

# CSIR IN MEDIA



CSIR

## NEWS BULLETIN 26 TO 30 JUNE 2021



**Measured pressure drop across the N95 mask**

**Assumptions**  
N95 Mask is fitted attached over face of the human model. Mask cannot use used for multiple cycles. The maximum and minimum pressure requirement during intake and exhale cycle is measured using micro-manometer.

Flow rate	Measured pressure drop across the N95 Mask	
	Minimum differential pressure (Pa)	Maximum differential pressure (Pa)
12	4.15 - 13.54	20.12 - 30.2
15	5.7 - 8.12	20.12 - 27.1
18	-3.7 - 4.4	21.1 - 26.2
20	4.36 - 14.1	21.2 - 29.6

**With compressed air and N95 Mask**

Flow rate	Minimum differential pressure (Pa)	Maximum differential pressure (Pa)
0	29 - 35	24.5 - 31
2.5	20.3 - 15.5	26.3 - 34.2
5	14.22 - 12.2	19.9 - 27.5
12	4.18 - 14.43	19.2 - 29.1
15	-5.4 - 8.38	20.4 - 26.2
18	-3.5 - 7.8	18 - 23.8
20	2.78 - 12.1	15.3 - 30.2

**Observation**  
The maximum positive pressure rise is 30 Pa with N95 Mask. The negative pressure was -15.5 Pa.

**ASK QUESTION**

**THE ELEMENT OF HOPE IN THE COVID ERA: OXYGEN**





## Lockdown gave Earth its own ‘quiet moment’: Gujarat geologists

CSIR-NGRI

30<sup>th</sup> June, 2021

AHMEDABAD: When the hubbub of human life was silenced by lockdown, Gujarat geologists could measure the earth’s seismic voice dropping into a calm hum — the planet was enjoying its very own “quiet moment”. The geologists from the Institute of Seismic Research in Gandhinagar measured the earth’s whir between March 25 and May 7, 2020, when Covid had shut down



everyday life. The geologists tracked the sound with seismometers planted deep inside the earth at 12 locations.

The ISR noted 79% to 87% drop in seismic noise levels around ceramic factories of Morbi and a fall of 27% to 79% in urban areas. There was a 29% to 35% drop in noise levels in the populated zones of rural areas and a 7% to 18% slide in remotely located seismic stations in the state.

The ISR and the National Geophysical Research Institute, Hyderabad, recorded an overall lowering of 1 to 19 decibels in noise levels across the state. The reduction was recorded mainly in Kutch, Saurashtra, South Gujarat, and the mainland Gujarat region.

This measurements were made possible by the drastic curtailment of the sources of human bustle such as factories, transport, machinery, mining explosions, and construction.





Station	Change in seismic noise during lockdown (%)		Overall Reduction in noise (decibels dB)
	5 to 15 hertz	15 to 20 hertz	
Bhuj	-30 (day), -31 (night)	-29 (day), -37(night)	- 2
ISR campus Gandhinagar	-45(day), -25 (night)	-44 (day), -1 (night)	- 6
Dwarka	-31(day), -2 (night)	-46(day), 0 (night)	-5
Morbi	-79(day), -87(night)	-58(day), -70(night)	-19
Junagadh	-48(day), -29 (night)	-39(day), 26(night)	-7
Lalpur	-27(day), 32 (night)	-34(day), -43(night)	-4
Ukai	-39(day), -21(night)	-36(day), -36(night)	-9
Una	-7(day) 36(night)	14(day), 47(night)	-1
Surendranagar	-29(day), -30(night)	-9(day), 5(night)	-8

These factors are usually responsible for high-frequency vibrations that contribute to a background buzz or noise inside earth. “We have considered the median human activity related background noise values in the frequency range of 5-15 hertz to depict the change in the anthropogenic seismic noise levels during the lockdown period across 12 stations in Gujarat,” said the research paper. ‘Anthropogenic’ means originating in human activity.

The paper was published in the April edition of ‘Nature’ and has been authored by ISR’s Ketan Roy, Jyoti Sharma, and Santosh Kumar. M Ravi Kumar was the co-author from the NGRI.

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[Timesofindia](https://timesofindia.com)



## NEERI genome sequencing prompt, NIV results pending for over a year

CSIR-NEERI, CCMB

30<sup>th</sup> June, 2021

Nagpur: Though the district administration decided to send the 10 samples of Covid patients from the Umred family to the National Institute of Virology (NIV), Pune, for genomic sequencing, the research body and the two medical colleges haven't been able to speedily process and deliver results of the earlier cases. This time, too, the response has been ordinary with the 10 samples yet to be sent to the NIV by the Indira Gandhi government medical college and hospital (IGGMCH) and the government medical college and hospital (GMCH), which were assigned the task by the district collector.

On the other hand, CSIR-NEERI has already sent the sequencing quality RNA of eight Umred family samples while those of two more family members found Covid positive later haven't been shared with it. NEERI, carrying out genomic sequencing in association with the Centre for Cellular and Molecular Biology (CCMB), Hyderabad, is set to declare the results through the collector in a day or two.

Compared to the NEERI-CCMB study speed, no one knows the fate of hundreds of samples sent by the IGGMCH and the GMCH viral research diagnostics lab (VRDL) since the outbreak of the pandemic.

As soon as the collector requested NEERI Nagpur's head of environmental virology Dr Krishna Khairnar, its team had taken RTPCR samples and initiated sequencing before rushing them to CCMB.

Eight samples are reportedly still lying at IGGMCH while two are at GMCH. In December last year, both the medical colleges had passed the buck, leaving the samples of UK strain suspects for more than two days. The sequencing results of the UK-returned Covid positive were delayed for over 14 days by NIV which has workload from across the country.



As early results are expected from NEERI, it will also come as a respite for the eight patients who are placed in institutional quarantine at the Umred Covid Care Centre.

Officials from both medical colleges said NIV has never been prompt in taking up samples or delivering results. IGGMCH officials said that as per the protocol, they have been sending specific samples every 15 days to NIV Pune but have rarely got the results. GMCH officials, too, said that initially, they would ask for results but didn't get a response.

Some 150 samples were sent to NCDC in New Delhi during the second wave from different pockets of the city. Results of these too were not shared with the administrative officials or medical colleges.

Arguably, NEERI is probably the only centre where a large number of samples have been sequenced for a city. On request from the then divisional commissioner Sanjeev Kumar, the premier research body and CCM had sequenced 412 samples between October 2020 and May 2021.

The NEERI lab would send a batch of 100 samples to CCMB and get results within 10 days. Unlike the secrecy and denial by other institutes, NEERI had submitted a detailed report to Kumar.

As per the report, NEERI, led by Dr Khairnar, was the first to report lineage B1.617.2 (double mutant) to Indian SARS-CoV2 Genomics Consortium (INSACOG) on SARS-Cov2 genome sequencing. The variant was later named Delta by WHO in May. It was found that Delta is prevalent in over 70% positive patients.

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# बेहतर हिंदी क्रियान्वयन के लिए राजभाषा पुरस्कार से सीएसआईआर-सीएमआईआरआई सम्मानित

**दुर्गापुर.** नगर राजभाषा कार्यान्वयन समिति, दुर्गापुर के तत्वावधान में सीएसआईआर सीएमआईआरआई में तकनीकी हिंदी वेबिनार सह हिंदी कार्यशाला का आयोजन किया गया. इस आयोजन के दौरान दुर्गापुर के नराकास, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार द्वारा सीएसआईआर-सीएमआईआरआई को अपने संस्थान में बेहतर हिंदी कार्यान्वयन के लिए नराकास दुर्गापुर स्तर पर तृतीय पुरस्कार से सम्मानित किया गया. इस आयोजन में नराकास, दुर्गापुर से 50 से अधिक प्रतिभागियों ने भाग लिया. इस अवसर पर संस्थान के निदेशक डॉ. हरीश हिरानी ने बताया कि उनके संस्थान में होनेवाले तकनीकी वेबिनार को भी वे प्रायः हिंदी में ही करवाने का प्रयास करते हैं. उन्होंने तकनीकी वेबिनार के प्रतिभागियों को



संस्थान में विकसित ऑक्सीजन संवर्धन इकाई से संक्षिप्त परिचय भी कराया. नराकास, दुर्गापुर के सदस्य सचिव कमलेंदु मिश्र हिंदी कार्यशाला के अतिथि संकाय के तौर पर आमंत्रित थे. उन्होंने व्याख्यान के दौरान अपने 30 वर्ष के हिंदी कार्यान्वयन से जुड़े अपने

अनुभव को साझा किया. उन्होंने बताया कि प्रायः हर संस्थान में हिंदी कर्मियों की संख्या अत्यंत सीमित होती है. लेकिन हिंदी कार्यान्वयन का क्षेत्र अपेक्षाकृत अति विस्तृत होता है. इसलिए किसी भी संस्थान के संपूर्ण हिंदी कार्यान्वयन की जिम्मेदारी उस संस्थान के सभी कर्मियों

को एक टीम वर्क के तौर पर निभानी चाहिए. इसके उपरांत ऑक्सीजन संवर्धन इकाई पर व्याख्यान देते हुए संस्थान के प्रशासनिक अधिकारी जयशंकर शरण ने बताया कि कोरोना के दौरान ऑक्सीजन संवर्धन इकाई ने ऑक्सीजन आपूर्ति की समस्या को सुलझा दी. उन्होंने कहा कि हमारे वातावरण की हवा में मौजूद ऑक्सीजन को यह मशीन छानकर निकालती है. कुछ समय के बाद यह मशीन इतनी लोकप्रिय हो जाएगी कि आपातकालीन ऑक्सीजन सेवा के लिए छोटे बड़े अस्पतालों के अलावा घरों में भी यह मशीन धीरे धीरे उपलब्ध हो जाएगी. अंत में यह कार्यक्रम प्रशासनिक अधिकारी जयशंकर शरण और वरिष्ठ हिंदी अनुवादक संजय कुमार मिश्र के सफल संचालन के साथ समाप्त हुआ.



## Coronavirus' Delta Variant Now Starts to Cripple Asia-Pacific Region, Restrictions Imposed Across Borders

CSIR-NCL

28<sup>th</sup> June, 2021

What some might consider the third wave has hit Asia-Pacific regions. According to a report by Times of India, Moscow on Sunday recorded its worst daily coronavirus death toll and Indonesia saw more than 21,000 in a day, also a record. Russia as a whole has seen an explosion of new infections since mid-June driven by the Delta variant. The Delta variant is also feeding



fresh outbreaks in Southeast Asia and Australia where authorities have brought back or infections Delta

More than 110 Covid-19 cases have been reported in Sydney since a driver for an international flight crew tested positive in mid-June for the Delta variant. Australia's northern city of also entered a separate snap 48-hour lockdown on Sunday after a handful of cases were linked to a coronavirus outbreak on a remote gold mine. New Zealand extended restrictions in the region for two days despite finding no evidence yet that an Australian tourist with Covid19 spread the virus while visiting the city last weekend.

More than 21 cases of the Delta plus variant of Covid-19, considered highly infectious, have been reported in Maharashtra threatening to massively dent the state's fight against the virus as experts warn that this variant may trigger a third wave of the pandemic in the state.

Kerala, Karnataka, and Madhya Pradesh, too, have reported cases of this deadlier variety.



The new Delta plus variant has been formed due to a mutation in the Delta or B.1.617.2 variant, first identified in India and one of the drivers of the deadly second wave.

It has been detected in nine countries, including UK, Portugal, Switzerland, Poland, Japan, Nepal, China, and Russia, apart from India.

As India was hit by the second wave of Covid-19 hit earlier this year, experts partly blamed it on a triple mutant of the novel coronavirus of B.1.617.2 lineage, detected in India at the end of last year. The World Health Organization (WHO) named it Delta on May 31. Later, the highly transmissible variant of Sars-CoV-2 mutated further into Delta Plus of AY.1 lineage. Scientists added that there is no immediate cause for concern as its incidence in the country is still low.

The new strain Delta Plus contains a K417N mutation in its spike protein, which has been formally designated B.1.617.2.1. According to media reports, the first sequence of this type was discovered in Europe in March 2021.

The National Chemical Laboratory (CSIR-NCL) is now studying the Ratnagiri and Sindhudurg specimens from Maharashtra to determine the presence of the Delta Plus variation. These two regions specifically have the highest proportion of active infections in India.

**Published in:**

[News18](#)



## IICT pact with Nosch Labs for affordable 2-DG drug

CSIR-IICT

28<sup>th</sup> June, 2021

City-based CSIR-Indian Institute of Chemical Technology (IICT) and Nosch Labs have entered into a non-exclusive agreement for transfer of the process knowhow for synthesis of anti-COVID-19 drug 2-DG (2-Deoxy-D-Glucose) earlier this month. Nosch Labs will commence manufacture of 2-DG drug after obtaining regulatory clearances from the Drugs Controller General of India (DCGI). The company intends to make the drug available at an affordable price.

“The institute has been instrumental in addressing numerous societal challenges and providing innovative solutions to Indian industries in the area of drugs and pharmaceuticals, agrochemicals, lipids, catalysis, functional materials, environmental, analytical, biological and engineering sciences. We have also undertaken clinical trials of various drugs repurposed to treat people infected with COVID-19,” said CSIR-IICT Director S. Chandrasekhar on Monday.

Nosch Labs Pvt. Ltd, also based here, has four manufacturing facilities in Telangana.

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[Thehindu](https://www.thehindu.com)

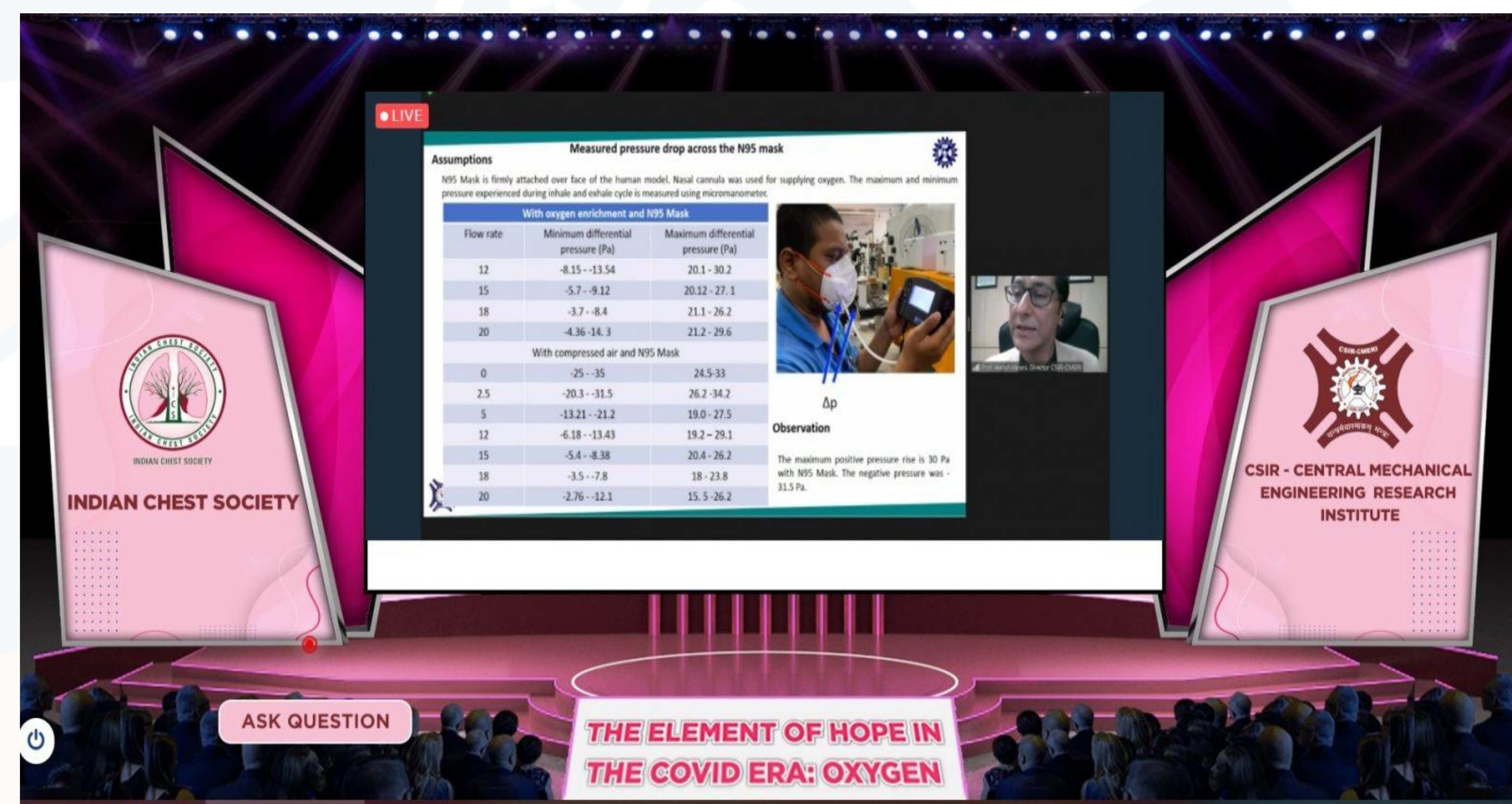


## Indian Chest Society Describes CSIR-CMERI Oxygen Enrichment Technology as 'Made in India, Made for India'

CSIR-CMERI

27<sup>th</sup> June, 2021

A Webinar on 'The Element of Hope in the COVID Era: Oxygen' was organised by the Indian Chest Society in association with CSIR-CMERI on 27th June 2021. Prof. Harish Hirani, Director, CSIR-CMERI, was the Chief Speaker for the Virtual Event. The Webinar was attended by Expert Panellists comprising of Dr. Deepak Talwar, Dr. Neeraj Gupta, Dr. Subhakar Kandi and Dr.



Dhrubajyoti Roy, all of whom happen to be eminent Pulmonologists and senior members of the Indian Chest Society. Dr. D. Behera, moderated the entire Virtual Panel Discussion, on behalf of the Indian Chest Society.

**Prof. Harish Hirani, Director, CSIR-CMERI**, in his Chief Speaker address shared that the Human Body rejects a substantial portion of Oxygen during the process of Exhaling. During High Flow Oxygen Therapy the Exhaled Oxygen can be trapped which in turn will decrease the Oxygen Load to a great extent. The CSIR-CMERI Oxygen Enrichment Unit (OEU) encompasses the functionality and goes beyond that of an Oxygen Concentrator. Since, the MSMEs are the pillar of the Indian Economy, CSIR-CMERI has organised a series of Virtual Awareness Exercises to bring them into the fold. As part of this initiative the technology has already been handed over to a number of MSMEs across India, who in turn will help in diffusion of the Technology. The Licensees has also very innovatively upgraded the aesthetics and ergonomics of the Technology.



CSIR-CMERI is working upon an Advanced Oxygen Mask technology which will provide protection against this Transmission of Viral Load. It has separate Supply and Exhaled Air passage. The Exhaled Air Passage/Channel is equipped with CO<sub>2</sub> Scrubber and BV Filter. These innovative applications are a step towards the possibility of Recycling Oxygen from the Exhaled Air. Such Technologies are also ideal for Isolation Wards/Quarantine Zones, where there is an Air Recirculation Environment.

An Advanced OEU for Oxygenated Hospital Beds in Rural Areas is also being worked upon which will have independent Flow Rate and FiO<sub>2</sub> controls. CSIR-CMERI is also working towards the development of 50 LPM and 100 LPM Hospital Model Oxygen Enrichment Technologies. Another Hybrid System Configuration for existing Hospitals will be able to function along with Oxygen Cylinders and Oxygen Lines of the Hospitals through an in-built Intelligent Controller System to complement Cylinder Stocked Oxygen with Enriched Oxygen. These advancements will facilitate the Decentralised usage of the Technology for 5-20 patients. When compared with Centralised Oxygen Generation Technologies available in the Market, the cost of the CSIR-CMERI Oxygen Technology lesser than 50%.

**Dr. Deepak Talwar, Specialist Pulmonologist** and Member of the Governing Body of the Chest Society who presented his discussion over various indication of Oxygen Therapy and shared that the idea of Prof. Hirani is brilliant for **'Make in India, Make for India'**. He also discussed on pneumonia-related hypoxia and the existing and chronic respiratory issues. He also shared that the studies show that in 85% of the cases the patients do not require Oxygen and in moderate to severe cases only the Oxygen therapy is needed to maintain the saturation level of 90. He also shared that the proper saturation level is 92-96% and above 96 % level may be also harmful.

Dr. Neeraj Gupta, Senior Chest Specialist Physician and Member, Governing Body of the Chest Society found the lecture of Prof. Hirani to be very encouraging. He also queried for comparison between PSA Plants and CSIR-CMERI developed OEU and the possible number



of patients to be catered with the Institute developed device. He later shared his ideas on different delivery methods of Oxygen at Low Flow and High Flow rates. Talking over advantages and disadvantages of different methods. Dr. Gupta said that the Nasal Cannula though is a comfortable method, it may cause dryness of nose and throat to the patient too.

**Dr. Subhakar Kandi, Senior Chest Specialist Physician** and Member, Governing Body of the Chest Society said the CSIR-CMERI developed indigenous device is the need of the hour. He lauded Prof. Hirani for the innovative device which may be customized depending upon the requirement and needs of the patients which may be very beneficial for the patients. Dr. Kandi later spoke on the mechanism of Hypoxia and various types of Masks used for the Oxygen Therapy. He also pointed out that liquid oxygen which have a purity of 99.5% may be utilised for patients in ICUs whereas the devices such as that developed by CSIR-CMERI may be utilised for patients under non-critical conditions as well as during the post-hospitalization care at home.

**Dr. D. J. Roy, Senior Chest Specialist Physician and Member,** Governing Body of the Chest Society discussed over the sources of Medical Oxygen. He welcomed the idea and presentation of Prof. Hirani on the Oxygen Enrichment System and said that he described the topic and the technology very correctly. Dr. Roy talked on the different sources of Oxygen in hospitals like pressurised Oxygen Cylinders, Liquid Oxygen, Concentrators etc. He also mentioned about some of the disadvantages of Oxygen Concentrators.

**Dr. D. Behera, Specialist Pulmonologist and President,** Indian Chest Society while moderating the discussion talked on the history and discovery of Oxygen by Joseph Priestley and said that its importance has been recognized by everybody in the pandemic. He also applauded Prof. Hirani and CSIR-CMERI for dissemination of awareness about the Oxygen Enrichment Technology and enquired about the cost aspects of the different Oxygen Enrichment technologies developed by CSIR-CMERI. Dr. Behera said that they are the end users and stressed upon the need for educating the society particularly the nursing staff about



the innovations and technology diffusions. For this, he wished to arrange similar awareness programmes for the benefits of the nursing staffs and the MSME sectors.

A detailed Panel Discussion ensued among the above experts on the various Aspects of Oxygen Technologies in the Nation.

**Published in:**

[Smestreet](https://www.smestreet.com)



## CSIR-developed BGR-34 effective in post-Covid high sugar levels: Experts

CSIR-CIMAP, NBRI

27<sup>th</sup> June, 2021

Dysfunction of glucose metabolism resulting in hyperglycaemia, a high blood sugar level, has been found in 14.4 per cent of patients who survived coronavirus, according to a global study published in the Diabetes, Obesity and Metabolism Journal.

With India's total caseload rose to 3,02,33,183 and achieving the third highest vaccination number, after China and the US, the challenge for health authorities now is to counter the onset of diabetes in post-Covid patients.

They say the fight against hyperglycaemia can be countered with ayurvedic formulations like CSIR-developed BGR-34. The formulation is based on natural bioactive compounds with Dipeptidyl-peptidase-4 (DPP-4) inhibitory effects to manage blood glucose levels.

Quoting a recent study in the Elsevier journal, they said it has shown DPP-4 inhibitors to be most safe to tackle post-Covid hyperglycaemia. The researchers who conducted the study said every patient admitted to a Covid care facility should be investigated for hyperglycaemia on the day of admission itself.

What is BGR-34 all about? BGR-34 is an ayurvedic-derived product for the management of diabetes. It includes natural bioactive compounds of herbal plant Daruharidra with DPP-4 inhibitory effect.

It has been developed by two labs of the Council of Scientific and Industrial Research (CSIR) -- the National Botanical Research Institute (NBRI) and Central Institute for Medicinal and Aromatic Plants (CIMAP). The post-Covid hyperglycaemia has symptoms like abdominal pain, nausea and vomiting and shortness of breath.



The condition is caused by the virus by damaging pancreatic beta cells leading to insufficient insulin production in the body. The increasing number of this condition among post-Covid patients is not good for India, a home to one in six people with diabetes in the world.

According to a research published in the Journal of Drug Research, the primary source of DPP-4 inhibitor is the herbal plant Daruharidra.

A.K.S. Rawat, a scientist with the Lucknow-based NBRI, which developed BGR-34, said a key ingredient of the ayurvedic formulation is Daruharidra.

Besides Daruharidra, BGR-34 has other herbal elements also that can keep hyperglycaemia in check. Gymnemic acid sourced from Gudmaar medicinal plant and Trigonoside IB found in fenugreek that control hyperglycaemia are present in BGR-34, AIMIL Pharmaceuticals executive director Sanchit Sharma told IANS.

The company produces the CSIR-developed BGR-34 ayurvedic formulation. Giloy, Vijaysaar and Majeeth, all known for their anti-diabetic properties, are also present in BGR-34, said Rawat.

He said the power of ayurveda has once again been established by several studies that indicate the efficacy of bioactive compounds produced by plants in treatment of post-Covid new onset diabetes.

**Published in:**

[Webindia123](http://Webindia123)



## **JSS AHER To Host Two-Day Natl. Webinar On 'Food Safety: Everyone's Business' From June 28**

CSIR-CFTRI

27<sup>th</sup> June, 2021

Mysore/Mysuru: The Department of Nutrition & Dietetics, Faculty of Life Sciences, JSS Academy of Higher Education & Research (JSS AHER), Mysuru, is organising a two-day National webinar and Infographic Competition on June 28 and 29 on the theme 'Food Safety: Everyone's Business' from 2.30 pm to 5.30 pm to commemorate World Food Safety Day-2021.

The two-day virtual programme includes two sessions each day addressed by international / national recognised Nutritionists, Academicians and Health professionals from reputed institutions and industries in the relevant field. Participants will be UG/PG students, research scholars, HCPs from different subject areas.

This webinar will focus on production and consumption of safe food which has immediate and long-term health benefits and connections between the health of people, environment and the economy. This event will also help in understanding the role of safe practices in agriculture, in food industries to ensure the food security, quality products.

The webinar will be inaugurated at 2.30 pm on Monday by Arun Singhal, IASCEO, FSSAI, MoH&FW. Dr. B. Suresh, Pro-Chancellor, JSS AHER, will deliver the keynote address followed by first session from Dr. K. Madhavan Nair, Chairperson – Scientific Panel Labelling & Claims/Advertisements, FSSAI, MoH&FW, Govt. of India & Scientist F (Retd.), NIN, Hyderabad; second session by Dr. K.A. Anu Appaiah, Head, Food Protection and Infestation Control & Sr. Principal Scientist (Retd.), Department Microbiology & Fermentation Technology, CSIR-CFTRI, Mysuru.

On Tuesday, the first session will be by Niraj Marathe, Co-Founder & CEO, Coolcrop Technologies Pvt. Ltd, Gujarat and second session by Dr. Chaitra Narayan, Founder –



Codagu Agritech & Shivam Distillations, Mysuru. For details contact Organising Secretaries Dr. Sudha Sairam, (9972005220) and A. Vinay (9945371583) or e-mail: [ndfls@jssuni.edu.in](mailto:ndfls@jssuni.edu.in)

### **Admissions for courses**

At the Department of Nutrition & Dietetics, JSS AHER will be offering M.Sc in Nutrition & Dietetics, M.Sc in Sports Nutrition & Management, PGD in Nutraceutical Technology, B.Sc course in Food, Nutrition & Dietetics and Doctor of Philosophy (Ph.D) programmes. Admissions are open now for the courses. For details, contact Dr. P. Vanitha Reddy – Coordinator (95904-81932), Dr. Shweatha – PG Course Coordinator (78290-39578) and Dr. B.V. Sushma – UG Course Coordinator (96631-68881).

**Published in:**

[Starofmysore](http://Starofmysore)



## Maharashtra ties up with Delhi institute for surveillance

CSIR-IGIB

27<sup>th</sup> June, 2021

PUNE: State health minister Rajesh Tope has said Maharashtra will seek assistance from CSIR-Institute of Genomics and Integrative Biology (CSIR-IGIB) in New Delhi to ramp up its genome sequencing capacity. He added that they will continue a collaboration with the institute for another three months to sequence more samples sent from the state.



Tope said, “We currently send 100 samples per district in a month. That number may be scaled up if there is a rise in cases reporting Delta-plus,” he told TOI on Saturday. Twenty-one samples from the state have tested positive for Delta-plus so far.

Director of CSIR-IGIB, Anurag Agarwal, told TOI that the tie-up with Maharashtra has yielded important genomic insights. “We remain committed to taking this partnership further. This is expected to go beyond sequencing and should be towards supporting the state in building genomics capacity at key medical institutions,” he said.

State task force member Shashank Joshi said having more facilities locally in the state will help. “We need to test more samples for genomic sequencing. And for this, we need more laboratories,” Joshi said, adding that besides sequencing, sero surveys and clinical data are key to tracking the Delta-plus variant

**Published in:**

[Timesofindia](https://www.timesofindia.com)



CSIR-NML

27<sup>th</sup> June, 2021

## एनएमएल फ्लैट्स एग्रिको में टीकाकरण अभियान का आयोजन



जमशेदपुर : झारखंड सरकार द्वारा संचालित कोविड वैक्सीनेशन मोबाइल वैन की सहायता से कोविड टीकाकरण अभियान के दूसरे चरण में राष्ट्रीय धातुकर्म प्रयोगशाला (एनएमएल) के 45 वर्ष से अधिक उम्र के कार्मिकों, पेंशनरों एवं उनके संबंधियों के लिए एनएमएल फ्लैट्स एग्रिको में 50 लोगों का सफलतापूर्वक टीकाकरण किया गया. इस टीकाकारण अभियान को सफलतापूर्वक आयोजित करने में ज्योति कुमार, वेद प्रकाश, परमार्थ सुमन, कृष्णा कुमार, सरोज कुमार, अभिषेक कुमार सिंह, सी. सुप्रमण्यम, डॉ. अरविंद सिंहा, डॉ. डी मिश्रा, डॉ.के. हांसदा, राजीव रंजन श्रीवास्तव तथा स्नेहाशीष त्रिपाठी का उल्लेखनीय योगदान रहा.

**Published in:**

Uditvani, Prabhat Khabar



## एनएमएल कालोनी में हरियाली वृक्षारोपण सप्ताह महोत्सव पर पौधारोपण

जमशेदपुर, 26 जून ( रिपोर्टर ): सीएसआईआर एनएमएल आवासी कालोनी एग्रिको व गोलमुरी में नगर राजभाषा कार्यान्वयन समिति की ओर से हरियाली वृक्षारोपण सप्ताह महोत्सव के तहत अलग-अलग प्रजाति के 250 फलदार पौधे लगाए गए. सीएसआईआर एनएमएल में नगर राजभाषा कार्यान्वयन समिति की ओर से अंतर्राष्ट्रीय योग दिवस पर 21 से 26 जून तक हरियाली वृक्षारोपण सप्ताह महोत्सव का आयोजन किया गया था. जिसके तहत एनएमएल में पौधारोपण किया गया. शनिवार को महोत्सव के समापन के दौरान एनएमएल आवासीय कालोनी एग्रिको व गोलमुरी में अलग-अलग प्रजाति के 250 फलदार पौधे लगाए गए. इस मौके पर एनएमएल के निदेशक



व नराकास अध्यक्ष डा. इन्द्रनील चट्टोराज, देवारती चट्टोराज, डा. अरविंद सिन्हा, डा. रघुवीर सिंह, अर्चना सिंह, डा. पलाश पोद्दार, डा. डी मिश्रा व उनकी पत्नी, परितोष दुबे, जे कोनार, कैप्टन राजेश लाल, रत्नाकर बेहरा, अनुज मोहन प्रधान, डा. के एल हांसदा, डा. पी पी पाल, राजीव रंजन श्रीवास्तव, उत्तम कुमार झा, भावना झा, ओम प्रकाश एवं श्रीमती सीमा

तथा नराकास के सदस्य सचिव डा. पुरुषोत्तम कमनीता कुमारी, डा. अंजनी साहू, किरण साहू, डा. वीणा कुमारी, सरोज कुमार, अभिषेक आदि मौजूद थे.

इस मौके पर डा. मनोज पाठक, अंग्रेजी विभागाध्यक्ष प्रो राजकुमारी घोष, प्रो शाहीन फातमा समेत देश के अलग-अलग कॉलेज व विश्वविद्यालय के छात्र व शोधार्थी व प्राध्यापक मौजूद थे.



CSIR-NML

27<sup>th</sup> June, 2021

## एनएमएल में 250 पौधे लगाये गये

**जमशेदपुर.** सीएसआइआर-एनएमएल में नगर राजभाषा



कार्यान्वयन समिति की ओर से शनिवार को आवासीय कॉलोनी एड्रिको व गोल्डपुरी में हरियाली वृक्षारोपण सप्ताह महोत्सव के तहत 250 से अधिक पौधे

लगाये गये. 21 जून से इस अभियान की शुरुआत हुई थी. इस मौके पर जमशेदपुर के निदेशक सह नराकास अध्यक्ष डॉ इंद्रनील चट्टोपाय, देवास्ती चट्टोपाय, डॉ अरविंद सिन्हा, डॉ रघुवीर सिंह, अर्चना सिंह, डॉ फनारा पोद्दार, डॉ डी मिश्रा, परितोष दुबे, जे कोनार, कैप्टन राजेश लाल, रत्नाकर बेहेरा, अनुज मोहन प्रधान, डॉ केएल हांसदा, डॉ पीपी पाल, राजीव रंजन श्रीवास्तव, उत्तम कुमार झा, भावना झा, ओम प्रकाश, सीमा, डॉ पुरुषोत्तम कुमार, सुनीता कुमारी, डॉ अंजनी साहू, किरण साहू, डॉ वीणा कुमारी, ज्योति कुमार, परमार्थ सुमन, सरोज कुमार, अभिषेक, वेद प्रकाश, आमोद कुमार, रजनीकांत चौधरी, पंकज कुमार, रामाश्रय राम, एचएस तिर्की, पंपा देवी, रोहित आदि मौजूद थे.

**Published in:**

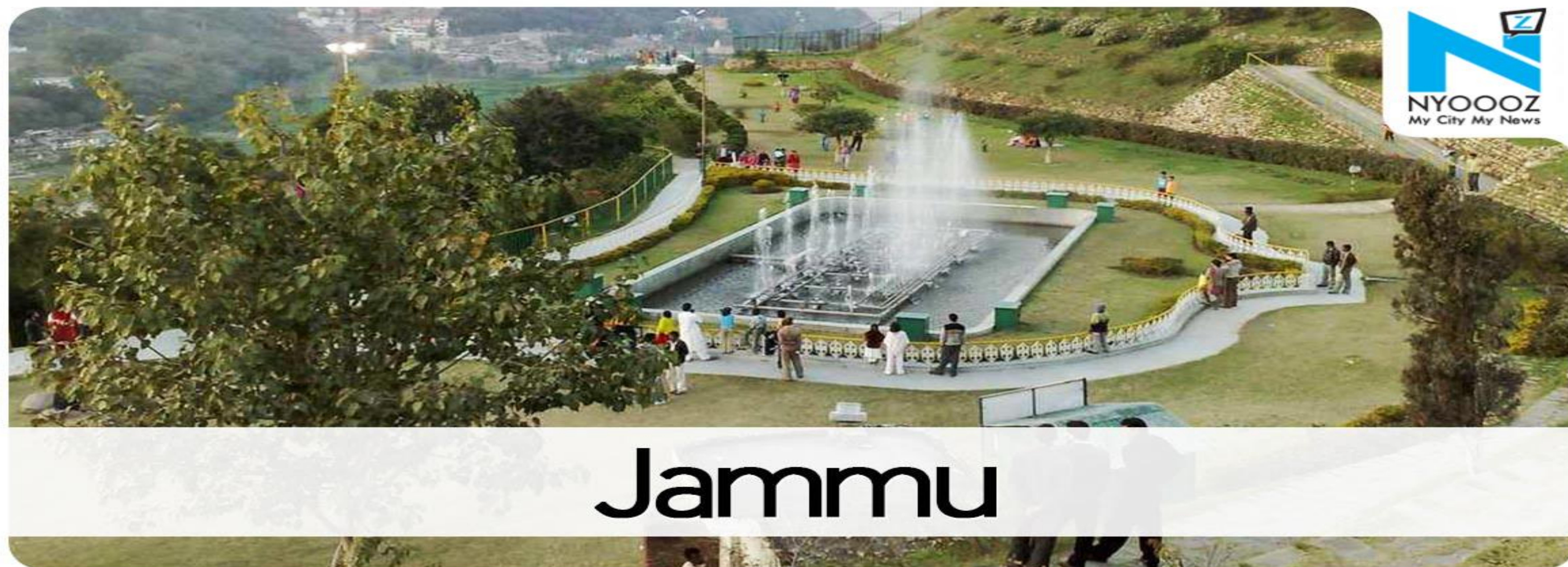
Prabhat Khabar



## Weeklong workshop on IPR commences

CSIR-IMMT

26<sup>th</sup> June, 2021



Excelsior Correspondent JAMMU June 26: Weeklong virtual national workshop on Intellectual Property Rights (IPR) has commenced at Government PG College Rajouri. The workshop is being organised by IQAC and Science Club of the College in collaboration with CSIR-Institute of Minerals & Materials Technology (IMMT) Bhubaneswar Odisha. He said that knowledge of IPR is a must for every researcher and faculty member. Prof. Suddhasatwa Basu highlighted the need of IPR awareness various innovation and incubation schemes of CSIR and encouraged the budding youth to participate in these scientific programmes. The experts drawn from industry and CSIR institutes to address the workshop include Amit Kumar Patel MD PA Tectual IP Services; Dr T. Pavan Kumar Senior Scientist CSIR IMMT; Dr Parash Kumar Dave Founder IP Moment; Dr Kapil Arya Senior Scientist CSIR IPU and others.

**Published in:**

[Nyoooz](https://nyoooz.com)



# नराकास की ओर से एनएमएल और पावर ग्रिड में किया गया वृक्षारोपण

सप्ताह भर चलने वाले इस वृक्षारोपण समारोह का समापन कल होगा

जमशेदपुर : राष्ट्रीय धातुकर्म प्रयोगशाला (एनएमएल) जमशेदपुर की ओर से चल रहे वृक्षारोपण सप्ताह समारोह के तहत मैग्नीशियम प्लांट तथा पायलट प्लांट में वृक्षारोपण महोत्सव कार्यक्रम किया गया।

26 जून तक चलने वाले इस समारोह को नगर राजभाषा कार्यान्वयन समिति (नराकास) जमशेदपुर के बैनर तले किया जा रहा है। एनएमएल निदेशक सह नराकास अध्यक्ष डॉ. इन्द्रनील चट्टोराज, सीएसआईआर-एनएमएल के अभियांत्रिकी प्रमुख पी. के. धवन, सीएसआईआर-एनएमएल के मैग्नीशियम प्लांट के प्रमुख डॉ. संजय कुमार, सीएसआईआर-एनएमएल के एएसी सह एमएनपी एवं पायलट प्लांट की प्रमुख डॉ. संचिता



चक्रवर्ती, एमएनपी प्रभाग के वैज्ञानिक डॉ. के.डी. मेहता, डॉ. एम.के. मोहंता, डॉ. शोभना दे, डॉ. आर.के. रथ, डॉ. ए. विद्याधर, श्रीमती सुनति मोहंती तथा नराकास के सदस्य सचिव डॉ. पुरुषोत्तम कुमार एवं कार्मिकों द्वारा 130 से अधिक पौधा लगाकर वृक्षारोपण महोत्सव मनाया गया। इसी कड़ी में गुरुवार को पावर ग्रिड कॉरपोरेशन

ऑफ इंडिया रामचंद्रपुर जमशेदपुर और सीआईएसफ जादूगोड़ा के सहयोग से हरियाली वृक्षारोपण महोत्सव का आयोजन किया गया। पावर ग्रिड कॉरपोरेशन ऑफ इंडिया के प्रमुख उप महाप्रबंधक श्रीमान राजेश कुमार सैनी एवं श्रीमती सीमा सैनी, केन्द्रीय औद्योगिक सुरक्षा बल (सी.आई.एस.एफ.), यू.सी. आई.एल. इकाई, जादूगोड़ा के

प्रमुख, वरिष्ठ कमांडेंट, हरिओम गांधी एवं श्रीमती रूपाली गांधी तथा उप कमांडेंट अदेश कुमार सैनी, पावर ग्रिड के मुख्य प्रबंधक कुमार आदर्श तथा श्रीमती सुरुचि मनस्विता द्वारा पौधा लगाकर कार्यक्रम का उद्घाटन किया गया। इस अवसर पर पावर ग्रिड परिसर में एक सौ से अधिक फलदार पौधे लगाए गए।





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