

# CSIR IN MEDIA



**CSIR**

**NEWS BULLETIN  
26 TO 30 JUNE 2020**





## NBRI Establishes Advanced Virology Lab for COVID-19 Testing

CSIR –NBRI, CIMAP

30 June, 2020



The NBRI, Lucknow, has established an “Advanced Virology Lab” for testing COVID-19. It's a Bio Safety Level (BSL) 3 level facility, with ability to filter virus or bacteria to make it a safe COVID-19 testing facility

The National Botanical Research Institute (NBRI), Lucknow, has established an “Advanced Virology Lab” for testing COVID-19. The facility has been developed based on the guidelines of the Indian Council Medical Research (ICMR), the World Health Organisation (WHO), and the Ministry of Health and Family Welfare.

It is a Bio Safety Level (BSL) 3 level facility. “Biosafety levels are assigned to a facility depending on the pathogen it deals with. According to ICMR guidelines, BSL2 level facility is recommended for COVID-19 but this is an advanced version,” said Dr Samir Sawant, Senior Principal Scientist, NBRI. This advanced version has a “Negative Pressure”, which means it has a suction facility that can suck any aerosol and pass it through filters. It can filter virus or bacteria to make it a safe COVID-19 testing facility. It reduces the possibilities of infections at culturing facilities.

Prof. S K Barik, Director, NBRI, said that the facility will add to the testing capacity of Uttar Pradesh (UP). At present, UP is testing about 20,000 samples per day.

“To follow the protocol, we will start testing 100 samples a day in the first week and later we will scale it up to 500 samples a day,” said Dr Sawant.

“As requested by the higher authorities of the



Government of Uttar Pradesh and the Director General of the Council of Scientific and Industrial Research (DG-CSIR), NBRI took up the initiative for developing the testing facility in the wake of coronavirus pandemic as a service to the people of Uttar Pradesh,” Prof Barik said. Prof. Barik also informed that a team of scientists and researchers from the Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow, will also join the NBRI team for the testing of COVID samples. (India Science Wire)



## NEERI holds follow-up workshop for homeless and migrants

CSIR –NEERI

29 June, 2020



organisations to acquire necessary knowledge and skills regarding health management and medical preparedness for sanitation workers, environmental health risk associated with precautionary disinfection/sanitisation and preventive sanitisation techniques.

This workshop was devised in such a way that the representatives of NGOs and other organisations could become master trainers to subsequently teach the end beneficiaries, that is, homeless and migrants. Dr J S Pandey, Chief Scientist and Head, Climate Change and Skilling Division, CSIR-NEERI; Dr Sadhana Rayalu, Chief Scientist and Head, Environmental Materials Division, CSIR-NEERI; Dr Shilpa Paranjape, RMO, CSIR-NEERI; Suvha Lama, Scientist, CSIR-NEERI; Shilpa Kumari, Scientist, CSIR-NEERI; and Dr Pratap Reddy, Project Scientist, CSIR-NEERI, imparted training to the participants.

In his welcome address, Dr Rakesh Kumar, Director, CSIR-NEERI, emphasised on effective communication according to the target audience. He advised the participants to

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) organised a workshop on 'Environmental Protection and Risk Minimisation Relating to Precautionary Disinfection and Sanitisation of Office Spaces' at Centre for Skill Development and Training (CSDT) recently. The workshop was held as a follow-up to the recent collaboration of CSIR-NEERI with District Legal Service Authority (DLSA), Nagpur and NGOs to provide employment opportunities to homeless and migrants in the area of sanitisation with environment and health measures. In the workshop, training was imparted to representatives of NGOs and other



prepare course modules in various languages. The participants included Arshad Tanvir Khan, International Skill Development Society; Sameer Patel, Sarim Constructions; Amithabh Pawde, Aapulki Samajik Sanstha; Dr Sameer Deshpande; Anand Luthade; Dr Biplab Majumdar, Dr Priti Sawarkar; Asna Khan; Meena Fernandes, and Prerna Soni. Dr Pradeep Salve, Senior Principal Scientist, CSIR-NEERI, co-ordinated the workshop.



## Webinar on career counselling on July 1

CSIR –NPL

28 June, 2020

The Hindu Education Plus in association with the SRM Institute of Science and Technology is hosting a series of webinars on career counselling, covering a range of topics including engineering, medicine, humanities, social sciences and sciences.

The first webinar of the series is scheduled on July 1 from 3 p.m. to 5 p.m. The topic will be “Engineering in an AI-enabled World: What will it take to survive automation?”

D.K. Aswal, Director, Council of Scientific and Industrial Research — National Physical Laboratory (CSIR-NPL); Sandeep Sancheti, Vice-Chancellor, SRMIST; and Damodar Acharya, former Director of IIT-Kharagpur and former Chairman of All India Council for Technical Education; will be the speakers. Students and other interested persons can register by visiting the link <https://bit.ly/2Yv23li> or scan the QR code here.

Published in: [The Hindu](#)



## CCMB's web app gives peek into one thousand plus coronavirus genomes

CSIR –CCMB

28 June, 2020



**HYDERABAD:** As India crossed the milestone of sequencing 1,000 genomes of SARS-CoV-2, Hyderabad-based Center for Cellular and Molecular Biology (CCMB) has come out with an interactive web app named Genome Evolution Analysis Resource for COVID-19 (GEAR-19).

GEAR-2019 gives an interesting peek into the outcome of efforts put in by scientists and researchers from 33 contributing laboratories across the country, for sequencing 1,031 genomes of SARS-CoV-2.

While SARS-CoV-2 causes COVID-19, it is further subdivided into different groups known as 'clades'. The identification of clades plays an important role in understanding probable origin of a virus infecting a certain population and also in testing drugs.

According to GEAR-2019, most sequenced genomes fall either into the A2a clade (617 genomes) or the A3i clade (249 genomes). GEAR-2019 also gives a timeline of distribution of virus belonging to different clades.

The 1,031 sequenced genomes belong to virus samples collected from patients. From Telangana, 193 virus genomes have been sequenced. Of these, 109 belonged to A2a clade, 78 to A3i and six are unassigned.

**Published in:** [New Indian Express](https://www.newindianexpress.com)



## Dr Renu Agrawal nominated to CQFS

CSIR –CFTRI

28 June, 2020



Dr Renu Agrawal is a recipient of many national and international awards. Presently, she is serving in a number of national committees of Department of Science and Technology (DST), Government of India.

In Karnataka, she is involved with the smart village development, SDG -2 programmes, mentoring the interns of SDG-2 and training the officials at ATI by the Government of Karnataka. She is on the selection board of I-Woman Global awards. She has penned many scientific books for the welfare and good health of people. (MR).

Mysuru, June 27:- Karamveer Chakra Dr Renu Agrawal, former chief scientist and rural programme coordinator, CFTRI, Mysuru, has been nominated as an advisor to the Centre for Quality of Food Safety (CQFS), New Delhi.

The center has a vision for the improvement and promotion of food processing in the country as per global practices. It protects the interest of the consumers supporting the farmers, industries and trade.

Published in: [City Today](#)



## IIT Delhi, National Chemical Laboratory working on home-based testing kits for Covid-19.

CSIR –NCL

28 June, 2020

Home-based Covid-19 testing kits could soon be a reality with the Indian Institute of Technology (IIT) Delhi and the National Chemical Laboratory (NCL) Pune working on an alternative testing method which can not only be performed by individuals at home but will also deliver quick results.

The collaborative project with the NCL, which comes under the aegis of the Council of Scientific and Industrial Research (CSIR), has also received financial support from Microsoft India and is expected to be ready in a month's time.

According to the team, the project aims to develop an ELISA (Enzyme Linked Immunoassay) based diagnostic serological assay against Covid-19. If successful, it will create an economical, commercial process for manufacturing the antigens used in ELISA and home-based diagnostic kits to offer an effective, quick, robust and affordable diagnostic solution to manage the Covid-19 outbreak.

"Testing continues to be a challenge in managing Covid-19 and is likely to remain so for the years to come. Currently, Real-time Polymerase Chain Reaction (RT-PCR) tests detect genetic material to perform coronavirus testing. However, such tests can be performed in laboratories only, require several hours, have low rates of specificity and sensitivity and pose risks related to specimen collection and sample handling," Anurag S Rathore, Professor, IIT's Department of Chemical Engineering, told PTI.

"Additionally, these tests cannot be performed by individuals at home. These risks can be minimized by developing IgG and IgM based ELISA assays and home-based testing kits," he added.

IgG is the most abundant immunoglobulin to be produced in response to an antigen and is maintained in the body after initial exposure for long term response. IgM is the first immunoglobulin to be produced in response to an antigen and is primarily detected during the early onset of disease.



"Coronaviruses are composed of several proteins including the spike (S), envelope (E), membrane (M), and nucleocapsid (N). This assay we propose will utilize the microplate-based enzyme immunoassay technique," said Rathore, who is also the institute's Dean, Corporate Relations.

"The technology for the proposed ELISA assay for detection of coronavirus and robust and economical expression systems for production of N and S protein antigens can be transferred to national diagnostic centres and private companies specializing in developing home based kits or point-of-care devices, respectively," he added.

While Rathore did not comment on what will be the approximate cost of the test kit, he said, "it will be considerably cheaper than tests being performed now. However, we will have some concrete results in a month's time and we will be able to analyse only then".

IIT Delhi is the first academic institute in the country to get a nod from the Indian Council for Medical Research (ICMR) for its Covid-19 test kit. The institute has given non-exclusive open licence to Bengaluru-based biotechnology firm Genie Laboratories for commercialising the test, but with a price rider of Rs 500 per kit.

The kits are being manufactured at a facility at the Andhra Pradesh MedTech Zone (AMTZ) in Vishakhapatnam, and are expected to be available in the market next month.

According to the team, the current testing methods available are "probe-based" while the one developed by the IIT team is a "probe-free" method, which reduces the testing cost without compromising on accuracy.

Using comparative sequence analyses, the IITD team identified unique regions (short stretches of RNA sequences) in the Covid-19 and SARS COV-2 genome.

**Published in: [Deccan Herald](#)**



## First Rajamate Kempananjammani Vani Vilasa Sannidhana to be set up in Mysuru

CSIR –CFTRI

28 June, 2020



The statue of Kempananjammani Vani Vilasa Sannidhana in front of Vani Vilas Water Works will be a befitting tribute to the late Queen who was a driving force behind many developmental works in the Mysuru region including the Krishna Raja Sagar (KRS) Dam.

Mayor Tasneem held discussions with the officials of VVWW at the renovated auditorium recently where the officials presented a power-point presentation on the design, extent, facilities and attractions of the Theme Park.

Mysuru, June 28 (UNI) A Water Theme Park with a statue of Mysuru's First Rajamate Kempananjammani Vani Vilasa Sannidhana will be established here near Vani Vilas Water Works (VVWW) opposite CFTRI compound.

The Theme Park will host traditional Yoga postures and a giant statue of Kempananjammani. There are plans of erecting a giant pillar and a statue of Goddess Cauvery on top of the pillar. Models of lake development and rainwater harvesting will come up and the children will have a park and play area inside the Theme Park. Also, the theme park will be connected to the Office of VVWW through an overbridge.

The Theme Park will be established by the Mysuru City Corporation (MCC) and tenders have been floated to identify a suitable consultancy firm to prepare a Detailed Project Report (DPR).

The Park will be built on two acres of land at an estimated cost of Rs 2 crore.



Mayor Tasneem that the Theme Park will be a major attraction for tourists where they can come to the Park after seeing the Rail Museum nearby.

VVWW Executive Engineer P. Nagaraja Murthy said that Rs 2 crore has been reserved in the MCC Budget. “We have called for tenders worth Rs. 4 lakh to identify a suitable consultancy firm to prepare a Detailed Project Report. We have plans to execute the project within one-and-a-half years. Sculptor Arun Yogiraj has expressed interest in carving the statue of Kempananjammani and also carve other sculptures of Yoga to be displayed at the Theme Park.”



# CSIO develops goggles to prevent Covid-19 infection

Technology for healthcare workers involved in treating patients

**VIJAY MOHAN**  
TRIBUNE NEWS SERVICE

**CHANDIGARH, JUNE 27**

The Central Scientific Instruments Organisation (CSIO) has developed a technology for precision manufacturing of safety goggles for healthcare professionals involved in treating high viral load patients as in the case of the Covid-19 pandemic.

The present situation has brought out the need for effective personal protective equipment (PPE) to protect the healthcare service providers, patients and visitors from accidentally getting infected. The technology has been transferred to a private firm for its commercialisation and mass production.

According to scientists, the conjunctiva membrane, located inside the eyelid to lubricate the eyeballs, is the only exposed mucous mem-

## PROTECTIVE EYE WEAR

- Safety goggles are designed with a flexible frame to provide tighter sealing with the skin of the face and would cover the eyes and the surrounding areas and even accommodating for prescription eyeglasses. It consists of a sturdy polycarbonate lens and an adjustable elastic strap for ease of wearing.
- Apart from healthcare professionals, the safety goggles could also be useful for the general public in crowded areas as well as in public transport.



brane of the body. When the eyes are opened, the conjunctiva membrane is also exposed, making it an important, but often overlooked entrance for viruses. The protective eye wear is ergonomically designed to provide full cover and efficient sealing to the eye area from hazardous aerosols as well as other suspended particles.

A team of the CSIO scien-

tists led by Dr Vinod Karar, chief scientist and head, Optical Devices and Systems, had taken up the design and development of the safety goggles in consultation with various industries and stakeholders.

These safety goggles are designed with a flexible frame to provide tighter sealing with the skin of the face and would cover the eyes and the surrounding

areas and even accommodating for prescription eyeglasses. It consists of a sturdy polycarbonate lens and an adjustable elastic strap for ease of wearing.

“The goggles comply with ANSI/SEA Z87.1-2010 standard with respect to see-through optical transmittance and can be used in varied environmental conditions without any fogging or fatigue,” said Dr Neha Khatri, senior scientist and Principal Investigator, CSIO, associated with the project.

The team included Dr Vinod Karar, Dr Sanjeev Soni, Dr Amit L Sharma, Dr Mukesh Kumar and Vinod Mishra.

Dr Surender S Saini, head, business initiatives and project planning, said apart from healthcare professionals, the safety goggles could also be useful for the general public in crowded areas as well as in public transport.

Chandigarh Tribune: June 28, 2020



# एनबीआरआई में भी होंगे कोविड टेस्ट, लैब शुरू



राष्ट्रीय जनसंघति अनुसंधान संस्थान में कोविड टेस्टिंग लैब का उद्घाटन करते मुख्य सचिव रमेश कुमार शिवारी खान में (बाएं से दाएं) संस्थान के निदेशक प्रो. एसके बरिह और केजीएमयू कुलपति प्रो. एमएलबी भट्ट • फोटो सौजन्य सूचना विभाग

जम्मूण संघट्टपत्र तखनक : राष्ट्रीय जनसंघति अनुसंधान संस्थान (एनबीआरआई) में भी अब कोविड-19 की टेस्टिंग बरी जाएगी। संस्थान में इसके लिए स्थापित नई वायरोलॉजी लैब का शनिवार को मुख्य सचिव आरके शिवारी ने उद्घाटन किया। इस मौके पर केजीएमयू के कुलपति डॉ. एमएलबी भट्ट भी मौजूद थे।

संस्थान के निदेशक प्रो. एसके बरिह ने बताया कि यह सुविधा आईसीएमआर, डब्ल्यूएचओ, स्वास्थ्य एवं परिवार कल्याण मंत्रालय द्वारा दी गई नाइटलैंड के तहत विकसित की गई है। कोविड-19 से लड़ने की दिशा में सीटीआरआई और आईआईटीआर की प्रयोगशाला के बाद एनबीआरआई लखनऊ शहर में सीटीआरआई का तीसरा संस्थान होगा। नमूने केजीएमयू उपलब्ध

कराएगा। निदेशक ने बताया कि एनबीआरआई ने फलप विज्ञान के क्षेत्र में एक प्रमुख शोध संस्थान होने के बावजूद उच्चविवारिषों के निर्देशन में परीक्षण सुविधा विकसित करने की पहल की है। संस्थान के वरिष्ठ प्रधान वैज्ञानिक एवं एनबीआरआई में परीक्षण सुविधा के समन्वयक डॉ. एसबी सार्वत ने कहा कि शुरुआत में 100 नमूनों के साथ परीक्षण सुविधा आरंभ होगी, जिसे बाद में बढ़ाया जा सकेगा।

संस्थान की टीम को केजीएमयू और आईआईटीआर द्वारा प्रशिक्षित किया गया है। प्रोजेक्ट में सीमैप भी सहयोग करेगा। मुख्य सचिव आरके शिवारी जी ने संस्थान को बधाई दी। इस अवसर पर सीमैप के निदेशक डॉ. प्रबोध त्रिवेदी के अलावा वरिष्ठ वैज्ञानिक व केजीएमयू के चिकित्सक मौजूद थे।



# NBRI's Covid testing lab inaugurated

**Lucknow (PNS):** Newly developed 'Advance Virology Lab', where Covid-19 testing facility has been established by National Botanical Research Institute, was inaugurated on Saturday by Chief Secretary RK Tiwari and KGMU Vice-Chancellor Dr MLB Bhatt.

NBRI director SK Barik said the facility has been developed under the guidelines given by ICMR, WHO and Union Ministry of Health and Family Welfare. It is a BSL3 level facility and has a negative pressure, which makes it a safe Covid testing facility.

"The facility will add to the testing capacity of Uttar

Pradesh," Barik said. He mentioned that as requested by the higher authorities of Uttar Pradesh, the NBRI DG took up the initiative of developing the testing facility in the wake of coronavirus pandemic. A team of scientists and researchers from CIMAP will also join the NBRI team for the testing of samples. CIMAP director PK Trivedi was also present on the occasion.

RK Tiwari congratulated NBRI and CSIR for taking the initiative in spite of being a plant-based research institute. He said it is the right time as the number of coronavirus cases is increasing in UP.



## CSIO develops precision safety goggles to prevent infections amid COVID-19 pandemic

CSIR –CSIO

27 June, 2020



The safety goggles are also useful for the general public in crowded areas, public transport

The Central Scientific Instruments Organisation (CSIO) has developed a technology for precision manufacturing of safety goggles for healthcare professionals involved in treating high viral load patients as in the case of the COVID-19 pandemic.

The current situation has brought out the need and significance of effective Personal Protective Equipment (PPE) to protect the healthcare service providers, patients and visitors from

accidentally getting infected. The technology has been transferred to a copy-based private firm for its commercialisation and mass production.

According to the scientists, the conjunctiva membrane, located inside the eyelid to lubricate the eyeballs, is the only exposed mucous membrane of the body. When the eyes are opened, the conjunctiva membrane is also exposed, making it an important but often overlooked entrance for viruses. The protective eyewear is ergonomically designed to provide full cover and efficient sealing to the eye area from hazardous aerosols as well as other suspended particles.

A team of CSIO scientists led by Dr Vinod Karar, chief scientist and head, Optical Devices and Systems, had taken up the design and development of the safety goggles in consultation with various industries and stakeholders.

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the skin of the face and would cover the eyes and the surrounding areas and even accommodating for prescription eyeglasses. It consists of a sturdy polycarbonate lens and an adjustable elastic strap for ease of wearing.

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The team included Dr Vinod Karar, Dr Sanjeev Soni, Dr Amit L Sharma, Dr Mukesh Kumar and Vinod Mishra.

Dr Surender S Saini, head, Business Initiatives and Project Planning, said apart from healthcare professionals, the safety goggles could also be useful for the general public in crowded areas as well as in public transport.



## CDRI, IITR study to decode Covid conundrum

CSIR –IITR

27 June, 2020

LUCKNOW: Why do some patients infected with novel coronavirus not have any symptoms of the disease? Why do some suffer and go to the brink of death while others recover perfectly after treatment?

Answers to such questions, which hold great importance in developing drugs and vaccination for the treatment of Covid-19, will be traced and researched by the two Lucknow-based laboratories of the Council of Scientific and Industrial Research—Indian Institute of Toxicology Research (IITR) and Central Drug Research Institute (CDRI).

The two scientific institutes are conducting ‘molecular surveillance’ of novel coronavirus in which sequencing of the virus is done to help understand its exact structure/nature. This will help researchers know how it has moved from one place to another and changed over time.

CDRI is almost done with molecular surveillance of novel coronavirus and is expected to release its results shortly while IITR scientists are geared up to conduct the exercise to get answers to the unknown.

“To develop any medicine or vaccination, it is important to understand the nature and structure of the virus so that the drug can be developed targeting those areas. For example, if you are in a war, you need to know the strength of your enemy so that you can decide whether you require a baton or a bomb to destroy them completely. Similar is the case with drug development. We have to understand the structure of the virus to come up with drugs for its treatment and for this, sequencing of the virus is essential,” said CDRI director Prof Tapas Kumar Kundu.

He said, “The institute is almost done with molecular surveillance of the virus and its results are expected shortly. The team is studying the virus strains of Covid patients and has prepared the dataset.”



Meanwhile, IITR is all set with equipment to begin with the virus study.

“We will carry out the sequencing of the virus that will help us know how this virus has moved from one place to another, the reason behind its spread and how its impact on health has changed over time. The main purpose of the sequencing is to know how the virus has been mutating in Uttar Pradesh,” said IITR director Prof Alok Dhawan.

He said locals who were in different parts of the country have come back to the state and some have been tested Covid positive. The virus sequencing of such patients will help them understand whether the virus is the same everywhere or it is mutating, he said.



## CCMB app gives peak into more than 1,000 sequenced COVID-19 genomes from India

CSIR –CCMB

27 June, 2020



GEAR-2019 gives an interesting peak into the outcome of the efforts put in by scientists and researchers from 33 laboratories across India for sequencing 1,031 genomes of the novel coronavirus.

**HYDERABAD:** As India crossed the milestone of sequencing 1,000 genomes of the coronavirus, the Bioinformatics Center of Hyderabad-based Center for Cellular and Molecular Biology (CCMB) has come out with an app named Genome Evolution Analysis Resource for COVID-19 (GEAR-19).

GEAR-2019 gives an interesting peak into the outcome of the efforts put in by scientists and researchers from 33 laboratories across India for sequencing 1,031 genomes of the novel coronavirus.

**Published in: [New Indian Express](#)**

While the novel coronavirus (SARS-CoV-2) causes the Covid-19 infection, the virus is further subdivided into different groups known as 'clades'.

The identification of clades plays an important role in understanding the probable origin of a virus, infecting a certain population and also in testing of drugs and vaccines.

According to GEAR-2019, most of the sequences genomes fell into either the A2a clade (617 genomes) or the A3i clade (249 genomes).

GEAR-2019 also gives a timeline of the distribution of virus belonging to the different clades, in different states.

The 1,031 genomes sequenced belong to virus samples collected from patients, from 19 states.

From Telangana, 193 virus genomes have been sequenced. Of these, 109 belonged to A2a clade, 78 to A3i and six are unassigned.



## NEERI team collects samples of two sewage treatment plants

CSIR –NEERI

26 June, 2020

Chandigarh: A team of scientists of National Environmental Engineering Research Institute (NEERI) visited Chandigarh a few days ago and collected samples of two sewage treatment plants (STPs) at Raipur Khurd and Raipur Kalan.

Now, the scientists will prepare a detailed report to advise the civic body on remedial measures to run the STPs according to designed standards. As per the MC records, the current biochemical oxygen demand (BOD) of these two STPs is between 80 and 90mg per litre. According to the NGT directions and the environmental norms, the authority needs to bring it down to at least 5mg per litre.

Since both of the STPs are old, the civic body has been exploring various options. “We gave details to the NEERI scientists and they have also asked for the request of proposal documents, which were submitted by different companies under the Smart City plan to upgrade five of the six STPs, including the Raipur Khurd and Raipur Kalan ones,” said an MC senior officer.

The move has come following the NGT orders to the civic body a few months back to hire the expert consultancy of NEERI to improve the functioning of these STPs. The MC then hired their services for Rs 9 lakh.

What is BOD?

It is the amount of dissolved oxygen needed or demanded by aerobic biological organisms to break down organic material in water at specific temperature over a given time.

Published in: [Times Of India](https://timesofindia.com)



## Eight-year-old White Tiger Dies Of Tumour At Nehru Zoological Park In Hyderabad

CSIR –CCMB

26 June, 2020



eight years of age, which was born in Nehru Zoological Park passed away on June 25 at 9.15 am. The parents of Kiran are Badri and Sameera," read a press note from the Nehru Zoological Park.

The release said, "A few years back, father of Kiran, Badri and his grandfather Rudra died from a neoplastic tumour at the jaw at the age of 12. The grandfather also died of the tumour at the age of 14."

A white male tiger aged about eight years of age passed away on Thursday at Nehru Zoological Park in Hyderabad. It was suffering from a neoplastic tumour

Keeping in mind Kiran's health, LaCONES (Laboratory for the Conservation of Endangered Species), Centre for Cellular and Molecular Biology (CCMB), in Hyderabad, was approached to study the causes of neoplastic tumour in white tigers.

In an unfortunate incident, a white male tiger aged about eight years of age passed away on Thursday at Nehru Zoological Park in Hyderabad. It was suffering from a neoplastic tumour in the right side of its lower jaw. The tiger 'Kiran' was under the intensive care of the zoological park.

A post-mortem was conducted and lesions were observed and a hard mass of approximately 500 grams was found necrosed, extended into the lower jaw.

### 'Father & grandfather also died of tumour'

"It is informed that the white tiger Kiran, about

"The lungs are infiltrated with small neoplastic tumours by which, the total lung collapsed leading to death associated with asphyxia," the release said. All the samples were collected and sent to VBRI, Shantinagar, Hyderabad for further examination

Published in: [Republicworld](http://www.Republicworld.com)





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