

DAILY PT POINTERS

15th April, 2024



Zero FIRs registered over killing of two Kuki-Zo men; bodies yet to be returned

Abhinay Lakshman
NEW DELHI

The Manipur police on Sunday registered two Zero FIRs over the killing of two Kuki-Zo village volunteers in firing near Kangpokpi district on Saturday.

The bodies were allegedly mutilated and the police are working on returning them to the family



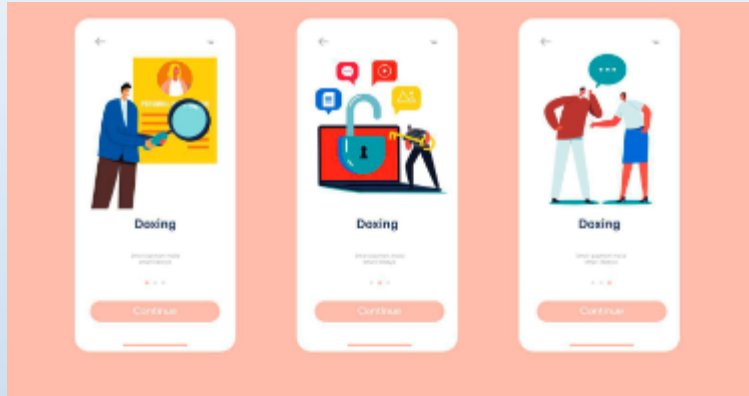
Tight security arrangement made on the highway between violence-hit Churachandpur and Bishnupur. RITU RAJ KONWAR

Several tribal bodies have issued statements, some calling for a shutdown in Kangpokpi, and others for a candlelight vigil in Churachandpur.

A Kuki students' body in Delhi-NCR has written to Prime Minister Narendra Modi and Home Minister Amit Shah, stating that Mr. Shah's visit to Manipur is "a must" now and he must

- A Zero FIR can be filed at any police station, regardless of jurisdiction. No serial number is assigned to the case, instead the FIR is given the number '0' and hence the name. The case is later transferred to the appropriate police station for further investigation.
- the concept of zero FIR is not an old one and was introduced only after the recommendations of the Justice Verma Committee to make it legally binding on the police to act quickly and to prevent them from using the excuse of jurisdiction.

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What is doxing and what measures can you take if it happens to you?

The act of digitally publicising a person's private details is called doxing. It allows doxxers and criminals who are thousands of miles away to target victims by putting their private details online for others to exploit.

John Varma
A woman in mid-February reached out to The Hindu. After a long 30-day search, she found the report on her name. It showed a video of her dancing at an event and compared her performance to one of the most popular dancers in the world. She was asked to perform at a dance festival, but she refused to do so. Many others began to abuse the video as well, and joined in to harass the woman, who looked for support. Though the video was disabled by its copyright owners, the woman—a well-known singer with a fan club—continued to get hate mail.
The act of digitally publicising a person's private details is called doxing, or doxxing. It involves putting sensitive or highly personal data such as other people's home addresses, phone numbers, personal IDs, medical conditions, government documents, and security numbers, live locations, insurance information, private employment details, etc. Such a situation is usually obtained through illegal methods such as hacking or theft. However, publicising someone's private public content that an individual did not intend to share for public consumption can also result in doxing or doxxing.

The latest behind doxing
For example, an online post regarding a group of activists of a human rights organisation in their video being shared on their friend's Instagram account, but they were not aware that their identity could be publicly exposed on it or someone with their employees tagged. While the user who made it is a ready-made support, it can be legally or otherwise, their intent was to be malicious and to exchange others.
"We believe in the intent of the person sharing the information. For example, if we believe the someone is sharing information with an abusive intent, or to harass or encourage others to harass another person, we will take action," stated a social media policy manager and social policy page.
Doxing does not mean it is taking the perpetrator to justice. Those who are affected should take steps to protect themselves to limit their own attack by reporting the problem to the police, updating their contact information, and reporting any harassment or threats to the police. Doxing can also cause the people who live or work near the victim, someone who has the person's details of being targeted for their

people who have been doxed to its own risk. It is not about what is being shared or what is being done, but about the intent of the person who is doing it. This can lead to a loss of privacy and security, and it can be used to harass or threaten people. Doxing can also cause the people who live or work near the victim, someone who has the person's details of being targeted for their

is owned by Google, so we can directly report any content posted there as well. It has a reporting mechanism for public information, and a private option where public information is based on a specific report. It also provides a complaint form.
Recently, investigating officers placed a ban on social media companies to stop doxing and to enforce guidelines. The change is set to go into effect in July. "Previously, doxing was combined with our harassment guideline. However, we consider these distinct harm types, so we separated them to better reflect these as separate or parallel," said the social guidelines on the platform support page.
However, since social media companies operating within the country are bound by India's IT Rules, submitting a cyber-crime complaint to the police can make the platform to forward the action quickly.
"It has to be said, victims of doxing's real harm is to have their identity exposed. It always tell people to be generally careful in what they are sharing so they can avoid such a situation. If it has been doxed, once you feel mostly ready, you can go back," Doxxers said. At the same time, it is also a good idea to ensure that their secondary identity information (PII) has been removed and that their accounts are secure, she noted.
"There will be a plan, but it is not a family and a support structure," Chaudhary suggested. "Without support, it is hard to do it alone. Victims are targeted for news coverage and we can't control whether it is shared or not."

- The act of digitally publicising a person's private details is called doxing, or doxxing.
- Doxxers generally publicise highly personal data such as other people's home addresses, phone numbers, private email IDs, medical conditions, government documents, social security numbers, live locations, insurance information, private employment details, etc.
- Such information is usually obtained through illegal methods such as hacking or theft.
- However, publicising private or semi-public content that an individual did not intend to share for public consumption can also result in doxing and harassment.

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WHAT IS IT?

Cryogenics: keep it chill

Vasudevan Mukunth

Cryogenics is the science of materials at temperatures below negative 153 degrees C. The technologies by which materials are cooled up to this temperature are collected under the term refrigeration. Instead, cryogenics deals with thermal conditions in which even the substances that we encounter in our daily lives as gases — such as hydrogen, nitrogen and, of course, the air in our atmosphere — are liquid.

This field typically uses helium and nitrogen as the cryogenic fluid, the thing that cools a substance. Nitrogen has a boiling point of negative 196 degrees C, and helium, negative 269 degrees C. So below these temperatures, they are liquid. Such fluids need to be stored in vacuum flasks or they could leak and damage their surroundings.

Many cryogenic materials have desirable properties. For example, hydrogen is one of the best rocket fuels but it can only be used as a liquid, so it needs to be cryogenically cooled. (Cryogenic hydrogen and cryogenic oxygen power the third stage of ISRO's LVM-3 rocket.) In the process of cryogenic hardening, a material — steel in particular — can be made harder and stronger. This is because as it is cooled to around



Models of the Cryogenic engine, and other components used by ISRO in its GSLV mission at the ISRO Museum at Satish Dhawan Space Centre (SDSC) at Sriharikota. VFI ANKANNI RAO

negative 185 degrees C, more of the steel's crystal structure acquires the martensite configuration. Magnetic resonance imaging (MRI) devices used in medical diagnostics use cryogenic fluids to cool their magnets.

For feedback and suggestions for 'Science', please write to science@thehindu.co.in with the subject 'Daily page'

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EXPLAINED HEALTH

India's hepatitis headache

Despite killing as many people globally as tuberculosis, viral hepatitis remains under-diagnosed and untreated. Despite having a national programme, the situation in India is not any better

ANONNA DUTT
NEW DELHI, APRIL 14

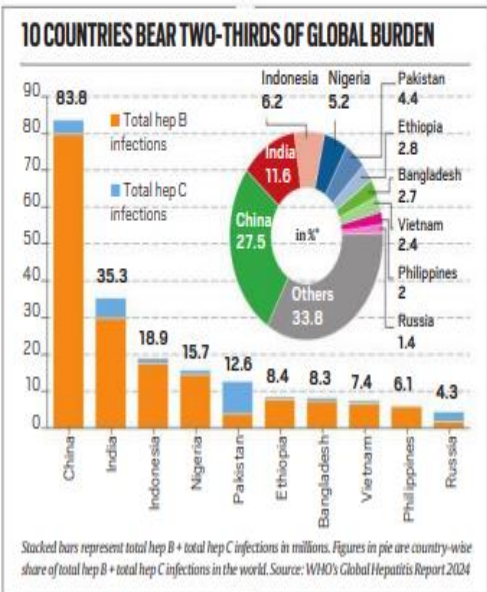
ACCORDING TO the World Health Organisation's (WHO's) Global Hepatitis Report 2024, India has among the highest burdens of viral hepatitis – tied with tuberculosis (TB) as the second largest infectious killer globally – in the world. Covid-19 was the number one infectious killer, according to the report which used data from 2022.

Globally, an estimated 1.3 million people died of viral hepatitis in 2022 (as compared to 1.1 million in 2019), even as its incidence – number of new cases in a year – went down to 2.2 million in 2022 (as compared to 2.5 million in 2019). Even more concerning is the fact that diagnosis and treatment for viral hepatitis remained extremely low.

What is viral hepatitis?

There are five hepatitis viruses that cause liver disease in humans. Hepatitis A and E are transmitted through contaminated food and water, and result in weeks-long symptoms such as fever, abdominal pain, jaundice (yellowing of skin), dark urine, and pale stools.

The WHO report, however, pertains to the blood-borne hepatitis B (hep B) and hepatitis C (hep C) viruses. Some of these viruses may result in a short-term infections which re-



cialists according to an international guideline. The problem is that the parameters mentioned in the guideline for initiating treatment exclude seven to eight of the 10 people who are diagnosed with the infection. There is a need to adopt a 'treat all' approach just like we have done for HIV – meaning anyone diagnosed with the condition should be offered treatment immediately. "The antiviral treatment for hep B slows the ability of the virus to damage the liver.

With regard to hep C, according to Dr Sarin, just making medicines available is half the battle won. "The available treatment can cure hep C, and has a good efficacy of 80% to 90%. Unlike hep B, for which medicines have to be taken for life, the treatment for hep C goes on for a shorter duration [12 to 24 weeks]," he explained.

How does India's response to viral hepatitis compare with that to TB?

Crucially, despite the infection killing almost as many people as TB, it does not receive nearly as much attention. Globally, treatment coverage for TB was estimated to be around 70% in 2022, but the coverage for hep B and C was only 3% and 20% respectively.

In India, the numbers of deaths due to viral hepatitis aren't comparable to TB, which killed an estimated 3.31 lakh people in 2022, but the disparity in treatment cov-

also remained abysmally low. According to the report, only 2.4% hep B cases and about 28% hep C cases were diagnosed everyone is vaccinated," he said.

With regard to hep C, the WHO report says that India is one of 10 countries where 80% in-

- Recently , the 2024 Global Hepatitis Report was released by the World Health Organization (WHO).
- It is the first consolidated WHO report on viral hepatitis epidemiology, service coverage and product access, with improved data for action.
- It presents the latest estimates on the disease burden and the coverage of essential viral hepatitis services from **187 countries across the world.**
- According to the Report, **254 million people lived with hepatitis B and 50 million with hepatitis C in 2022 globally.**
- The data shows that the estimated number of deaths from **viral hepatitis** increased from 1.1 million in 2019 to 1.3 million in 2022.
- India accounted for the second-highest number of cases of hepatitis B and C in 2022 after China, with 3.5 crore infections

HEADLINES OF THE DAY



PIB-Defence (GSIII)

Ministry of Defence

DRDO & Indian Army conduct successful trials of indigenous Man Portable Anti-tank Guided Missile Weapon System

Posted On: 14 APR 2024 10:38AM by PIB Delhi

- Man Portable Anti-tank Guided Missile (MPATGM) Weapon System, indigenously designed and developed by Defence Research & Development Organisation (DRDO), has been field evaluated in different flight configurations several times with the objective of proving the technology with high superiority.
- The ATGM system is well-equipped with day/night and top attack capability.

HEADLINES OF THE DAY



PIB-Defence (GSIII)



- Meghdoot was launched on 13 April 1984, when the Indian Army and Indian Air Force (IAF) advanced to the Siachen glacier to secure the heights dominating the Northern Ladakh region.
- The operation involved the airlifting of Indian Army soldiers by the IAF and dropping them on the glacial peaks.
- Although the operation began in 1984, IAF helicopters were already operating in the Siachen Glacier since 1978, flying the Chetak helicopters which was the first IAF helicopter to land in the Glacier in October 1978.

HEADLINES OF THE DAY

PIB-S&T (GSIII)

Office of Principal Scientific Advisor to GoI

India Celebrates World Quantum Day 2024 - Aspires to lead in Quantum Science and Technology

Posted On: 13 APR 2024 5:45PM by PIB Delhi



India is celebrating World Quantum Day on April 14, with a vision to establish itself as a global frontrunner in the realms of quantum science and technology. This occasion reflects India's ongoing efforts and aspirations to excel in diverse fields leveraging quantum principles.

Quantum Mechanics, once confined to theoretical realms, has now transitioned into the realm of practical engineering, giving rise to a spectrum of groundbreaking applications. The exploration of atoms and sub-atomic particles has led to the development of technologies like LEDs, lasers, and ultra-precise atomic clocks, instrumental in systems like the Global Positioning System (GPS). The spotlight now shines on harnessing and controlling quantum systems for applications such as Quantum Computing, Quantum Communications, and Quantum Sensing.

The National Quantum Mission (NQM), conceptualized by the Prime Minister Science Technology Advisory Council (PM-STIAC) received Cabinet approval on April 19, 2023 with a total outlay of Rs 6003.65 Crore for a period of eight years. The Mission aims to seed, nurture, and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in Quantum Technology (QT).

HEADLINES OF THE DAY



News on air-Culture (GSI)

Traditional Harvest Festivals Including Vaisakhi, Vishu And Bohag Bihu Being Celebrated In Various Parts Of The Country Beginning Today



- Traditional harvest festivals are being celebrated in various regions of the country for two days beginning today in the form of Vaisakhi, Vishu, Bishub, Bohag Bihu, Poila Boishakh, Vaishakhadi and Puthandu.
- People of Punjab call it 'Vaisakhi', in Kerala, the day is celebrated as 'Vishu', in West Bengal, it is celebrated as 'Poila Boishakh', in Assam, as 'Bohag Bihu'. In Tamil Nadu, it is observed as 'Puthandu'. The festival of harvest, Baisakhi is being celebrated in the northern part of the country today with full enthusiasm and mutual brotherhood.