





# **NEWS BULLETIN 6 TO 10 JULY 2020**











# Covid-19: CSIO products can help dentists reopen, make outing safer



10<sup>th</sup> July, 2020 control needs because oral surgery procedures use



toothache in the times of Covid-19. A local The prototype of this canopy for the dentist's chair invention makes dental procedures safe was tested as useful for preventing even Covid-19. coronavirus. from masks and face shields restrict the transfer of It's called aerosol restricting canopy or infectious aerosol from patient to doctor during ARC. Central Scientific Instruments Organisation (CSIO) in the city has to the atmosphere around the patient." CSIO senior combined with Oral Health Sciences Centre scientist Vinod Karar said: "The ARC shields (ORHC) of the Post Graduate Institute of dentists and dental assistants from the patient's Medical Education and Research airway. The canopy covers the required area over (PGIMER) to make it. They have transferred the technology to a Chandigarh company. Asked why this canopy was Safety-ARC can be fixed on a movable platform of required, project's principal investigator direction. The system's sliding windows covered Sanjeev Verma said: "Personal protective equipment (PPE) is used in emergency care infection and dependency on sterilization. but dental settings have additional infection

drills and ultrasonic devices that cause the release of aerosol (suspended fine droplets), which is a cause of infection in the dental clinic." Dental aerosols, which spread in 30-foot range, are among the most dangerous contamination carriers in the dental clinic. Not only is someone at the risk of inhaling infectious particles but also suspended particles settle on surfaces after a while and are often breathed in again. Dental procedures can Good news for dentists and those with increase the bacteria levels to almost 20 times. CSIR-CSIO director Sanjay Kumar said: "Face procedures but do not stop the spread of aerosols the patient, while allowing the doctor a free movement of arms to perform all the tasks." The adjustable height and moved in the desired with disposable sheets reduce patient-to-patient



![](_page_2_Picture_1.jpeg)

The optional feature of aerosol suction from the canopy used the dental chair's suction pump. The industry partner has manufactured the prototype and become ready for mass production. The CSIO has also developed a technology for precision manufacturing of safety goggles for healthcare professionals who treat high viral load patients of Covid-19. Project team leader Karar said: "The conjunctiva membrane located inside the eyelid for lubricating the eyeball is the only exposed mucous membrane of the human body. When we open the eyes, this membrane is also exposed, making it an important but often overlooked entrance for viruses. The protective goggles are designed ergonomically to cover the eye area fully and seal it efficiently. It protects health professionals from aerosols and other hazardous suspended particles." How protective are these for the health workers and general public? These safety goggles have a flexible frame for tighter sealing with the face skin, proper covering of the eyes and the surrounding areas, and even room for prescription glasses. The polycarbonate lens is sturdy, while an adjustable elastic strap makes it easy to wear. Project's senior scientist

Neha Khatri said: "The goggles meet the ANSI/SEA Z87.1-2010 standards for use in varied environments without any fogging or fatigue."

![](_page_2_Figure_4.jpeg)

![](_page_3_Picture_0.jpeg)

![](_page_3_Picture_1.jpeg)

# India Positive: CSIR-CMERI Develops Low Cost Ventilators For COVID-19 Patients

![](_page_3_Picture_3.jpeg)

![](_page_3_Picture_4.jpeg)

The CSIR-Central Mechanical Engineering Research Institute (CMERI), Durgapur, has developed a mechanical ventilator with indigenous technology which can be used for the treatment of COVID-19 patients and those experiencing breathing difficulty.

Portability and cost-effectiveness are the two most important features of the product, a senior official of the institute said. The mechanical ventilator developed by the institute will cost around Rs 90,000-1,00,000.

![](_page_3_Picture_7.jpeg)

![](_page_4_Picture_0.jpeg)

![](_page_4_Picture_1.jpeg)

# 48 acres allotted to CSIR-CCMB research centre

![](_page_4_Picture_3.jpeg)

![](_page_4_Picture_4.jpeg)

Orders issued delineating the land at Bommaipalli of Bhongir mandal CSIR-Centre for Cellular and Molecular Biology (CCMB)'s long-awaited dream of having its own dedicated innovation centre to expand its research activities is on the verge of coming true with the government issuing orders delineating about 48 acres of land in Bommaipalli village of Bhongir mandal a few days ago. More than a decade ago, the then government had assured to allocate more than 100 acres for setting up a Council of Scientific & Industrial Research (CSIR) Innovation Centre. The land right opposite the upcoming All India Institute of Medical Sciences (AIIMS) at Bibinagar, when it was Nizam's Institute of Medical Sciences (NIMS) campus, was sought but before the allotment happened it got into litigation when a private party claimed ownership. It is not yet known if the fresh land allotment is nearby or if the earlier claim of about 40 acres being allotted to the premier lab is still valid. The request for exemption from application of the provisions of the Land Acquisition Act, however, was accepted by the government in the orders issued last week with the Collector of Yadadri-Bhuvanagiri district directed to take necessary action. CCMB main campus is beside CSIR-Indian Institute of Chemical Technology (IICT) where it started as a biochemistry division before becoming an independent lab in 1987. It has been in the forefront of combating COVID-19 with testing capability, validating kits, genome sequencing etc. Its first annexe is Laboratory for Conservation of Endangered Species (LaCONES) at Attapur and established in 2000 to study and develop advanced molecular biology tools for wildlife conservation. It also houses the National Genetic Resource Bank Facility to collect and store genetic material from deceased animals in zoos. A second annexe, Medical Biotechnology Complex, was established at Uppal in 2015 where about 20 start-ups are engaged in different sectors of life sciences. It has the Common Research and Technology Development Hub (CRTDH), Atal Incubation Centre-CCMB (AIC-CCMB) and the Meity Startup Hub. Whether all these will be integrated into a single campus when the entire land is allocated is not clear for now.

![](_page_5_Picture_0.jpeg)

![](_page_5_Picture_1.jpeg)

"We are working on the project slated to come up on 120 acres. We are having discussions with the government and will be able to give a better picture in a couple of weeks," said CCMB Director Rakesh Mishra, when contacted.

![](_page_5_Picture_3.jpeg)

![](_page_6_Picture_0.jpeg)

![](_page_6_Picture_1.jpeg)

10<sup>th</sup> July, 2020

# Masks should be compulsory for all: CSIR DG after WHO confirms 'emerging evidence' of airborne COVID-19 spread

![](_page_6_Picture_3.jpeg)

![](_page_6_Picture_4.jpeg)

signed by 239 scientists, urging the agency to be more forthcoming about the likelihood that people can catch the virus from air droplets. While explaining the difference between airborne and non-airborne, Dr Mande said that there is 'emerging evidence' in the world that when we speak, we emit aerosols - less than five microns in size. Since they are small, they remain suspended in the air.

transmission of the deadly virus, following a letter

As the World Health Organisation (WHO) confirms "emerging evidence" of airborne "If they remain suspended in air, then in a crowded transmission of COVID-19, CSIR (Council place even if one is infected, there is a potential risk that this individual will pass it on to many others. of Scientific and Industrial Research) In closed rooms, where ventilation is not very good, Director-General Dr Shekhar Mande on suspended particles in the air are also a potential Thursday said that wearing masks has risk of infection," he said. Mande further said that never been more important. "In my opinion, social distancing, along with wearing masks, still masks should be compulsory for everyone remains to be the biggest tools of precautions to wear, including in the rooms. If you are against coronavirus. in the office it is important that the office is well ventilated. If you are in closed spaces, Earlier, WHO Technical Lead for Infection ventilate them, and if you are in open Prevention and Control Dr Benedetta Alleganzi on spaces, make sure you are wearing a mask Wednesday had said, "We acknowledge that there is always and maintain social distance," Dr emerging evidence in this field, as in all other fields regarding the COVID-19 and pandemic and Mande said. As per a CNN report on therefore, we believe that we have to be open to this Wednesday, WHO confirmed that there is evidence and understand its implications regarding an 'emerging evidence' of airborne

![](_page_7_Picture_0.jpeg)

![](_page_7_Picture_1.jpeg)

the modes of transmission and also regarding the precautions that need to be taken." However, Alleganzi had added that more research needs to be done on the nature of COVID-19 transmission.

![](_page_7_Picture_3.jpeg)

![](_page_8_Picture_0.jpeg)

![](_page_8_Picture_1.jpeg)

# **48 acres allotted to CSIR-CCMB research centre**

![](_page_8_Picture_3.jpeg)

![](_page_8_Picture_4.jpeg)

Orders issued delineating the land at Bommaipalli of Bhongir mandal CSIR-Centre for Cellular and Molecular Biology (CCMB)'s long-awaited dream of having its own dedicated innovation centre to expand its research activities is on the verge of coming true with the government issuing orders delineating about 48 acres of land in Bommaipalli village of Bhongir mandal a few days ago. More than a decade ago, the then government had assured to allocate more than 100 acres for setting up a Council of Scientific & Industrial Research (CSIR) Innovation Centre. The land right opposite the upcoming All India Institute of Medical Sciences (AIIMS) at Bibinagar, when it was Nizam's Institute of Medical Sciences (NIMS) campus, was sought but before the allotment happened it got into litigation when a private party claimed ownership. It is not yet known if the fresh land allotment is nearby or if the earlier claim of about 40 acres being allotted to the premier lab is still valid. The request for exemption from application of the provisions of the Land Acquisition Act, however, was accepted by the government in the orders issued last week with the Collector of Yadadri-Bhuvanagiri district directed to take necessary action. CCMB main campus is beside CSIR-Indian Institute of Chemical Technology (IICT) where it started as a biochemistry division before becoming an independent lab in 1987. It has been in the forefront of combating COVID-19 with testing capability, validating kits, genome sequencing etc. Its first annexe is Laboratory for Conservation of Endangered Species (LaCONES) at Attapur and established in 2000 to study and develop advanced molecular biology tools for wildlife conservation. It also houses the National Genetic Resource Bank Facility to collect and store genetic material from deceased animals in zoos. A second annexe, Medical Biotechnology Complex, was established at Uppal in 2015 where about 20 start-ups are engaged in different sectors of life sciences. It has the Common Research and Technology Development Hub (CRTDH), Atal Incubation Centre-CCMB (AIC-CCMB) and the Meity Startup Hub. Whether all these will be integrated into a single campus when the entire land is allocated is not clear for now.

![](_page_9_Picture_0.jpeg)

![](_page_9_Picture_1.jpeg)

"We are working on the project slated to come up on 120 acres. We are having discussions with the government and will be able to give a better picture in a couple of weeks," said CCMB Director Rakesh Mishra, when contacted.

![](_page_9_Picture_3.jpeg)

![](_page_10_Picture_0.jpeg)

![](_page_10_Picture_1.jpeg)

9<sup>th</sup> July, 2020

# Is Covid-19 airborne? Indian experts react to latest finding, say there is no need to panic

![](_page_10_Picture_3.jpeg)

![](_page_10_Picture_4.jpeg)

the air for longer than bigger droplet which settles down in a few minutes," director of the CSIR-CCMB, Rakesh Mishra, told news agency PTI. Mishra calls for people to continue to take the same precautions and avoid close contact with people and large gatherings. The scientist said social distancing should be maintained at all cost and people must avoid rooms where multiple people are present, particularly those lacking aeration such as AC rooms. He added that very little is known about the virus and it would be too early to say that enough had been known about it. Over 230 scientists from 32 nations have written to the WHO, saying there is evidence that coronavirus is airborne and even smaller particles can infect people, a report in the New York Times stated. The global health body has long maintained that Covid-19 primarily spreads through coughs and sneezes and is not airborne. The virus has infected over 11 million across the globe while more than 5 lakh people have lost their lives to the deadly contagion worldwide.

micron which will mean that it will be hanging in

A state of panic has overtaken people after the World Health Organization, earlier this week, was approached with a group of scientists with their finding, supporting the possibility of Covid-19 virus to be airborne. However, experts at India's CSIR-Centre for Cellular and Molecular Biology (CCMB) say there is no need to panic. As per an expert, the latest finding could mean that the pathogen can be 'at least temporarily' in the air and does not mean it is flying all over and will infect everyone. "Those are good studies. Based on that, what is being communicated to WHO is that the virus can be at least temporarily airborne, which means it can travel in droplets of smaller size less than five

Published in: Hindustn Times

![](_page_11_Picture_0.jpeg)

![](_page_11_Picture_1.jpeg)

# IIT Alumni Council ropes in CSIR-IGIB for COVID-19 patient data analysis

![](_page_11_Picture_3.jpeg)

![](_page_11_Picture_4.jpeg)

The IIT Alumni Council has signed an agreement with the CSIR Institute of Genomics and Integrative Biology (CSIR-IGIB) to jointly conduct research on COVID-19 and patient data analysis. It may be noted that the council is setting up the world's largest molecular diagnostic lab 'MegaLab Mumbai'. According to a statement issued yesterday, the council handed over imaging data of over 8,500 patients, who were admitted at the COVID Care Facility at Worli's National Sports Club of India. IIT Alumni Council President Ravi Sharma has said that this partnership will not only create a world-leading testing and treatment ecosystem but also establish global data leadership. Late May, the Council had announced the launch of the world's largest virology lab testing centre with a capacity of conducting one crore tests. The

first phase, with a capacity to carry out 10 lakh tests, will be ready by the end of this month.

The IIT Alumni Council is the largest body of alumni, students and faculty from all the 23 Indian Institutes of Technology and partnering Technical Institutes of Excellence and was formed last year to carry out projects of social importance.

![](_page_11_Figure_8.jpeg)

![](_page_12_Picture_0.jpeg)

![](_page_12_Picture_1.jpeg)

# **Coronavirus** | Hyderabad-based pharma firm ties up with CSIR to take up COVID-related drug trials

CSIR-IICT,IIIM

![](_page_12_Picture_4.jpeg)

screening and treatment. The design principle of the study is to rationally combine and repurpose antivirals — viral-entry and replication inhibitors — and Host-Directed Therapies (HDTs) addressing the diseasespread and pathology simultaneously and to determine safety and efficacy of the three combination drugs — Favipiravir+Colchicine, mifenovir+Colchicine and Nafamostat+5-**CSIR said that the unique combinatorial** aminolevulinic acid — and a control arm with strategy (antivirals and HDTs) with the standard of care in COVID-19 patients repurposed drugs having CSIR Director-General Dr. Shekhar C. Mande complementary, additive and synergistic said that this unique combinatorial strategy role, has been adopted to increase (antivirals and HDTs) with repurposed drugs options for COVID-19 treatment. having complementary, additive and synergistic Hyderabad-based Laxai Life Sciences role, has been adopted to increase therapeutic Private Limited, in association with the options for COVID-19 treatment and help patients recover faster. The partner CSIR Council of Scientific & Industrial Research institutes in this important clinical trial are the (CSIR), has sought regulatory approval to undertake four-arm randomized controlled CSIR-Indian Institute of Chemical Technology phase III clinical trial on July 8. The clinical (IICT), Hyderabad and CSIR-Indian Institute trial named MUCOVIN is to be carried out of Integrative Medicine (IIIM), Jammu. "The in partnership with Medanta Medicity in study aims to target viral proteins essential for Delhi and will include a total of 300 its replication as well as host factors that play patients in four groups of 75. The trials crucial role in the viral life cycle and contribute will be held over 17 to 21 days, including to the cytokine storm", said Laxai Life Sciences

8<sup>th</sup> July, 2020

![](_page_13_Picture_0.jpeg)

![](_page_13_Picture_1.jpeg)

CEO Dr. Ram S. Upadhayaya. "The co-sponsorship of this study by Laxai Life Sciences highlights the company's commitment in bringing life-saving therapies in the service of humanity," said MD Vamsi Maddipatla. Specifically, the organisations decided to work for synthesis of drugs being used in the fight against coronavirus with focus on Umifenovir, Remdesivir and a key intermediate of Hydroxy Chloroquine (HCQ). The 'MUCOVIN' clinical trials, if successful, will provide more options for treatment of COVID-19, a CSIR release said.

![](_page_13_Picture_3.jpeg)

![](_page_14_Picture_0.jpeg)

![](_page_14_Picture_1.jpeg)

# Without safety protocol, factories turn tinderboxes

CSIR-CLRI

8<sup>th</sup> July, 2020 safety norms at a time when many factories

![](_page_14_Picture_5.jpeg)

and industrial units are restarting after prolonged closure. Experts said companies need to adopt and follow stringent pre-start protocols and carry out a process hazard analysis to identify vulnerable areas as a result of the lockdown. In addition, the government should give plants time to wind down safely and allow manpower for essential upkeep Violation of maintenance protocols, during the shutdown. "Shutdown and start-up shortage of staff, outdated technology and due to the present lockdown cannot be a reason overworked units are among the barrage of for accidents, there must have been some shortcomings cited as reasons behind the negligence in implementing the pre-start up two deadly boiler blasts that took place procedures. Many of our enforcement within a month at the thermal power plant organisations have issued procedures for at Neyveli. On May 7, a styrene vapour leak restarting the plants post lockdown. These are in a chemical factory at Visakhapatnam general SOPs. I urge industry associations to killed 12 people at a time when industries ponder over the pre-start up safety were gradually resuming operations after review/protocols required for their cluster to avoid accidents," said M Surianarayanan, senior the lockdown. Citing the frequent accidents principal scientist and head of cell for at industrial plants, experts say it's high time the authorities prioritised safety industrial safety and risk analysis, CSIR-CLRI. standards, procedures and practices. The The present closure should not be a new accidents have turned the spotlight on the activity as industries routinely conduct importance of adhering to industry specific shutdown and startups for maintenance. "The standard operating procedures (SOPs) and difference between the annual turn around and Produced by Science Communication and Dissemination Directorate, (SCDD), CSIR, Anusandhan Bhawan, New Delhi

![](_page_15_Picture_0.jpeg)

![](_page_15_Figure_1.jpeg)

# Air/ fuel level required for complete combustion

Condition operation of explosion vents, valves, interlocks and fan drives

Beware dust explosions in confined spaces due to carry over of heat and coal dusts Coal should be added slowly when there is no fire Furnace should be purged before fining > Thermal power plants should keep pace with latest technologies and periodically dismantle units that have exceeded shelf-life

Adequate fire protection necessary to quench any fire at the initial stage itself. Emergency drills should be conducted regularly

Warning systems should be provided to intimate process deviations, which should be reviewed

Periodical operational hazard assessment by well-known techniques such as HAZOP

Mechanical integrity of equipment and

pipelines to be tested

CHEMICAL INDUSTRIES
Daily safety inspection to identify hazardous situations should be noted and suitable corrective actions taken

Required information, instructions and training for employees

Suitable software tools should be used to improve safety

Chemical industries must have contact with hospitals and know the procedure to protect people around the facility in case of a leak. For example, a wet handkerchief could protect from toxic inhalations

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

the shutdown due to lockdown is that now only essential maintenance work was being carried out instead of the normal maintenance work. Hence, a thorough safety review is required before starting the plants after the lock down," said Perumal Manoharan, president, Safety Engineers Association. "Governments also should give sufficient time to shut and restart plants in a safe manner. Sufficient manpower should be allowed to work during the lockdown period to ensure upkeep of the machinery, which is more important for process industries and industries where operations are carried out continuously. A sudden lockdown, giving minimum time to stop operations might have been one of the reasons behind some of the recent accidents," he said. According to National Crime Records Bureau data, 582 factory and machine accidents were reported in the country in 2017, it rose to 696 the following year, which accounted for about 0.1% and 0.2% of the total accidental deaths. Tamil Nadu has nearly 165 factories under major accident hazard categories like LPG, fertilizer, petrochemical, distilleries and breweries, iron and steel, military ammunition and industrial explosive units. As for NLC, experts said the immediate requirement is a thirdparty safety audit to identify vulnerable areas and measures required for safe daily operations. The lack of upgradation of decades old industrial units — NLC plants have been in operation since the 1960s — lead to chances for failures and accidents. However, experts say major accidents mostly follow after several indicators. "There must be a combination of failures that culminates into fires and explosions. Failure to recognise such warnings and bypassing them is the main reason. When there is a change in management, the change should be as per the original equipment manufacturer, just because one spare is not available, we should not hurry to replace it with a locally manufactured one. This will increase the accident vulnerability," said Surianarayanan. Human factor plays a major role in most industrial accidents. Professor R Saravanan, chemical engineering department, Annamalai University, who has conducted research on the contribution of human error behind accidents, said 78% of the industrial accidents are due to human factors. Around 12% are due to unsafe conditions prevailing in the work area and 10% due to natural calamity. "They could be psychological factors that may be due to issues at the workplace or at home. They could also be taking shortcuts. All these could contribute to accidents," he said.

![](_page_17_Picture_0.jpeg)

![](_page_17_Picture_1.jpeg)

One of the ways to prevent accidents due to human error, experts said, is adopting artificial intelligence and Internet of Things to monitor, collect and analyse data. "These digital systems alert on deviations that may happen, like rupture. Right now, they are monitored through control rooms. But in the future, we could bring them to our smartphones," said

![](_page_17_Picture_3.jpeg)

![](_page_17_Picture_4.jpeg)

![](_page_17_Figure_5.jpeg)

![](_page_18_Picture_0.jpeg)

![](_page_18_Picture_1.jpeg)

# **MUCOVIN: CSIR seeks nod for clinical trial to check efficacy of** three-drug-combination on COVID-19 patients

8<sup>th</sup> July, 2020 The trials will be conducted for 17 to 21 days

![](_page_18_Picture_4.jpeg)

![](_page_18_Picture_5.jpeg)

including screening and treatment, the statement said. Shekhar Mande, director general of the CSIR, said each group of patients will be administered one set of drugs. This unique combinatorial strategy (antivirals and HDTs) with repurposed drugs having complementary, additive and synergistic roles, has been adopted to increase therapeutic The Council of Scientific & Industrial options for COVID-19 treatment and help Research (CSIR), in collaboration with recover patients faster, he said. On CSIR's part, Laxai Life Sciences Pvt Ltd, Hyderabad, has its two institutes — Indian Institute of sought regulatory approval to undertake Chemical Technology, Hyderabad and Indian controlled phase III clinical trial using a Institute of Integrative Medicine, Jammu combination of three different drugs to are part of the exercise. Ram S Upadhayaya, treat COVID-19 patients, a statement said CEO, Laxai Life Sciences said the study aims to on Tuesday. The purpose behind the clinical target viral proteins essential for its replication trial is to rationally combine and repurpose as well as host factors that play a crucial role in antivirals and determine safety and efficacy the viral life cycle and contribute to the of the three combination drugs cytokine storm. Since the outbreak of the (Favipiravir+Colchicine,mifenovir+Colchici COVID-19 pandemic, the CSIR has been ne and Nafamostat+5-ALA). The clinical repurposing several drugs to check their trial named MUCOVIN, to be carried out in efficacy for treating the coronavirus patients. partnership with Medanta Medicity, will Published in: include a total of 300 patients in four **Financial Express** different groups of 75 each.

![](_page_19_Picture_0.jpeg)

![](_page_19_Picture_1.jpeg)

#### CSIR-CIMAP

## 8<sup>th</sup> July, 2020

![](_page_19_Picture_4.jpeg)

Cinial Aller & Pleadal
को बढ़ावा देंगे
कमिन्नर ने निर्देश दिया है कि
किसानौं और स्वयं सहायता समूह
की महिलाओं की मदद से लेमन ग्रास
और सहजन की नसंरी विकसित की
जाए। सीमेप एक रुपए में यह पौधा
उपलब्ध करा सकता है। तालाबों के
बच्चें पर लेमन ग्रास मिट्टी का
ठहराव बनाए रखने के लिए
महत्वपूर्ण है।
में उतारे जाएंगे। इससे स्टाटंभप के
उद्यमियों को जोड़ा जाएगा। एमएसएमई
खादी ग्रामोद्योग, वन, उद्यान, ग्राम
विकास विभाग और इडा को इसके
लिए मिलकर कार्य करने को कहा है।

![](_page_19_Picture_7.jpeg)

## Published in:

Dainik Jagran

![](_page_20_Picture_0.jpeg)

![](_page_20_Picture_1.jpeg)

#### CSIR-CIMAP

#### 8<sup>th</sup> July, 2020

![](_page_20_Picture_4.jpeg)

![](_page_20_Figure_5.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_21_Picture_1.jpeg)

#### CSIR-IMTECH

#### 7<sup>th</sup> July, 2020

![](_page_21_Picture_4.jpeg)

अब कोविड-19 के सभी मरीजों का इम्यनोपैथाजीनेसिसस आदि को समझना कोविड 19 के डायग्नॉज पर काम करने वाले। रिकॉई रखेगा और अभी चल रही व आसान होगा। इसके सैंपल अकेडमिया । वायरस की दवा को परखने के लिए। भावी रिसर्च के लिए जरूरत अनुसार के अलावा इंडस्ट्री से शेयर करने का बायरस के लिए वैक्सीन तैयार करने के लिए। सभी रिसर्च इंस्टीट्यूट्स को ये सैंपल अधिकार भी इमटेक के पास सुरक्षित है। यहां पर भी बनेगी बायोरिपॉजटरी..आईसीएमआर के नौ इंस्टीट्यूट हैं। उपलब्ध कराएगा। देश भर में कुल 16 लैब को बायो पेंशेंट का स्वैब ही नहीं ब्लड, यूरिन, रिपॉजटरी बनाने के लिए चुना गया है। एनआईबी पुणे, एनआइंबी बैंगलौर, एनआईबी केरला, एनआईसीईडी कलकत्ता, स्टूल आदि का भी रखा जाएगा। इसके तहत लैब में जो भी सैंपल आएगा, एनआईओ अहमदाबाद, आरएनसीडी जोधपुर, एनआईएआर दिल्ली, एनआईई इसके अलावा पेशेंट की मेडिकल व उस सैंपल व मरीज का रिकॉर्ड रखा चेन्नई, आरआरएच उप्पल इसमें शामिल हैं। डीबीटी के एनसीआर बायोटेक पर्सनल हिस्ट्री भी इन कोविड की वायों जाएगा। इस रिकार्ड के लिए मरीज की कलस्टर फरीदाबाद हरियाणा, आईएसओ भुवनेश्वर,आईएम्पस्टम बैंगलौर, रिपॉजिटरी में उपलब्ध रहेगी। नॉर्थ सहमति लेना अस्पताल की जिम्मेदारी आईएलबीए न्यू दिल्ली के अलावा सीएसआईआर के आईजीआईबी नई दिल्ली, इंडिया में डीबीटी की ये एकमात्र लैव रहेगी। मरीज का सैंपल लेते समय उसके सीसीएमबी हैदराबाद और इमटेक चंडीगढ़ इस लिस्ट में हैं। नॉर्थ में है हालांकि आईसीएमआर समेत सभी हेल्थ रिकॉर्ड व पता भी इमटेक के

कुल पांच लैब हैं जिनमें इसी तरह की पास रहेगा। इस समय इमटेक में चंडीगढ़ को जोड़ लिया गया था लेकिन बाकी अब तक करीब 7500 सैंपल इमटेक रिपॉजटरी बनेंगी। इसमें अब तक करीब के अलावा पंजाब, हरियाणा और सरकारों व अस्पतालों के साथ इसके में टेस्ट किए जा चुके हैं। इससे पहले 300 सैंपल उपलब्ध हैं और बाकियों को उत्तराखंड के सैंपल चेक किए जा रहे जमा कराने के लिए सभी अस्पतालों को हैं। उत्तराखंड सरकार के साथ एमओयू इन एमओयू अपडेट किए जा रहे हैं। इसटेक में माइक्रोबियल टाइप कल्चर अपडेटेड मैमोरंडम ऑफ अंडरस्टैंडिंग करते समय इस रिकॉर्ड वाले हिस्से ज्यादा सैंपल रिकॉर्ड में रखे जा सकेंगे। भी हैं जो देश का सबसे बड़ा सेंटर है।

**Published in:** 

Dainik Bhaskar

![](_page_22_Picture_0.jpeg)

![](_page_22_Picture_1.jpeg)

# **CFTRI Signs MoU With Schevaran Labs**

CSIR-CFTRI

7<sup>th</sup> July, 2020 across the country in mitigating the sufferings

![](_page_22_Picture_5.jpeg)

of the people. Further, hand sanitisers prepared in the lab as per WHO guidelines were distributed to District Administration and others. The Institute is also planning innovative solutions to promote rural entrepreneurships with the involvement of FPOs, NGOs, Women Self Help Groups and to address reverse migration to the country side. CSIR-Central Food Technological Research Though the primary focus will be supporting Institute (CFTRI), Mysuru, has signed an sustainable food enterprises, CFTRI is also exploring the potential of quality disinfectants MoU with Schevaran Laboratories Pvt. Ltd., Mysuru, recently making way forward and affordable sanitisers based on plant for collaborative avenues towards the extracts for employment generation. Mysurudevelopment of personal hygiene, cleaning based Schevaran Labs was established in 1988 and related industrial products and at a time when India was still at infancy or solutions. In the post-COVID scenario, primitive in the area of clean environment as both the organisations have felt the need to well as think of quality cleaning and hygiene have more efficient environment-friendly products. Drawing parallel with today's scenario, when Sam Cherian started Schevaran and cost-effective quality products in the market and the partnership would be highly Labs, in a way, it was a true start-up of the beneficial in meeting the emerging present market scenario, but with no support as challenges. During the lockdown period, of today. A steady progress over the past 32 CSIR-CFTRI delivered over 30 tonnes of years has bracketed Schevaran as India's ready-to-eat (RTE) food supplements and leading and largest manufacturer of hygiene and cleaning products with success in B2B and flavoured water to the migrant workers Produced by Science Communication and Dissemination Directorate, (SCDD), CSIR, Anusandhan Bhawan, New Delhi

![](_page_23_Picture_0.jpeg)

![](_page_23_Picture_1.jpeg)

B2C sectors. Requisite R&D support is provided by Schevaran Innovation Centre. Besides the CSR activity with Personal Hygiene School Campaign, Schevaran has moved ahead in the combat against COVID-19 by providing large quantities of sanitisers to the local District Administration for use by frontline warriors. With pride, it can be said that the thought process of Schevaran initiated 32 years back has become a reality today with 'Cleaning and Hygiene' being given top priority by the Union Government along with emphasis on 'Make in India and Self Reliance.' Speaking on the occasion, Dr. Raghavarao, Director, CSIR-CFTRI, said that CFTRI would be keen to involve industry from the early stages of product development while fulfilling the customer's aspiration and industrial viability. He also said that co-branding is one of the promising routes for successful commercialisation of innovation directly from lab to market.

Sam Cherian, MD, Schevaran Labs, said that the partnership with the National Laboratory

would help building a robust platform to promote innovations and enable the diverse industry sectors towards achieving cleaning and hygiene in its true form. In reality, the impact will be more in food industry sector that would usher in better hygienic standards through customised formulations.

The MoUs were exchanged in the presence of Dr. T.N. Bhavanishankar, Director, Schevaran Innovation Centre, Dr. K.N. Gurudutt, Dr. M.C. Varadaraj and Anna Cherian from Schevaran along with Scientists from CFTRI, according to a press release.

![](_page_23_Figure_6.jpeg)

![](_page_24_Picture_0.jpeg)

![](_page_24_Picture_1.jpeg)

# 'Set up CoE to probe cause of major chemical incidents'

![](_page_24_Picture_3.jpeg)

![](_page_24_Picture_4.jpeg)

![](_page_24_Picture_5.jpeg)

Set-up a Centre of Excellence (CoE) in India to investigate the root cause of major chemical incidents to protect people and the environment. said JP Gupta, chairman of EAC-Industry II, MoEFCC Ministry of Environment, Forest and Climate Change, in a webinar organized by CSIR-National Environmental Engineering Research Institute (CSIR-Neeri) on 'Development in methodology and tools for impact analysis and risk assessment'. The objective of the webinar was to proliferate methodological tools for environmental impact and risk assessment and improve the effectiveness of the use of environmental impact analyses in decision-making. Around 900 representatives from industries, academics,

authorities, research institutes etc participated in the webinar. The other expert panellists were Deepak Apte, chairman of EAC-Infrastructure, Ministry of Environment, Forest and Climate Change (MoEFCC), Prof Sharad Jain, chairman of EAC-River Valley & Hydroelectric, MoEFCC; Vijay Kulkarni, executive vice-president, Shapoorji Pallonji & Company Pvt Ltd, Prof AK Gosain, IIT Delhi, MV Ramana Murthy, EAC memberinfrastructure, MoEFCC; JS Sharma, EAC, member-Industry II, MoEFCC; Rakesh Kumar, director of CSIR-Neeri; M Suresh Kumar, chief scientist and head, rnvironmental impact and sustainability division (EISD), CSIR-Neeri and Santosh Ghuge, senior scientist, CSIR-Neeri. Ghuge illustrated that a 3D model has a number of advantages over traditional 2D approaches to risk assessment for industrial safety. Apte expressed concern over environmental impact assessment (EIA) of the proposed Navi Mumbai Airport, as it harbours extensive bird diversity. Prof Gosain pointed out that without accurate, authentic and enough data it is difficult to run mathematical models to meet the standard desired in EIA. Produced by Science Communication and Dissemination Directorate, (SCDD), CSIR, Anusandhan Bhawan, New Delhi

![](_page_25_Picture_0.jpeg)

![](_page_25_Picture_1.jpeg)

Jain exhorted that the studies concerning assessment of river valley projects should rely more on primary data gathered through field surveys, satellites, drones, GIS etc. Sharing his international experience on EIA studies, Kulkarni stated that currently there are no specific guidelines for deciding the study area and sampling locations while conducting EIA studies. Bherwani highlighted the methodologies by which environmental damages can monetarily be estimated. Sharma advised to link the risk assessment study of a particular industry or plant with social impact assessment, climate change and biodiversity index. Murthy focused on the need to develop automated sensors for coastal environmental monitoring. Earlier, in his inaugural address, Rakesh Kumar briefed about the preventive risk assessment and auditing to develop a system that allows processing of information for analysis and industrial risk management. M Karthik proposed a vote of thanks. Santosh Ghuge and M Karthik coordinated the workshop.

![](_page_25_Picture_3.jpeg)

![](_page_25_Figure_4.jpeg)

![](_page_26_Picture_0.jpeg)

![](_page_26_Picture_1.jpeg)

# **Coronavirus Not Really Airborne, Can Go Just A Few Feet: Scientist**

CSIR

![](_page_26_Picture_4.jpeg)

Coronavirus is not an airborne disease, going by textbook definition, but the virus can travel in air for a few feet in the form of aerosol, Shekhar Mande, the Director General of Council of Scientific & Industrial Research told NDTV today. The virus can sometimes spread as aerosol through cough or sneeze of a patient, he said as concerns about coronavirus being airborne have surfaced again. Airborne diseases are where the pathogen -- disease-causing virus or bacteria -- can travel and spread through air, like chickenpox, measles or influenza. Aerosol form is when minute respiratory droplets can float in the air for a while but this does not "travel with the wind" and "quickly settles", Dr Mande said.

The New York Times has reported that 239 scientists from across 32 nations have outlined evidence that small airborne particles carrying the virus can infect people. They have also written an open letter to the World Health Organisation flagging the issue and plan to publish it in a scientific journal next week. Quoting scientists, the NYT report said the virus -- carried by large droplets that can either zoom through the air after a sneeze, or gliding the length of a room through exhaled droplets -- can infect people who inhale it.

Such concerns were raised earlier too, but the WHO said there is not enough evidence to say the virus is airborne, like influenza or measles. The respiratory droplets which spread through air can infect people only within enclosed spaces and close range, the agency had said. "We are not writing to the WHO at the moment. The WHO is looking at the scientific evidence and will issue guidelines after consideration. If need be, they can release new guidelines by looking at this research," Dr Mande said. For now, people should be careful as the fear of such spread increases "within closed office spaces", he added. But in these circumstances, face covers should work. For health workers, N-95 masks are a must, he added.

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)

The guidelines making face masks mandatory for everyone was issued after concerns were raised in late March about the virus being airborne. Initially masks were said to be necessary only for infected people. But later, the WHO said for an uninfected person, a mask means an extra layer of protection and made it mandatory for all.

![](_page_27_Picture_3.jpeg)

![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

# **Please Follow/Subscribe CSIR Social Media Handles**

![](_page_28_Picture_3.jpeg)