Avenue Mail

CSIR-NGRI

01st March, 2022

CSIR-NGRI celebrates National Science Day - 2022

ఘనంగా నేషనల్ సైన్స్ డే

ఉప్పల్, ఫిబ్రవరి 28 : ఉప్పల్‌లోని ఎన్‌జీఆర్ఐ, సర్వే ఆఫ్ ఇండియా సంస్థల్లో సోమవారం జాతీయ సైన్స్ దినోత్సవం నిర్వహించారు. ఈ మేరకు ఎన్‌జీఆర్ఐలో 'సైన్స్ అండ్ సైంటిస్ట్స్ ఇన్ ద న్యూ మిలీనియం, ఏ బ్రేవ్ న్యూ వరల్డ్' అనే అంశంపై ఉపన్యాసం నిర్వహించారు. ముఖ్యఅతిథిగా ఐఐటీ ప్రొఫెసర్ అశుతోష్ శర్మ హాజరై ప్రసంగించారు. ఈ కార్యక్రమంలో ఎన్‌జీఆర్ఐ డైరెక్టర్ డా.వీఎం తివారీ పాల్గొన్నారు. అదేవిధంగా ఉప్పల్‌లోని సర్వే ఆఫ్ ఇండియాలో జాతీయ సైన్స్ డే వేడుకలు నిర్వహించారు.

Published in:

Namsthe Telangana, Eenadu

CSIR-NEERI

01st March, 2022

India needs to limit carbon emissions: Dr Atul Vaidya

- Dr Vaidya was speaking at the webinar on 'Integrated Approach for Sustainable Environment' organised by CSIR-National Environmental Engineering Research Institute (NEERI)

■ Staff Reporter

CSIR-National Environmental Engineering Research Institute (NEERI) organised a webinar on 'Integrated Approach for Sustainable Environment' on Monday as part of National Science Day celebration.

P S Narayan, Global Head (Sustainability and Social Initiatives), Wipro Limited; Dr Sreenivasan Ramaswami, Assistant Professor, Centre for Sustainable Technologies, Indian Institute of Science (IISc), Bangalore; and Dr Swarup Dutta, Assistant Professor, Department of Policy and Management Studies, TERI School of Advanced Studies, New Delhi, joined this webinar as guest speakers. Dr Atul Vaidya, Director, CSIR-NEERI, delivered the welcome address.

Narayan said that climate change was a multi-dimensional challenge that affected every aspect of life with respect to economic, social and environmental conditions. It requires good scientific understanding and coordinated action at national and global level, he added. "We need to control global average temperature, which is projected to reach or exceed 1.5 degrees Celsius of warming over next 20 years under all scenarios," he cautioned.

Dr Atul Vaidya addressing the gathering.

Recalling India's commitment at Glasgow Climate Summit, Narayan said that India needed to take several effective steps to limit carbon emissions by using technologies such as grid-scale battery, electric vehicles, sustainable aviation fuel, etc. Land use policy is key to reining in global warming. The green technology revolution, at the heart of which sits lithium, holds massive promise for world's miners, but to reap the rewards the entire metals supply chain will have to 'green' itself, he stressed.

Dr Ramaswami said that 'Fixed-bed Biofilm Reactor' was a robust, reliable and compact technology for nitrification of waste waters. Microbes are used in this technology for disintegration and detoxification of industrial contaminants along with removal of organic waste, he added. He presented salient features and applications of the reactor for waste-water treatment through a case study.

Delivering lecture on 'Understanding Anthropocene in the Era of Sustainable Development', Dr Dutta said that human activity had significantly altered the Earth. These changes include global warming, habitat loss, changes in chemical composition of atmosphere, oceans, soil, and animal extinctions. According to him, foundation of sustainable development is in sustainable human-nature systems. "There is rising scientific evidence that humanity has now entered a new era defined as Anthropocene, in which humanity is shaping the entire biosphere in a globalised phase of environmental change," he said.

Dr Vaidya said that science and technology should be used for welfare of society without any limit. Science, technology and policy together play an important role in national development, he added. Students and teachers from Navodaya Vidyalaya, Kendriya Vidyalaya, and other schools, health workers from State Department of Health and Family Welfare, CSIR-NEERI staff and general public participated in the webinar.

Published in:
Hitavada

CSIR-NEERI

01st March, 2022

सौरऊर्जेतील कचरा व्यवस्थापनवर नागपुरात संशोधन

आज विज्ञानदिन

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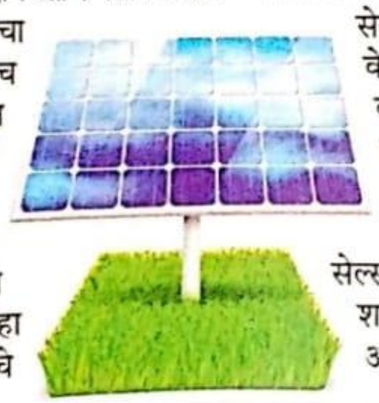
नागपूर : सौरऊर्जेतून निर्माण होणारा कचरा हे भविष्यातील मोठे आव्हान असेल, याचा अंदाज शहरातील राष्ट्रीय पर्यावरण अभियांत्रिकी संशोधन संस्थेला (नीरी) आला आहे. संस्थेने या कचरा व्यवस्थापनावर संशोधन करण्याची तयारी दर्शविली आहे.

अलीकडेच झालेल्या पर्यावरण परिषदेत पंतप्रधान नरेंद्र मोदींनी केलेल्या घोषणेनुसार, २०७०पर्यंत देशातील कार्बन उत्सर्जन पूर्णपणे संपविणे हे भारताचे लक्ष्य आहे. ते साध्य करण्यासाठी सौरऊर्जेचा वापर वाढविणे अत्यावश्यक आहे. इथून पुढील काळात तो झपाट्याने वाढलही आहे. मात्र, त्यातून निर्माण होणाऱ्या कचऱ्याबाबत आपल्या देशात फारशी चर्चा होताना दिसत नाही.

नीरीचा केंद्राकडे प्रस्ताव

याबाबत नीरीचे संचालक डॉ. अतुल वैद्य म्हणाले, 'भविष्यात देशातील सौरऊर्जेच्या वापरात झपाट्याने वाढ होईल. केंद्रासह व देशातील सगळीच राज्ये सौरऊर्जा धोरणाला महत्त्व देत आहेत. ऊर्जेचा अक्षय आणि नैसर्गिक स्रोत असल्याने त्याचा वापर व्हायलाच हवा. मात्र, त्यातून निर्माण होणारा कचऱ्याचा अद्याप फारसा विचार केला जात नाही. पुढील दहा वर्षांत या कचऱ्याचे व्यवस्थापन हे एक मोठे आव्हान ठरू शकते. त्यामुळे आत्तापासून त्याची सुरुवात होणे आवश्यक आहे. या कचऱ्याच्या व्यवस्थापनाबाबतचे संशोधन करण्यासाठी व कचरा व्यवस्थापनाची एक यंत्रणा निर्माण करवून देण्यासाठी नीरी प्रयत्नरत आहे. यासंदर्भात केंद्र सरकारपुढे एक प्रस्ताव सादर केला आहे.'



कसे होते व्यवस्थापन?

यात सोलर पॅनलच्या घटकांना ६०० अंशांपर्यंत गरम करून त्याला वितळविले जाते. त्यानंतर सौरऊर्जेचे सेल्स, काच आणि धातू वेगळे केले जातात. यातील काच आणि धातूंचा वापर हा विविध व्यावसायिक कामांसाठी केला जाऊ शकतो. सौरऊर्जेच्या सेल्सचा पुनर्वापर केला जाऊ शकतो. मात्र, ही प्रक्रिया अत्यंत महागडी आहे.

दृष्टिक्षेपात...

- युरोप आणि इतर पाश्चिमात्य देशांत ही समस्या भेडसावू लागली असल्याने तेथे या कचरा व्यवस्थापनाचे नियम घालून देण्यात आलेत.
- भारताने २०१६मध्ये इलेक्ट्रॉनिक कचऱ्यासंदर्भात काही नियमावली तयार केली. मात्र, त्यात सौरऊर्जेतून निर्माण होणाऱ्या कचऱ्याच्या व्यवस्थापनाचा नामोल्लेखही नाही.
- नीरीद्वारे या कचरा व्यवस्थापनाचा 'रोड मॅप'तयार करण्यासाठी केंद्राकडे प्रस्ताव यात सौरऊर्जा पॅनल्सचा पूनर्वापर करण्याबाबत तसेच त्याचे विघटन करण्याबाबत संशोधन केले जाईल.
- विघटन व पुनर्वापराची महागडी प्रक्रिया स्वस्त करणे यावर संशोधन.

आठ वर्षांत होऊ शकते स्थिती गंभीर

सौरऊर्जेच्या वापरासाठी सोलर पॅनल्सची गरज भासते. २० ते २५ वर्षे ती चालतात. त्यामुळे गुंतवणूकदारांना फारशी चिंता नसते. मात्र, भविष्यात याच पॅनल्सचा कचरा निर्माण होणार आहे. देशात २०३०पर्यंत देशात ३४,६०० टनांचा कचरा निर्माण होईल असे राष्ट्रीय सौर ऊर्जा फेडरेशनने आपल्या एका अहवालात स्पष्ट केले आहे.

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Maharashtra Times

CSIR-NAL

28th February, 2022

सारस का उन्नत संस्करण उड़ेगा 2024 तक

सीएसआईआर-नेशनल एयरोनॉटिकल लैब (एनएएल) के डायरेक्टर जितेंद्र जाधव से विशेष बातचीत...

स्नेहलता श्रीवास्तव
नागपुर। 27 फरवरी

2024 में भारत का पहला उन्नत 19 सीटर सिविलियन एयरक्राफ्ट सारस एमके-2 पहली उड़ान भरेगा. 2025 तक फार-23 उड़ान योग्यता मानक के तहत इस विमान को सैन्य और नागरिक, दोनों ही तरह की उड़ानों की मंजूरी मिलने की उम्मीद है. उन्नत विमान का निर्माण कानपुर स्थित हिंदुस्तान एयरोनॉटिक्स लि. (एचएएल) में 2026 से शुरू होगा.

लोकमत टाइम्स के साथ विशेष बातचीत में यह जानकारी देते हुए सीएसआईआर-नेशनल एयरोनॉटिक्स लैब (एनएएल) बेंगलुरु के डायरेक्टर जितेंद्र जाधव ने बताया कि 30,000 फुट की ऊंचाई पर उड़ने की क्षमता रखने

Lokmat Times *Exclusive*

वाले यह विमान बहुउपयोगी है. यह जरुरत के मुताबिक इस्तेमाल के लिए चार संस्करणों में उपलब्ध होगा-यात्री, कार्गो, वीआईपी परिवहन और एम्बुलेंस. विमान को आपातकालीन बचाव कार्य में भी इस्तेमाल किया जा सकेगा. सीएसआईआर-एनएएल द्वारा हल्के परिवहन विमान के तौर पर विकसित सारस को प्राथमिकता के आधार पर पायलट ट्रेनिंग के लिए इस्तेमाल किया जाएगा.

जाधव ने ऑनलाइन चर्चा ह्यमेकिंग ऑफ सारस-फर्स्ट सिविलियन एयरक्राफ्ट ऑफ इंडियाह्व में शिरकत के बाद इस संवाददाता से बातचीत की. ऑनलाइन चर्चा का आयोजन आजादी के अमृत महोत्सव के विज्ञान सप्ताह के तहत वीएनआईटी और विज्ञान भारती ने मिलकर किया था. सारस परियोजना भारत सरकार के आत्मनिर्भर भारत अभियान का सटीक उदाहरण है.

यह उड़े देश का आम नागरिक (उड़ान) योजना के तहत देश के टायर 2 और टायर 3 शहरों को वायुसेवा से जोड़ेगी.6 मार्च 2009 को बेंगलुरु के पास बिदाडी में सारस के दूसरे प्रोटोटाइप के हादसे में वायुसेना के दो पायलट और एक फ्लाइट टेस्ट इंजीनियर की मौत के बाद भारत सरकार ने परियोजना को रद्द कर दिया था. 2016 में एनएएल ने इसे पुनर्जीवित किया.

भारत सरकार ने वर्ष 2019 में उन्नत संस्करण सारस मैक-2 के लिए 500 करोड़ की राशि स्वीकृत की और परियोजना ने फिर गति पकड़ ली.

सारस एमके-2

सारस एमके2 की अनूठी विशेषताएं

- बहुउपयोगी-यात्री परिवहन, सेना, एम्बुलेंस, प्रशिक्षण.
- गर्म और ऊंचाई पर स्थित हवाई अड्डों से संचालन.
- आधे-अधूरे रनवे से भी उड़ान.
- उड़ान और लैडिंग के लिए कम जगह की जरूरत.
- तीन की बजाय दो लीवर इंजीनियर ऑपरेशंस.
- संचालन और अधिग्रहण की 15-20% कम लागत.
- ऑटो पायलट और केट-2 लैडिंग तकनीक.
- दबावयुक्त कैबिन के साथ कांच का कॉकपिट.
- लंबी उड़ान की क्षमता और उच्च सहनशक्ति
- ब्लॉक ईंधन की कम खपत.

सारस एमके2 के फायदे

- किफायती लागत में शानदार प्रदर्शन.
- उड़ान योजना के तहत ग्रामीण व दूरस्थ इलाकों को वायुसेवा.
- ग्रामीण व दूरस्थ इलाकों का सामाजिक-आर्थिक विकास.
- विदेशी मुद्रा की बचत.
- एयरोस्पेस इकोसिस्टम का विकास
- नागरी विमानों के डिजाइन, उत्पादन के लिए प्रौद्योगिकी और कौशल विकास.
- रखरखाव, मरम्मत और ओवरहॉलिंग (एमआरओ) के क्षेत्र में दखल.
- अंतरराष्ट्रीय नागरी विमानन क्षेत्र में मौजूदगी.

Published in:
Lokmat Samachar

Modified version of Saras Mk2 to fly in 2024: NAL director

Jadhav: First Indian civilian aircraft to be manufactured by HAL Kanpur from 2026

SNEHLATA SHRIVASTAV
LOKMAT NEWS NETWORK
NAGPUR, FEB 27

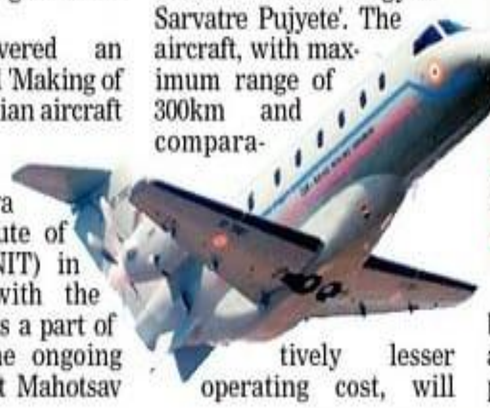
The modified version of India's first 19-seater civilian aircraft, Saras Mk2 will make its maiden flight in 2024. The aircraft will be certified for both military as well as civil use on the basis of FAR-23 Airworthiness standards by 2025. The Kanpur unit of Hindustan Aeronautics Limited (HAL) will start manufacturing the aircraft in 2026.

The aircraft can fly up to a height of 30,000-ft and is a multipurpose carrier. It will be available in four different configurations for different purposes — passenger, cargo, VIP transportation and ambulance.

Talking to *Lokmat Times* **Jitendra Jadhav**, director of CSIR-National Aeronautical Laboratory (NAL), Bengaluru said that the aircraft could also be used for casualty evacuation. Primarily, it will be used as a pilot trainer aircraft. NAL has designed and developed the light transport aircraft.

Jadhav delivered an online talk titled 'Making of Saras: First civilian aircraft of India' organized by the Visvesvaraya National Institute of technology (VNIT) in collaboration with the Vigyan Bharti as a part of the part of the ongoing Azadi ka Amrut Mahotsav science week 'Vigyan Sarvatre Pujyete'. The aircraft, with maximum range of 300km and comparatively lesser operating cost, will boost rapid transportation and connectivity to remote places. Jadhav said that the government was in the final stage of sanctioning funds for another major project of a regional transport aircraft with a seating capacity of 90 passengers. ■ Turn to Pg 6

Lokmat Times Exclusive



- High performance at affordable cost
- Air connectivity to remote and rural areas.
- Technology and skill set development for civil aircrafts.
- Entry into MRO
- Unique features of SARAS MK2
- Multirole- Can be used for commuter, military, ambulance and training purposes.

SARAS MK2 BENEFITS

- Operation from hot and high altitude airfields
- Operation from semi-prepared runaways
- Short take off & landing
- Two lever engineer operations (instead of three)
- Low operation and acquisition cost (15-20% less)
- Auto pilot landing
- Glass cockpit with pressurised cabin
- Low block fuel consumption.

■ Continued from Page 1

Taking forward the 'Atmanirbhar Bharat' mission, the Saras Mk2 project will help in creation of jobs, substantial saving of foreign exchange, development of new technologies and rural air connectivity. It will connect tier 2 and tier 3 cities under the 'Ude Desh Ka Aam Nagarik' (UDAN) scheme. The aircraft is made up of light-weight composite materials, centralized maintenance computer and high performance integrated flight control computer that give it cost and operational advantages over contemporary aircrafts. The Indian government had stopped the project's funding after the death of two Indian Air Force pilots and one flight test engineer in the crash of the second prototype of Saras near Bengaluru in 2009. But the project was revived in 2016 by NAL. Later, in 2019 the government of India allocated a fund of ₹500 crore for the project for the revised version of Saras Mk2.

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CSIR-CRRI

28th February, 2022

345 बस ड्राइवरों को दिया प्रशिक्षण

डॉ. एस. वेलमुरुगन, चंद्रशेखर मोहिते एवं अन्य अतिथियों के साथ प्रशिक्षणार्थी.

नागपुर : आरटीओ कार्यालय में बस ड्राइवरों को 21 से 26 फरवरी तक सड़क सुरक्षा संबंधी प्रशिक्षण दिया गया. सीएसआईआर-केंद्रीय सड़क अनुसंधान संस्थान (सीआरआरआई) नई दिल्ली, अंतरराष्ट्रीय सूचना प्रौद्योगिकी संस्थान (आईआईआईटी) हैदराबाद, इंटेल इंडिया, महिंद्रा एंड महिंद्रा और नागपुर महानगरपालिका के संयुक्त तत्वावधान में आई-रास्ते प्रोजेक्ट के तहत प्रशिक्षण शिविर का आयोजन किया गया. 345 बस ड्राइवरों को प्रशिक्षण और 71 को प्रमाणपत्र प्रदान किया गए. शनिवार को हुए समापन समारोह में जिला सड़क सुरक्षा समिति के उपाध्यक्ष सांसद विकास महात्मे, समिति सदस्य चंद्रशेखर मोहिते, सीएसआईआर-सीआरआरआई के मुख्य वैज्ञानिक डॉ. एस. वेलमुरुगन, अशोक लेलैंड इंस्टीट्यूट ऑफ ड्राइविंग ट्रेनिंग एंड रिसर्च के सुशीलकुमार श्रीवास्तव और डॉ. प्रकाश जैन उपस्थित थे.

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Lokmat Samachar

CSIR-NEERI

27th February, 2022

Seminar at CSIR-NEERI to mark National Science Day tomorrow

LOKMAT NEWS NETWORK
NAGPUR, FEB 26

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) will organise a webinar on 'Integrated Approach for Sustainable Environment' on February 28 at 11.30 am as part of the National Science Day Celebration. This webinar aims to provide the insight, tools and practical guidance for developing a strategic and integrated approach to sustainability. Global head Sustainability and Social Initiatives, Wipro Limited, P S Narayan, assistant professor, Centre for Sustainable Technologies Indian Institute of Science, Bengaluru, Dr Sreenivasan Ramaswami, and assistant professor of Department of Policy and Management Studies, TERI School of Advanced Studies, New Delhi Dr Swarup Dutta will be guest speakers of the programme.

Director of CSIR-NEERI Dr Atul Vaidya has informed that CSIR-NEERI celebrates National Science Day every year to highlight the contribution of environmental science and engineering to mankind. This webinar will be broadcast live on the Facebook and YouTube pages of CSIR-NEERI.

Interested persons can click on the link https://www.facebook.com/dir.neeri to attend the programme.

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