

# CSIR IN MEDIA



**CSIR**

**NEWS BULLETIN**

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## 49 accident-prone spots in city, CRRI to suggest geometric solutions for 39

CSIR-CRRI

09<sup>th</sup> March, 2022

Nagpur: About 39 of the 49 accident-prone spots across the city require geometric solutions, i.e. rectifying dimensions and layout of visible features of road. A study conducted by CSIR-Central Road Research Institute (CRRI) revealed that the highest number of accident-prone roads are owned by National Highways Authority of India (NHAI), followed by Nagpur Municipal Corporation (NMC) and state's public works department. CSIR-CRRI chief scientist S Velumurgan told TOI that the central agency evaluated the accident-prone spots between 2019 and 2021. Among the 49 such spots, identified by Nagpur traffic police, the central agency will help to rectify the geometry of 39 stretches.

“Most of the stretches require closure of road cuttings, pedestrian facilities and strengthening of traffic signals etc,” said Velumurgan and added that the working on geometric solutions has not yet been completed. A geometric solution concerning roads is engineering intervention and black spot rectification, he explained.

TOI has been reporting that ongoing infrastructure works, mostly construction of flyovers and roads, lack safety measures were the main reasons behind the accidents. Also, with the improvement of road infrastructure, speed of vehicles on city roads has increased manifold and thus causing more accidents.

According to the data compiled by traffic police, NHAI's 27 different stretches criss-crossing the city have earned the dubious distinction of witnessing frequent accidents in the last three calendar years (2019, 2020 and 2021), followed by 14 on roads owned by Nagpur Municipal Corporation. State public works department-owned roads have eight such spots.

The 49 accident-prone spots had witnessed 192 accidents, which included 100 fatal and 92 grievous, which claimed 112 lives.



Earlier, the Nagpur traffic police had submitted accident-prone spots report to MP Road Safety Committee headed by Union transport minister Nitin Gadkari. Later, the panel had approached the country's premier engineering institute Visvesvaraya National Institute of Technology (VNIT) seeking its help in studying the accident-prone spots.

However, the institute declined to conduct the study free of cost. And as the panel did not have any funds provision, the proposal to study the accident-prone spots remained in cold storage for many years. "Last year, the Union transport minister discussed the matter with the CSIR and we agreed to conduct the study," said the chief scientist.

The CSIR has gathered data of all accident-prone spots and now it is almost done with preparing the final observations and shortcomings. As per the study, the CSIR is preparing geometric solutions for 39 spots, he said.



## Clean Vision's Clean-Seas India Signs Definitive Agreement with CSIR / IICT; Opens R&D Facility to Support the Project

CSIR-IICT

09<sup>th</sup> March, 2022

LOS ANGELES, CA / ACCESSWIRE / March 9, 2022 / Clean Vision Corporation (OTCQB:CLNV), a holding company that acquires and operates sustainable clean tech and green energy businesses, today announced its wholly owned subsidiary Clean-Seas India has finalized a definitive agreement with India's Council of Scientific and Industrial Research (CSIR) and its Indian Institute of



Chemical Technology (IICT) for the joint collaboration on improvements in waste plastic-to-energy pyrolysis, hydrogen reformation and fuel cell technologies. The work shall be carried out at Clean-Seas India's new R&D facility in Hyderabad, India.

The agreement calls for engineers from Clean-Seas India (CSI) and IICT to work closely in the above referenced functions including collaboratively designed manufacturing processes, as well as to commercialize and scale the technologies. The Agreement's initial term is set for one year, commencing on the commissioning (full operational status) of CSI's pilot pyrolysis unit expected for the middle of this month.

The Clean-Seas pilot pyrolysis plant has cleared India customs in Mumbai, is now being transported to the Company's R&D site, where it is scheduled to arrive this week, upon which CSI engineers will begin installing and testing the unit. Clean Vision Chief Executive Officer, Dan Bates, arrived in Hyderabad earlier this week to sign the IICT agreement and to supervise the unit's installation and testing. This new facility will serve to demonstrate the Company's scalable technology for converting waste-plastic into valuable commodities such as low sulfur fuels, and AquaHTM – the Company's branded hydrogen output. In addition, all





fuel cell development, testing and manufacturing will commence at the Hyderabad location. The customization of its recently licensed hydrogen fuel cell is expected to be completed in the second quarter of the year. The new facility will also serve as a demonstration point for other government and private sector officials from the Asian and Middle East regions.

“Converting LOI’s or MOU’s into binding contracts are fundamental to the success of our business, and are the result of good planning, teamwork and execution,” said Dan Bates, Clean Vision CEO.

Mr. Venkat Kumar Tangirala, Managing Director of Clean-Seas India, added, “Here we are — after nearly a year of planning, analysis, investment, logistics, and tech development — I and the Clean-Seas engineering teams are excited to have finalized our definitive agreement with IICT and thrilled to soon throw the switch on our first installation as we strive to do our part mitigating both the global waste-plastics and climate change crises.”

### **About Clean-Seas, Inc.**

Clean-Seas, Inc. is a wholly owned subsidiary of Clean Vision. It provides efficient and cost-effective technology solutions that address the global waste plastic crisis as well as creating economic opportunity and social benefit in emerging and developed economies across the world. Clean-Seas offers “best in class” pyrolysis technology deployment for plastic waste-to-energy recycling, including securing feedstock and off-take agreements. For more information, visit: [clean-seas.com](http://clean-seas.com).

### **About Clean Vision Corporation**

Clean Vision is a public company that acquires and operates a portfolio of synergistic companies in the sustainable clean technology and green energy sectors. For more information, visit: [cleanvisioncorp.com](http://cleanvisioncorp.com).

### **Safe Harbor Statement**

This press release may include forward-looking statements within the meaning of the Private



Securities Litigation Reform Act of 1995, including statements related to anticipated revenues, expenses, earnings, operating cash flows, the outlook for markets and the demand for products. Forward-looking statements are no guarantees of future performance and are inherently subject to uncertainties and other factors which could cause actual results to differ materially from the forward-looking statements. Such statements are based upon, among other things, assumptions made by, and information currently available to, management, including management's own knowledge and assessment of the Company's industry and competition. The Company assumes no duty to update its forward-looking statements.



CSIR-NBRI

09<sup>th</sup> March, 2022

## सीएसआईआर-एनबीआरआई में अंतर्राष्ट्रीय महिला दिवस मनाया गया कार्य में आनंद और आत्मसंतुष्टि ही सच्ची सफलता : डॉ. शची

संवाददाता लखनऊ। आज अंतर्राष्ट्रीय महिला दिवस समारोह का आयोजन किया गया ताइस अवसर पर समाज सेविका डॉ. शची सिंह, संस्थापक, एहसास (एनजीओ) लखनऊ मुख्य अतिथि के रूप में मौजूद थी। मुख्य अतिथि का स्वागत करते हुये प्रो बारिक ने कहा कि भारत एक ऐसा देश है जहां नारी के विभिन्न देवी स्वरूपों की पूजा अर्चना की जाती है वहीं दूसरी ओर वास्तविक जीवन में अभी भी इन मूल्यों को अपनाने से हम अभी दूर हैं। जब तक हम महिलाओं को सार्वजनिक जीवन में वैसा ही सम्मान नहीं देते इन दिवसों को मनाने का कोई औचित्य

नहीं बनाता। उन्होने संस्थान की महिला कर्मियों को संबोधित करते हुए कहा कि महिलाएं कार्य स्थल की जिम्मेदारी उठाने के साथ साथ घर-परिवार, बच्चों, एवं पति की भी जिम्मेदारियाँ संभालती हैं अतः पुरुष सहकर्मियों को चाहिए कि इस स्थिति को समझ कर ही महिला कर्मियों के विषय में कोई विचार रखे एवं निर्णय लें। वहीं महिला कर्मियों का भी आवाहन किया कि वह अपनी जिम्मेदारियों को और भी निष्ठा पूर्वक पूर्ण करें। कार्यक्रम की रूपरेखा प्रस्तुत करते हुए डॉ. विधु साने, वरिष्ठ प्रधान वैज्ञानिक ने बताया कि एक समय इस दिन को राजनीतिक विरोध के लिए

मनाया जाता था लेकिन समय के साथ साथ अब इसे उन महिलाओं के संघर्षों का सम्मान करने के लिए मनाया जाने लगा है जिनहोने अपने कार्यों एवं प्रयासों से विश्व पटल पर अपनी एक अलग पहचान बनाई। मुख्य अतिथि डॉ. शची सिंह ने अपने सम्बोधन में रेलवे प्लेटफॉर्म पर बेसहारा बच्चों के साथ अपने अनुभवों को साझा करते हुए बताया कि हम सभी रेलवे प्लेटफॉर्म पर आते जाते हैं लेकिन वहाँ एक अलग ही दुनिया बसती है जिसका एहसास हमको कम ही हो पता है। यहाँ बेसहारा बच्चों की एक भीड़ होती है जो कूड़ा उठाने, सामान बेचने से लेकर भीख मांगने में व्यस्त रहती

है। इनमें से अधिकांश ऐसे होते हैं जो घरों से भाग कर आए होते हैं और धीरे धीरे इस अंधेरी दुनिया में खो जाते हैं। आज हम अपने आस पास देखें तो हमें इनमें 13 वर्ष से अधिक उम्र की लड़कियां देखने को नहीं मिलतीं, वे या तो घरों में काम करने लगती हैं, या उनकी कम उम्र में शादी हो जाती है या बुरी नजरो का निशाना बन कर जीवन भर अंधेरे में खो जाती हैं। उन्होने कहा कि आज आवश्यकता है कि इन समस्याओं के आकड़ों में न पड़कर अपने स्तर पर इस स्थिति को बदलने की हर छोटी से छोटी कोशिश की जाय। उन्होने युवा लड़कियों को सफलता के सूत्र भी दिये और

कहा कि सफलता का अर्थ अपने कार्य से मन में खुशी एवं संतोष होना है और इसके लिए आवश्यक है कि स्वयं को स्त्रीध पुरुष से ऊपर उठाकर एक अच्छा इंसान बनाने के लिए स्वयं पर कार्य किया जाय, अन्तर्मन की आवाज सुनी जाय, अपने एहसासों को समझा जाय, भयमुक्त होकर ईमानदार तरीके से अपना कार्य किया जाए, प्रेमी एवं दयालु बना जाय एवं हमेशा अपने अंदर की शक्ति पर विश्वास रखा जाए समारोह के अंत में डॉ. मेहर आसिफ, प्रधान वैज्ञानिक ने धन्यवाद ज्ञापन प्रस्तुत किया इस अवसर पर संस्थान में कार्यरत महिला वैज्ञानिक एवं अन्य कर्मचारी उपस्थित थे।

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CSIR-NBRI

09<sup>th</sup> March, 2022

### **'WOMEN NEED SAME RESPECT AS MEN'**

Speaking on the occasion, CSIR-NBRI director SK Barik said: "India is a country where various forms of women are worshipped as deities, but we are still far away from adopting these values in real life. Unless we give the same respect to every woman, there is no justification for celebrating any day." Senior principal scientist Vidhu A Sane said the day was earlier more of a political protest but with due course of time, it is aimed at celebrating the women for their struggles, efforts and contributions to the world.

Shachi Singh, while sharing her social work for destitute children on railway platforms, said: "We all visit railway platforms but there is a different world out there which we barely realise. There is a crowd of destitute children begging alms, picking up garbage and selling goods to make ends meet. Most of them are those who ran away from their homes and slowly got lost in this dark world. Today if we look around us, we do not get to see girls above the age of 13 among them. They either start working in homes or get married at a young age or become the target of evil eyes of the world. Hence, today it is necessary that every effort should be made to change this situation at our level without looking into the statistics."



## Ayush Ministry signs MoU with CSIR, ICAR to promote agri-tech related to medicinal plants

CSIR

08<sup>th</sup> March, 2022

Ministry of Ayush has signed a tripartite Memorandum of Understanding with Council of Scientific & Industrial Research (CSIR), and Indian Council of Agricultural Research (ICAR) for Inter-Ministerial co-operation for the promotion and facilitation of research and development, validation, and deployment of agri-technologies related to medicinal plants and their value-added products of benefit to humans, plants and animals.



The MoU was signed by Vaidya Rajesh Kotecha, Secretary, Ministry of Ayush, Dr. Trilochan Mohapatra, Director General, ICAR and Secretary, Department of Agricultural Research and Education, and Dr. Shekhar C. Mande, Director General, CSIR and Secretary, DSIR in the presence of senior officials from the three organizations in New Delhi.

Previously, the Parties had bilateral cooperation with each other. The national aspirations related to Atmanirbhar Bharat draws necessity for multi-party stakeholder cooperation to achieve the defined goals. India with its vast history of rich culture and traditions has been endowed with valuable scientific heritage in the fields of health, wellness, agriculture, and food among many others. This rich heritage holds relevance not only in contemporary times but would address futuristic needs as well, by way of cooptation and integration with modern science and technology.

The key objective of the tripartite MoU signed today by the Ministry of Ayush, ICAR and CSIR is to draw cognizance to the traditional agricultural practices of India, and take up joint



R&D pursuits for validating and deploying these interventions for facilitating socio-economic growth in the country.

On this occasion, Vaidya Rajesh Kotecha, Secretary, Ministry of Ayush drew attention to valuable traditional knowledge in the form of Vrikshayurved, Mrigayurved, etc., stating that the cooperation will be instrumental in validating these traditional sciences and practices towards integrative agriculture for the benefit of not only humans, but also plants and animals. He also touched upon the Ayurved Aahar initiative of the Ministry of Ayush and International Year of Millets in 2023, and the potential of the three Parties to contribute to the cause and promote healthy food habits based on traditional diets of India

Speaking on the occasion, Dr. Trilochan Mohapatra, Director General, ICAR and Secretary, DARE stated that the cooperation being signed by ICAR, Ayush and CSIR is a historical milestone towards reaffirming the mandates of the three organizations to the national goals on food & agriculture. The effort will focus on specific joint activities by the three Parties in the said areas to make a significant impact to the lives of Indians.

Dr. Shekhar C. Mande, DG, CSIR and Secretary, DSIR appreciated the organic linkages of CSIR with ICAR in the area of agriculture including horti-floriculture, and the Ministry of Ayush towards promoting traditional medicines, especially during the COVID-19 pandemic. He drew importance to the tripartite cooperation being brought during the day for linking the vastness of Indian traditional knowledge through modern S&T tools and the common goals of the Parties towards Atmanirbhar Bharat, especially towards ensuring food security and enhancing the livelihoods of the farmers. The Secretaries proposed to form a Joint Working Group involving officers from the Ministry of Ayush, ICAR, and CSIR for effective implementation of the MoU. This JWG will meet at least twice in a year to follow up the execution of this MoU and suggest necessary measures for its development.



## Women should be determined to excel in STEM: Dr. Arvind Sinha

CSIR-NML

08<sup>th</sup> March, 2022

Jamshedpur, March 8: CSIR-National Metallurgical Laboratory (NML), Jamshedpur in association with the National Institute of Advanced Manufacturing Technology (NIAMT), Ranchi, and Indian Institute of Metals (IIM), Jamshedpur Chapter organized lecture on 'Women in STEM' on March 8 to celebrate International Women's Day. The lecture was delivered virtually.



This lecture was organized as part of the project “Women Technology Park (WTP)” which is sponsored by the Department of Science & Technology (DST), Government of India.

The welcome address was delivered by Dr. Arvind Sinha, Chief Scientist and Advisor Management at CSIR-NML. He briefly talked about the history behind the celebration of international women's day. He encouraged the women in India to come forward and shine in the fields of Science, Technology, Engineering and Mathematics (STEM).

His address was followed by a short speech by Dr. A. N. Bhagat, Chairperson of IIM, Jamshedpur Chapter. He talked about the core activities of this chapter and explained how successfully IIM is contributing to the field of metallurgical engineering in this country.

Dr. Mita Tarafder, Chief Scientist & Head, KRIT Division of CSIR-NML introduced the guest speaker of the evening program Emma Reiss. Reiss has completed her B. Engg. From the University of Sheffield, UK and is currently engaged as a Project Engineer at Jenx Ltd., UK. She is also the author of the book titled 'Female Innovators Who Changed Our World –



How Women Shaped STEM'. In her lecture, she talked about a few American women pioneers in science and engineering like Patricia Bath, Lillian Gilbreth and Mamie Phipps Clark and inspiring stories of their struggles and contributions in the fields of medical science, management and social psychology.

Sonam Kumari, Project Associate at CSIR-NML extended the vote of thanks. The program was attended by more than 40 professionals from various organizations.



## State level workshop / exhibition on Tree Bean (Yongchak) to be held

CSIR-NEIST

08<sup>th</sup> March, 2022

Imphal, March 08 2022: A two day State level workshop cum exhibition on Tree bean (Yongchak) will be held from March 15-16 at Indian Council of Agricultural Research (ICAR) Complex for NEH Region, Manipur Centre.

As per a press release by I Meghachandra Singh, Joint Director ICAR Complex for NEH Region, Manipur Centre informed that workshop cum exhibition is being organised by ICAR, Manipur Centre in collaboration with Manipur University, CAU, IBSD, CSIR-NEIST, MOMA and Apunba Imagi Machasing (AIMS) .

All the tree bean farmers of the State have been requested to participate in the exhibition and the last date for registration is on or before March 13 .

A cash award of Rs 25,000, Rs 15,000 and Rs 10,000 will be given to the first, second and third prize winners (best stall/exhibitors) respectively along with five consolation prize of Rs 3,000 each.

For further query, one can contact at mobile number-7011990801 and at email-aimsmanipur96@gmail.com, added the press release.

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[E-pao](#)



## CSIR-IMMT CELEBRATES WOMEN'S DAY

CSIR-IMMT

08<sup>th</sup> March, 2022



Bhubaneswar(08/03/2022): On occasion of International Women's Day, a skill development training and demonstration programme was organized by Maa Bhagabati F2M Farmers Producing Company at Mahanga, Cuttack. Around 25 women participated in this programme. Dr N K Dhala and Dr Sony Pandey and her team from CSIR-IMMT, Bhubaneswar Demonstrated on the skill development training and programme on Natural disinfectant Surface cleaner



## Lavender farming to witness major boom under 'one district one product' initiative in JK's Doda

CSIR-IIIM

06<sup>th</sup> March, 2022

Considered as the birthplace of India's purple revolution, Jammu and Kashmir's Doda district is likely to witness a major boom in Lavender farming under the 'one district, one product' scheme with the government, army and various other institutions coming forward in a big way to boost its production. The central government has designated Lavender as 'Doda brand product' to promote the exotic aromatic plant, bringing cheers to agri startups, entrepreneurs and farmers associated with its cultivation under the Aroma mission.



To help the startups, Bhandarwah-based Rashtriya Rifles unit has sponsored a lavender nursery at Dradhu village and has established a fully-funded lavender by-products unit at Nai-Basti hamlet, where womenfolk are being trained in making soaps, incense sticks, perfume, hand wash and room fresheners to provide 'value addition' to the aromatic plant.

"Medicinal and aromatic plants sector is a sunrise industry with plenty of opportunities for new, young, innovative entrepreneurs for starting successful, eco-friendly, natural product industries," Commanding officer of the Bhandarwah-based Rashtriya Rifles unit, colonel Rajat Parmar told PTI.

CSIR-IIIM (Council of Scientific and Industrial Research- Indian Institute of Integrative Medicine) Jammu has distributed eight lakh saplings among the farmers after 'one district, one product' initiative and has set a target to grow another 50 lakh saplings in Bhandarwah by September, for distribution among the farmers under the Aroma Mission two, not only in



Doda but also in Reasi, Udhampur, Kathua and Rajouri districts of the Jammu province. "In the next two to three years, we are expecting a five-fold increase in production, which will surely develop agri-entrepreneurs that will help establish lavender as a brand of Doda in the entire country," Nodal Scientist CSIR Aroma Mission, Sumit Gairola.

Secondly, he said the initiative will also help in shifting focus of the government and industry towards Lavender and its products in Doda will multiplying the income of local farmers. Gairola said it will also help boost the tourism sector in Baderwah, also known as mini-Kashmir, for its beautiful and mesmerizing landscape.

"I became a laughing stock in my village when I decided to switch from traditional maize growing to lavender farming 10 years back, but after the Union government's Aroma Mission in 2016, more farmers started growing aromatic plants especially lavender and by 2020, Baderwah Valley became popular for starting purple revolution," national award winning farmer Bharat Bhushan said. He said he feels proud to be a part of this, as lavender has been declared the brand product of the district.

"NABARD also encouraged and funded us to form an FPO. In a short span of time, 120 progressive lavender farmers have joined Himalayan essential oils and have started raising two dozen nurseries at different locations in Baderwah including Dradhu, Nai Basti, Khellani, Lehrote and Neota," Bhushan said.

National Bank for Agriculture and Rural Development (NABARD) has formed an FPO (Farmer Producer Organization) in Baderwah to provide end-to-end support and services to the Lavender farmers, and cover technical services, marketing, processing, and other aspects of cultivation inputs.

To speed up the production of lavender saplings to meet the growing demand, department of agriculture production and farmers welfare has sponsored naturally ventilated semi high-tech poly greenhouses in and around Baderwah, where saplings will be grown scientifically



which will eventually help in bringing more area under lavender farming in less time. Farmers and other stakeholders associated with the production and extraction of oil and other value added products from lavender expressed their gratitude to the Prime Minister Narendra Modi and union minister Jatinder Singh for recognizing their efforts and giving them a unique identification in the form of declaring Doda as Lavender district.

"This will go a long way in not only making the farmers economically self-reliant but also bringing Bhaderwah on the international map of tourism for being known as the birthplace of India's purple revolution," young entrepreneur from JK Aroma Bhaderwah, Touqeer Bagwan said.



CSIR-NAL

06<sup>th</sup> March, 2022

## पुदुचेरी में हुआ परीक्षण: अप्रैल 2022 तक टाइप सर्टिफिकेशन की उम्मीद हंसा-एनजी ने भरी समुद्र के ऊपर सफल उड़ान

बेंगलूरु @पत्रिका. देश के पहले स्वदेशी प्रशिक्षण विमान 'हंसा' के नए एवं उन्नत संस्करण 'हंसा-एनजी' ने समुद्र के ऊपर उड़ान भरने का परीक्षण सफलतापूर्वक पूरा कर लिया है। वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद तथा राष्ट्रीय वांतरिक्ष प्रयोगशाला (सीएसआइआर-एनएएल) द्वारा विकसित इस विमान का यह परीक्षण पुदुचेरी में हुआ।

एनएएल की ओर से दी गई जानकारी के अनुसार पुदुचेरी में 19 फरवरी से 5 मार्च तक 'हंसा-एनजी' का परीक्षण किया गया। इस दौरान विमान ने 140 समुद्री मील की दूरी 155 किलोमीटर प्रति घंटे की रफ्तार से डेढ़ घंटे में तय की और सुरक्षित लैंड किया। इस दौरान विमान को कई



महत्वपूर्ण मानदंडों पर परखा गया। एनएएल ने कहा है कि विमान हैंडलिंग, क्रूजे, बाल्डलैंडिंग, संरचनागत प्रदर्शन, पॉजिटिव और निगेटिव 'जी' आदि कई पैमानों पर परखा गया। समुद्र स्तर के तमाम परीक्षण में विमान का प्रदर्शन आशा के अनुरूप रहा।

पुदुचेरी में 18 घंटे की उड़ान परीक्षण के बाद विमान शनिवार को बेंगलूरु लौट आया। एएसटीई के विंग कमांडर केवी प्रकाश विमान और विंग

कमांडर दिलीप रेड्डी विमान के पायलट थे। एनएएल के डिजाइनरों और उड़ान परीक्षण निदेशक विंग कमांडर रीजू चक्रवर्ती ने उड़ान परीक्षण की निगरानी की।

रोटेक्स डिजिटल कंट्रोल इंजन संचालित हंसा-एनजी एक उन्नत प्रशिक्षण विमान है जिसमें कम्पोजिट लाइट वेट एयरफ्रेम, ग्लास कॉकपिट, बबल कैनोपी विथ वाइड पैनोरमिक व्यू, इलेक्ट्रिकली ऑपरेटेड फ्लैप आदि

जैसी अनूठी विशेषताएं हैं। इसे भारतीय फ्लाईंग क्लब की जरूरतों को ध्यान में रखकर किया गया है। कम लागत और कम ईंधन खपत के कारण यह वाणिज्यिक पायलट लाइसेंसिंग (सीपीएल) के लिए एक आदर्श विमान है। इसके लिए विभिन्न फ्लाईंग क्लबों से पहले ही करीब 80 अभिरुचि पत्र प्राप्त हो चुके हैं। एनएएल के निदेशक ने कहा कि विमान की 37 उड़ानें लगभग 50 घंटे की पूरी हो चुकी हैं। डीजीसीए से टाइप सर्टिफिकेशन के लिए कुछ और उड़ानें आवश्यक हैं। उम्मीद है कि टाइप सर्टिफिकेशन अप्रैल 2022 तक हासिल कर लिया जाएगा और उसके बाद सार्वजनिक एवं निजी क्षेत्रों की भागीदारी के तहत इसका निर्माण शुरू किया जाएगा।

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CSIR-NAL

06<sup>th</sup> March, 2022

## Indigenous flying trainer HANSA-NG completes sea-level trials in Puducherry



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. Reeru 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.

PTI

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## HANSA-NG Plane finishes sea-level trials

# ದೇಶದ ಮೊದಲ ಸ್ವದೇಶಿ ತರಬೇತಿ ವಿಮಾನ 'ಹಂಸ' ಯಶಸ್ವಿ ಹಾರಾಟ

ಸಮುದ್ರದ ಮೇಲೆ 18 ತಾಸು ಹಾರಾಟ | ವಾಣಿಜ್ಯ ಬಳಕೆಗೆ ಶೀಘ್ರ ಅನುಮತಿ

• ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ ಬೆಂಗಳೂರು

ಭಾರತದ ಮೊದಲ ಸ್ವದೇಶಿ ತರಬೇತಿ ವಿಮಾನ 'ಹಂಸ-ಎನ್‌ಜಿ'ಯ ಸಮುದ್ರದ ಮೇಲಿನ ಹಾರಾಟ ಪರೀಕ್ಷೆ ಯಶಸ್ವಿಯಾಗಿದೆ. ರಾಷ್ಟ್ರೀಯ ವೈಮಾಂಶಿಕ ಪ್ರಯೋಗಾಲಯ (ಎನ್‌ಎಎಲ್) ವಿನ್ಯಾಸಗೊಳಿಸಿ ಅಭಿವೃದ್ಧಿ ಪಡಿಸಿರುವ ಈ ವಿಮಾನ ವಿವಿಧ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಉತ್ತೀರ್ಣವಾಗಿದ್ದು ವಾಣಿಜ್ಯ ಬಳಕೆಗೆ ಅವಕಾಶ ಪಡೆಯುವ ಅಂತಿಮ ಹಂತಕ್ಕೆ ಬಂದಿದೆ.

ಪುದುಚೇರಿಯ ಕಡಲ ಮೇಲೆ ಈ ಪ್ರಯೋಗಾರ್ಥ ಹಾರಾಟ ನಡೆದಿದ್ದು, 140 ನಾಟಿಕಲ್ ಮೈಲಿ (1 ನಾಟಿಕಲ್ ಮೈಲಿ-1.852 ಕಿ.ಮೀ.) ಅಂತರವನ್ನು ಒಂದೂವರೆ ಗಂಟೆಯಲ್ಲಿ ಕ್ರಮಿಸಿದೆ. ಈ ಹಾರಾಟದ ಸಂದರ್ಭದಲ್ಲಿ ವಿಮಾನವಿರುವ, ಇಳಿಯುವ, ನೆಲ ಸ್ಪರ್ಶಿಸುವ, ವಿಮಾನದ ಸಂರಚನೆಯ ಪ್ರದರ್ಶನ ಮುಂತಾದ ಅಗತ್ಯ ಅಂಶಗಳನ್ನು



ಪರಿಶೀಲಿಸಲಾಗಿದೆ ಎಂದು ಎನ್‌ಎಎಲ್ ಹೇಳಿದೆ.

18 ಗಂಟೆ ಸಮುದ್ರದ ಮೇಲಿನ ಹಾರಾಟ ನಡೆಸಲಾಗಿದೆ. ಸಮುದ್ರ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಪರಿಗಣಿಸಬೇಕಾದ ಎಲ್ಲ ಉದ್ದೇಶಗಳೂ ಈಡೇರಿದ್ದು, ಈ ವಿಮಾನವನ್ನು ಮತ್ತೆ ಬೆಂಗಳೂರಿಗೆ ತರಲಾಗಿದೆ. ಇನ್ನೂ ಕೆಲ ಸುತ್ತಿನ ಹಾರಾಟದ ಬಳಿಕ ನಾಗರಿಕ ವಿಮಾನಯಾನ ಮಹಾನಿರ್ದೇಶನಾಲಯದ ಪ್ರಮಾಣೀಕ

ರಣಕ್ಕೆ ಏಪ್ರಿಲ್‌ನಲ್ಲಿ ಅರ್ಜಿ ಸಲ್ಲಿಸಲಾಗುವುದು. ಈ ವಿಮಾನಕ್ಕೆ ಮಾನ್ಯ ತೆ ಸಿಕ್ಕರೆ ಸಾರ್ವಜನಿಕ-ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವದಲ್ಲಿ ಈ ವಿಮಾನದ ಉತ್ಪಾದನೆಯ ಪ್ರಯತ್ನಕ್ಕೆ ಕೈ ಹಾಕಲಾಗುವುದು ಎಂದು ವೈಜ್ಞಾನಿಕ ಮತ್ತು ಕೈಗಾರಿಕಾ ಸಂಶೋಧನಾ ಪರಿಷತ್ ಮಹಾನಿರ್ದೇಶಕ ಶೇಖರ್ ಸಿ. ಮಂಡೇಹೇಳಿದ್ದಾರೆ. ಈ ವಿಮಾನ ನಿರ್ಮಾಣದಲ್ಲಿ ಪ್ರಮುಖ ಪಾತ್ರ ವಹಿಸಿರುವ ಎನ್‌ಎಎಲ್, ಎಎಸ್‌ಟಿಇ, ಡಿಜಿಸಿಎ ಮತ್ತು ಎಚ್‌ಎಎಲ್ ಸಂಸ್ಥೆಗಳನ್ನು ಅವರು ಅಭಿನಂದಿಸಿದ್ದಾರೆ.

ಭಾರತದಲ್ಲಿ ತರಬೇತಿ ವಿಮಾನಗಳ ಬೇಡಿಕೆಯನ್ನು ಪೂರೈಸುವ ನಿಟ್ಟಿನಲ್ಲಿ ಈ ವಿಮಾನವನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸಲಾಗಿದೆ. ಕಡಿಮೆ ಇಂಧನ ಬಳಕೆ ಮತ್ತು ಮಿತ ದರದ ಕಾರಣದಿಂದ ಈ ವಿಮಾನವು ಹಾರಾಟ ತರಬೇತಿ ಸಂಸ್ಥೆಗಳ ಗಮನ ಸೆಳೆಯುವ ನಿರೀಕ್ಷೆಯನ್ನು ಎನ್‌ಎಎಲ್ ಹೊಂದಿದೆ.





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