21st Jan, 2025

1. <u>Study Recommends 179 Communities for SC, ST, OBC Inclusion</u> GS 2 (Governance)

• Why in News: In one of the largest ethnographic studies conducted by the Anthropological Survey of India (AnSI) in collaboration with Tribal Research Institutes Study moots inclusion of 179 groups in SC, ST, OBC lists (TRIs), 268 denotified, semi-nomadic, and nomadic

tribes have been comprehensively categorized for the first time.

Key Findings:

 This study, initiated in 2020 and completed by August 2022, was commissioned by a panel formed by NITI Aayog. The research aimed to address the long-standing issue of these tribes not being classified under the Scheduled Castes (SC). Scheduled hinay Lakshman
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Gane of the largest ethnouphic studies of its kind,
e Anthropological Sury of India (Ansi)) and TriI Research Institutes

district, Telangana. FLE PHOTO
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mended as fresh addition
to these lists.

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August 2023. The stuc oncluded that 63.
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communities, changed their names, or migrated to other States/UTs.
This report's recommendations to add entries to the SC, ST, OBC lists, which will consequently swell their populations, comes as uncertainty grows over the next Census and whether caste will be enumerated in it, with the clamour for increasing quota percentages to match

ly growing in the absence of a population count. While the Social Justice Ministry waits for the "finalised" report from the NTTI Aayog panel, sources told The Hindu that vote told The June 10 to The NTI Aayog panel, sources told The Hindu that vote to the Third The North Communities that are aligned to the Third The North Communities that are calling into question the premise of classifying NTS, NTS and SNTS as SC,

Their argument is tha being a DNT, NT or SNT adds a layer of discrimina tion to their lives, becaus of which the only fair clas sification would be to create a quota category just for these communitie – either a separate vertica or a sub-quota for then within each category.

- classified under the Scheduled Castes (SC), Scheduled Tribes (ST), and Other Backward Classes (OBC) categories, and propose appropriate classifications.
- Recommendations for Inclusion: The study has recommended the inclusion of 179 communities in SC, ST, or OBC lists across 26 states and union territories.
- Out of these, 85 are fresh additions
 - 46 for OBC status,
 - 29 for SC status,
 - 10 for ST status
- O Uttar Pradesh had the highest number of additions (19 communities), followed by Andhra Pradesh, Tamil Nadu, Madhya Pradesh, and Rajasthan (8 each)
- Corrections and Partially Classified Communities: Nine communities' categorization was recommended
 for correction. Many communities, while studied, were found to have already been partially categorized
 in state lists or central lists for specific states.
- "Not Traceable" Communities: The study found 63 communities (over 20%) as "not traceable". These are
 communities that have either assimilated into larger groups, changed their names, or migrated to other
 states or territories.

Who Are the Scheduled Castes (SCs)?

- Scheduled Castes (SCs) refer to communities in India that have historically faced severe oppression, discrimination, and social exclusion, primarily due to the Hindu caste system.
- These communities were once known as "untouchables" and continue to experience marginalization, though affirmative actions have been introduced to improve their social and economic conditions.
- According to the Constitution Order of 1950, only marginalized Hindu communities can be categorized as SCs.
- They were traditionally outside the four main varnas (*Brahmins, Kshatriyas, Vaishyas, and Shudras*) in the Hindu social hierarchy and were often referred to as "avarnas" (those who don't fit into the varna system).

Who Are the Scheduled Tribes (STs)?

- Scheduled Tribes (STs) are indigenous communities that have historically faced oppression, marginalization, and struggle. Like SCs, STs are also categorized as "avarnas" but their identity is rooted in their distinct cultural practices, geographical isolation, and social structure.
- STs, also known as *Adivasis*, are the original inhabitants of India, often living in remote and isolated areas.
 They have distinct languages, customs, and cultures, and are often considered to be at a lower level in the social hierarchy due to their isolated way of life.

What Are Other Backward Classes (OBC)?

- Other Backward Classes (OBC) is a term introduced by the Mandal Commission in 1980.
- These are castes that fall between the higher varnas (Brahmins, Kshatriyas, Vaishyas) and the marginalized groups (SCs and STs).
- OBCs benefit from affirmative action programs like reservations in education, government jobs, and political representation, but not to the same extent as SCs and STs.

2. Mullaperiyar Dam Safety **GS 2 (Governance)**

Why in News: The Supreme Court of India has recently intervened in the long-standing dispute between Tamil Nadu and Kerala over the safety of the Mullaperiyar dam, which has been in existence for 129 years. The court

has asked both states to address whether the safety of the dam should be overseen by a committee formed by the court itself or a new statutory committee established under the Dam Safety Act, 2021.

What is the issue?

- The Mullaperiyar dam, located in Kerala but managed by Tamil Nadu, is a major point of contention between the two states.
- Kerala has raised concerns about the safety of the dam, citing risks such as climate change, heavy rainfall, and potential floods. Kerala has even proposed building a new dam, as it believes the existing one is deteriorating.
- The Legal Dispute: In previous years, the safety of the dam was supervised by a committee formed by the Supreme Court. The dispute escalated when Kerala accused Tamil Nadu of obstructing necessary repairs
 - and maintenance to ensure the dam's safety.
- Tamil Nadu countered by claiming that Kerala was deliberately delaying approvals for maintenance work and was not cooperating in the process.
- Supreme Court's Intervention: The Supreme Court has asked Tamil Nadu and Kerala to address the effectiveness of these two committees—whether the current one formed by the court or the statutory one under the Dam Safety Act, 2021—would be better suited to oversee the dam's safety.

Positions of the States:

- strengthen the dam.
- factors like climate change.

Mullaperiyar Dam

- The Mullaperiyar Dam, located in Kerala but operated by Tamil Nadu, is situated within the Periyar Tiger Reserve.
- Constructed between: 1887 and 1895
- The Mullaperiyar Dam, 155 feet high and 1,200 feet long, was constructed between 1887 and 1895 under
- Its purpose was to divert the waters of the west-flowing Periyar River eastward to arid regions of Tamil Nadu, specifically the districts of Theni, Madurai, Sivaganga, and Ramanathapuram.

Which panel is better for Mullaperiyar, SC asks States

Court asks T.N. and Kerala whether the supervisory committee formed by it or a statutory committee under the new Dam Safety Act of 2021 will be more effective in taking care of the

The Hindu Bureau

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- - Tamil Nadu's Position: Tamil Nadu has criticized Kerala for raising concerns about the dam's safety while obstructing the necessary works and approvals to maintain it. Tamil Nadu has accused Kerala of delaying even routine maintenance work, which has hindered efforts to
 - Kerala's Position: Kerala, on the other hand, has pushed for the decommissioning of the dam and constructing a new one, citing safety risks posed by the aging structure and environmental

• The Dam Safety Act, 2021:

- The Dam Safety Act, 2021, mandates the creation of a National Committee on Dam Safety, which is responsible for establishing safety policies, guidelines, and standards for dams across India.
- This new statutory committee is led by the Chairperson of the Central Water Commission and includes specialists in dam safety.
- The Supreme Court, however, questioned if the existing supervisory committee it created earlier was sufficient, or if the statutory committee under the new law would be more effective in managing the dam's safety.

Prioritising IMEC is in America's Best Interest GS 2 (International relations)

Why in News:

- The United States-India relationship has evolved into a cornerstone of modern geopolitics, underpinned by shared democratic values, economic interests, and regional security priorities.

 Prioritising IMEC is in America's best interest
- Since the Clinton administration redirected bilateral ties in the 1990s, this partnership has matured into a vital strategic alliance.
- Today, as global dynamics undergo significant shifts, this relationship gains prominence, offering substantial opportunities for collaborative growth, exemplified by the ambitious India-Middle East-Europe Economic Corridor (IMEC).
- The Strategic Imperative of IMEC: A Transformative Vision
 - A Gateway to Economic Integration
 - IMEC offers a unique opportunity to create seamless trade routes by integrating railways, shipping networks, and other transportation systems across the participating nations.
 - This connectivity is expected to reduce transportation costs significantly, enhance supply chain efficiency, and facilitate faster movement of goods and services.
 - By establishing direct links between major economic hubs, the corridor could unlock untapped trade potential, particularly for inland regions and underdeveloped markets within participating countries.
 - By decentralising trade routes and reducing overreliance on traditional chokepoints such as the Suez Canal, IMEC could emerge as a cornerstone of a more stable global trading system.

A Strategic Alternative to China's BRI

- Unlike the state-controlled model of the Belt and Road Initiative (BRI), which has drawn criticism for creating debt dependency in participating nations, IMEC aims to promote economic growth based on democratic principles, market-driven investments, and equitable partnerships.
- This approach appeals to nations seeking infrastructure development without compromising their sovereignty.
- For India, the corridor's success holds particular significance. By reducing trade costs and enhancing maritime logistics, IMEC strengthens India's ability to compete in the global economy.
- It also positions India as a central player in a rules-based international economic order, furthering its ambitions as a global power.

Energy and Technological Innovation

- The corridor **envisions developing cross-border pipelines for hydrogen and electricity**, which could pave the way for a sustainable energy future.
- These efforts align with global initiatives to reduce carbon emissions and transition to renewable energy sources.
- By integrating energy infrastructure into the corridor, IMEC not only supports economic development but also contributes to the global fight against climate change.
- Additionally, the inclusion of digital communication infrastructure within IMEC reflects its forward-looking approach to technological advancement.
- High-speed data networks, fibre-optic cables, and other digital assets integrated into the corridor could facilitate innovation, enhance connectivity, and enable collaboration in emerging industries such as artificial intelligence, fintech, and cybersecurity.

Geopolitical Implications

- By developing closer ties between the United States, India, and other participating nations, the corridor has the potential to realign regional geopolitics.
- For the Middle East, IMEC provides a framework for deeper integration with the West, helping nations like Saudi Arabia and the UAE diversify their economies and modernise their infrastructure.
- For Europe, the corridor strengthens ties with South Asia, creating opportunities for greater economic and technological collaboration.

A Vision for Shared Prosperity

- Ultimately, the strategic imperative of IMEC lies in its capacity to transform the global economic landscape.
- By integrating economies across three continents, focusing on innovation, and addressing energy security, the corridor serves as a beacon of collaborative progress.
- Its potential to reduce trade barriers, promote sustainability, and enhance regional stability underscores its importance as a visionary project for the 21st century.
- The successful implementation of IMEC would not only reshape global trade dynamics but also reinforce the shared values of its participants, offering a compelling alternative to unilateral approaches in an increasingly interconnected world.

Challenges and Collaborative Opportunities in IMEC's Realisation

Investment and Financial Viability

- Constructing the corridor's physical and digital infrastructure, comprising railways, shipping networks, pipelines, and data communication systems, demands billions of dollars.
- Governments must allocate resources for IMEC while balancing domestic priorities such as healthcare, education, and existing infrastructure needs.
- Private-sector participation is critical to closing the investment gap.
- However, attracting corporate investors requires the development of clear financial frameworks, incentives, and risk-sharing mechanisms.

o Political Coordination and Willpower

- **Each nation has unique economic priorities, strategic goals**, and domestic challenges, which could lead to conflicting agendas.
- For instance, countries in the Middle East, like Saudi Arabia and the UAE, may focus on diversifying their economies beyond oil, while European nations might prioritise environmental sustainability and technological innovation.
- India and the U.S. may emphasise strategic counterbalances to China's Belt and Road Initiative (BRI), requiring alignment with the broader goals of other participants.
- However, this challenge also creates a platform for unprecedented diplomatic engagement.
- Regular summits, multilateral negotiations, and mechanisms like working groups can provide a forum to reconcile differences and develop mutually beneficial strategies.

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- o Infrastructure Development Complexities
 - Building efficient railways, maritime hubs, and pipelines across multiple countries demands meticulous planning and execution.
 - **Disparate regulatory standards**, varying levels of existing infrastructure, and **bureaucratic red** tape in different nations can create bottlenecks.
 - Additionally, ensuring that all participating countries adhere to uniform construction and safety standards adds another layer of complexity.
 - The opportunity here lies in creating collaboration among the world's leading engineering firms, technology providers, and infrastructure experts.
- Balancing Sustainability and Economic Growth
 - IMEC's vision of integrating green energy solutions, such as hydrogen pipelines and renewable energy sources, aligns with global sustainability goals.
 - However, balancing this environmental commitment with economic growth can be challenging, particularly for nations heavily reliant on fossil fuels.
 - Transitioning to clean energy infrastructure requires significant investment, technological innovation, and policy changes.
 - Countries like India, already a leader in green hydrogen, can play a pivotal role in advancing sustainable practices within IMEC.
 - International partnerships with nations like Germany and Japan can further accelerate the adoption of renewable energy technologies, reducing the environmental impact of the corridor.
- The Importance of U.S. Leadership in the Realisation of IMEC
 - The United States' leadership is pivotal in steering IMEC towards success.
 - Under the Trump administration, diplomatic milestones like the Abraham Accords laid the groundwork for initiatives like IMEC by fostering cooperation in the Middle East.
 - As the U.S. seeks to consolidate its strategic partnerships, the corridor offers a platform to reinforce its
 alliances with India and other participants.
 - Moreover, the rapport between Donald Trump and Indian Prime Minister Narendra Modi could serve
 as a catalyst for strengthened collaboration, particularly in convening stakeholders to define IMEC's
 future trajectory.

Conclusion

- The India-Middle East-Europe Economic Corridor symbolises a bold reimagining of regional economic cooperation.
- By creating integration across diverse nations, the project has the potential to reshape global trade, bolster energy security, and drive technological innovation while addressing environmental challenges.
- The United States and India, as key architects, bear the responsibility of shepherding IMEC to completion.

4. <u>UGC vs State Government</u> GS 2 (Governance)

- Why in News: Six state universities in Tamil Nadu have been without Vice Chancellors (VCs) for several months to over a year. The delay in appointing new VCs is due to a disagreement between the Governor (acting as the exofficio Chancellor) and the Tamil Nadu State Government regarding the composition of the search committee that selects VCs.
- The Core Disagreement
 - Governor's Stance: The Governor insists that a nominee from the University Grants Commission (UGC) must be included in the VC search committee. This is based on the UGC Regulations, 2018, which mandate such a nomination.

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 $\circ \quad \textbf{State Government's Stance} \colon \text{The Tamil Nadu government argues that the search committee should}$

follow the procedures outlined in the **State University Acts**. These Acts typically only require nominees from the **Chancellor**, the **syndicate** (a university body), and the **senate**, excluding the UGC.

 The **State government** opposes UGC involvement, fearing it undermines the autonomy of state universities.

• Legal Complications

- The situation is complicated by conflicting Supreme
 Court rulings
 - One set of rulings supports the Governor's view, stating that UGC regulations are mandatory and can override State laws in case of conflict.
 - Another set of rulings backs the State government's position, saying UGC regulations are advisory and cannot override State laws unless adopted by the State.
- This confusion has made it difficult to resolve the issue.

Constitutional Issue: Can UGC Regulations Override State Laws?

- The core legal issue revolves around whether the UGC regulations, which are subordinate legislation (rules created under a central law), can override State laws (plenary laws passed by the State legislature). This issue is tied to Centre-State relations.
- o Article 254(1) of the Indian Constitution addresses situations where Central laws conflict with State laws. It says that if a State law conflicts with a Central law, the Central law will prevail. However, this rule applies to plenary laws (full laws passed by Parliament or State legislatures) and not to subordinate legislation (like UGC regulations).
- Key Legal Precedents: The Supreme Court has ruled in previous cases that subordinate legislation, such
 as UGC regulations, cannot override plenary State laws. The UGC can only issue advisory regulations for
 universities; it cannot enforce them on State universities unless the State adopts them.

Conflicting Supreme Court Rulings

- There have been some conflicting rulings by the Supreme Court:
 - In some cases, the Court has ruled that UGC regulations should be followed by State universities, arguing that they are mandatory once laid before Parliament.
 - In other cases, the Court has stated that UGC regulations are not mandatory for State universities unless the State adopts them
- This inconsistency in rulings has created confusion about the applicability of UGC regulations to State universities.

UGC's Overreach

- The UGC's regulations about Vice Chancellor appointments are seen as overreach. The UGC Act, 1956
 does not specifically deal with the appointment of VCs.
- The enactment of the UGC Act 1956 is traced to **Entry 66 of the Union list**. Section 26 of this Act allows UGC to make regulations.
- O **Union list** is one of the three lists on the **7th schedule of the Constitution**. State list and Concurrent list are the other two.
- According to Article 246, the central government has exclusive powers to make laws on the subjects in the Union list, while the state government can make laws on subjects in the State list.
- As for the **Concurrent list**, both central and state governments can enact laws listed under it. But if there is a conflict between the laws, the central law will override the state law
- The UGC's power is mainly advisory, and its regulations are meant to guide, not mandate.
- However, the UGC's insistence on including a nominee in the search committee reflects a shift towards more administrative control over universities, which the Tamil Nadu government sees as an erosion of autonomy.

THE CASE IN COLUMN TO A COLUMN

• What Needs to Happen Next?

- To resolve this issue, the matter needs to be clarified by the Supreme Court. The Court must decide
 - That UGC regulations are advisory for State universities unless adopted by the State.
 - That Article 254(1) of the Constitution applies only to conflicts between plenary laws, not subordinate legislation.
 - That UGC regulations do not automatically become part of the UGC Act just by being laid before Parliament.

University Grants Commission (UGC)

- The University Grants Commission (UGC) is a Statuary Body under Ministry of Education, Department of Higher Education.
- UGC came into existence on 28th December, 1953 by an Act of Parliament in 1956.
- The functions of the UGC are:
 - Planning and coordination of university education
 - Allocation of funds to higher educational institutions (HEIs)
 - Maintenance of academic standards
 - Regulation of the administration of HEIs
- Regulation of admission of students to HEIs

5. <u>US withdraws from Paris Climate Agreement</u> GS 2 (International Relations)

- Why in News: President Donald Trump signed an executive order to withdraw the United States from the Paris climate agreement once again, marking the second time he has made this move. This came on the same day he was sworn in for a second term.
- What is the Paris Climate Agreement?
 - The Paris climate agreement, established in 2015, is an international treaty aimed at fighting climate change by limiting global warming.
 - The primary goal is to keep global temperatures from rising more than 1.5 degrees Celsius (2.7°F) above pre-industrial levels, with an upper threshold of 2°C (3.6°F).
 - The agreement is voluntary, meaning countries set their own targets for cutting greenhouse gas emissions, which are primarily caused by the burning of fossil fuels such as coal, oil, and natural gas.

U.S. to withdraw from Paris agreement, expand drilling

The Republican leader vows to declare a 'national energy emergency' to expand drilling in the country; it would take a year to leave the agreement after submitting a formal notice to the UN

Agence France-Presse WASHINGTON

J.S. President Donald Trump's administration on Monday announced the United States' intention to withdraw from the Paris climate accord for a second time, a defant rejection of global efforts to combat planetary warming as catastrophic weather events

intensify worldwide.
The Republician leade
also said his administration
would declare a "nationa
energy emergency" to ex
pand drilling in the world'
top oil and gas produce
and scrap upcoming strin
gent pollution standard
for cars and trucks, which



Step back: Donald Trump is sworn in as the 47th President of th

ric vehicle mandate."

"President Trump wil
vithdraw from the Paris
dilimate Accord," the White
louse said in a statemen
hortly after the Republi
an was sworn into office

timeline.

It would take a year to ave the agreement after abmitting a formal notice to the United Nations franework that underpins lobal climate.

bolden other major polluters like China and India to scale back their own commitments.

It comes as global average temperatures over the past two years surpassed the critical 1.5°C warming threshold for the first time, underscoring the urgency of climate action.

pending and escalating nergy prices, and that is hy today I will also de lare a national energy mergency. We will 'Drill aby, drilli" Mr. Trum aid. "We will be a rich na on again, and it is that li uid gold under our fee nat will help to do it," he

- The Paris agreement aims for countries to make progressively more stringent commitments over time, with the next major deadline being February 2025, when nations are required to submit new plans to cut emissions. The Biden administration had proposed a 60% reduction in U.S. greenhouse gas emissions by 2035 before Trump's action to withdraw.
- Trump's decision mirrors his **2017 announcement** when he first stated the U.S. would exit the landmark climate deal.

6. <u>Life Imprisonment in RG Kar Rape-Murder Case</u> GS 2 (Judiciary)

• Why in News: Sanjoy Roy was sentenced to life imprisonment by a court in Sealdah, Kolkata, for the rape and murder of a junior doctor at the state-run RG Kar College and Hospital in August 2024. The case drew widespread public attention due to the brutal nature of the crime and Roy's position as a civic volunteer, which he exploited to commit the crime.

• Why Life Imprisonment Instead of Death Penalty

 Death Penalty Criteria: Although the crime was violent, the court concluded that it did not meet the "rarest of the rare" standard required for capital punishment in India. This standard is applied in cases that are exceptionally brutal or shocking. Mitigating, aggravating circumstances in death penalty cases



- Reform Potential: The defense successfully argued that the prosecution did not prove that Roy was
 incapable of reform. Indian law mandates that for a death penalty to be imposed, the convict must be
 shown to be beyond reform.
- Roy was found guilty under Bharatiya Nyaya Sanhita (BNS) sections 64 (rape), 66 (causing injury resulting in death of rape victim), and 103 (1) (murder).
- Section 103(1) provides for the death penalty or life imprisonment
- Section 66 provides for imprisonment of not less than 20 years, which may be extended to life
- Section 64 lays down imprisonment of not less than 10 years, which may extend to life in prison.

Legal Options for the Convict:

- Appeal by Sanjoy Roy: Roy has the right to appeal his conviction and sentence to the Kolkata High Court.
 He can challenge both the conviction and the life imprisonment sentence.
- o **Prosecution's Appeal:** The prosecution can also appeal to a higher court, possibly seeking an enhancement of the sentence to the death penalty. Since the case is being handled by the Central Bureau of Investigation (CBI), they could request the government to file an appeal based on the argument that the sentence is too lenient.
- Time Frame for Appeal: Any appeal filed against the sentence must be disposed of within six months, as
 per the provisions of the Bharatiya Nyaya Sanhita (BNS), which applies to cases under Sections 64 and
 66 (the sections Roy was convicted under).
- Death Penalty in India (Controversy and High-Profile Cases):
 - The death penalty is a contentious issue in India.
 - o The **2012 Nirbhaya gang-rape case** led to the execution of four convicts.
 - Another famous case involved Muthalagu's execution in 2004 for the murder of a family of five.
 - o The assassination of Indira Gandhi in 1984 also saw death sentences for the convicts.

7. <u>Understanding HMPV - A Well-Known but Recently Spotlighted Virus</u> GS 2 (Health)

Why in News: As anxieties about respiratory disease outbreaks like HMPV are understandable in the wake of the Covid19 pandemic, science-based communication and response become even more critical for all sections of society.

A Virus in

Introduction - HMPV in Context:

- Discovery and prevalence:
 - Human Metapneumovirus (HMPV), first detected in 2001, has been circulating in human populations for decades.
 - It is well-known to the medical community for its characteristics, prevention, and management.
- Current situation in India: Recent media attention has brought HMPV into focus, though detected cases remain within expected seasonal ranges and do not pose a significant threat.

Transmission and Symptoms of HMPV:

- Spread mechanism: HMPV spreads via droplets, infected surfaces, and physical contact such as handshakes.
- Incubation and symptoms:
 - Symptoms appear within 3-6 days of infection and include nasal congestion, sneezing, cough, breathlessness, fever, sore throat.
 - Severe cases, though rare, may affect infants, the elderly, and immunocompromised individuals.

Prevention and Management of HMPV:

- Precautionary measures: Key flu-season precautions:
 - Wearing masks.
 - Hand hygiene and avoiding face-touching.
 - Avoiding crowded areas, especially for vulnerable groups.
- Treatment: Symptomatic management includes:
 - Hydration, rest, warm fluids, paracetamol for fever.
 - Monitoring for severe symptoms like difficulty breathing or incessant coughing in high-risk groups.

India's Preparedness and Surveillance to Deal with HMPV:

- Health infrastructure: The Indian healthcare system is equipped to manage HMPV using RT-PCR (Real-Time Reverse Transcription – Polymerase Chain) tests, though testing is generally unnecessary for mild cases.
- Indian Council of Medical Research's (ICMR) role: Surveillance reveals HMPV caused approximately 3% of Influenza-Like Illness (ILI) and Severe Acute Respiratory Illness (SARI) cases this season.
- Virus trends: Seasonal trends in virus circulation are monitored; there is no evidence of mutations in HMPV.

Key Comparisons - HMPV vs. SARS-CoV-2:

- Differences:
 - HMPV, unlike the novel SARS-CoV-2 (first detected in 2019), is well-studied with decades of global exposure.
 - HMPV (Pneumoviridae family) and SARS-CoV-2 (Coronaviridae family) belong to two very different virus families with fundamentally different characteristics and epidemiology.
 - Unlike SARS-CoV-2, strong seasonality is seen for HMPV.
- o Severity: HMPV generally causes milder illness with minimal long-term effects, unlike SARS-CoV-2.

perspective

Anxieties about HMPV are understandable after
Covid. But it has been in circulation since 2001, our
health system is equipped to deal with it



Soumya Swaminathan and Harkabir Singh Jandu

FIRST DETECTED IN 2001, HMPV (Human netsparamoneus) is a visua from the fammetageneumoneus) is a visua from the famcioudation even ender in human populaions. Hence HMPV is well known to the medical community in terms of its chazacrestics, libers caused prevention, detertions and management, trather, many person and the properties of the control of the HMPV because it is a common virus. The virus just happens to move be jeded uply the media. The few cases of the HMPV decreted in finda during the current this seconare within the expected range and the control of the control of the virus of the second of the control of the virus of the control of the virus of the control of the virus of virus of

Letter with a smally papead from indecespeople through droplest, infected war less, and contact such as handshakes the typical period between infection and ippearance of symptoms is three to an index of the period of the period of the gas, Symptoms can include assal conleves, and some three states of the period ever, and some three states of the period of ever, and some three states of the period of ever, and some three states of the period of ever, and some three states of the period of ever, and some three states of the period of ever, and the period of the states of the every office of the period of the period of every office of the period of the period of every office of the period of the every office of the period of the peri

Meakened minione systems.

HMPV can be prevented by following
the usual precautions of the flu season.

Hese include wearing masks, avoiding
touching the face, frequently washing, ands, avoiding crowded places, espeially by the very young and the elderly,
in fact, routinely wearing masks could
help reduce many high-burden diseases
in India including seasonal flu, pneumonia, and tuberculosis.

The health system in India is fullsupported and with MFV. The virus or se descred through a routine RFV.Ct or service and through a routine RFV.Ct or service and through a routine RFV.Ct or size, Management of HeMFV is similar that of other response by visuses and proably revolves around symptomatic rais allow revolves around symptomatic rais full-unit, resting, and taking pasocierumlo hands produced the service of the service of the service and the service of th

We can say with a high degree of cor idence that the handful of cases of HMP that have been detected so far in Indi prignate not from outside the country be from within, as is expected during the winter months.

Using its country-wide lab-based surillance network, the Indian Council of edical Research (ICMR) has found that MWThas caused approximately 3 per cent the cases of influencial Belliness (III) and the cases of influencial Belliness (III) and the cases of influencial Belliness (III) and the cases of the cases of

Purther, there is no data to suggest that the circulating HMPV has mutated in any way that is of public health concern. ICMR and its institutes continue to track this asnert as well

Anxieties about respiratory disease outbreaks are understandable in the wake of the Covid 19 pandemic. Hence, cience-based communication and reponse become even more critical for all ections of society.

a 200 i. it was a truly novel virus for the world. At the time, one one in the world and been exposed to SABS-CoV-2 or had peck immunity again t. I. nocitrats, or perfect immunity again t. I. nocitrats, or perfect immunity again t. I. nocitrats, or well staudied. Hilly and SABS-CoV-2 elong to two very different virus famieristics and perfectionlessy, with strong esconality seen for HMPV unlike SABS-OV-2 both viruses case different exerticists and perfectionlessy, with strong esconality seen for HMPV unlike SABS-OV-2 both viruses case different exertions and the affected population eggenests do not fully overlap. HMPV in period causes midder tilness with deaths viral symptoms.

in this symptomic control of the family includes Ministry of Health & Family helder has also prompt action during this period of the family helder has also prompt action during this period of the family for the Covid 19 anderine; LNR and the National Centrelor Essare Control (NDC) are closely monitoring surveillance data across the country. The stational and state governments are also mornimum cating proactively. We should use the control of the control of the communicating spotential of the control of the cont

ulent outbreak in the hunse. The Nith Alogy published its framework report on future pandemic preparedness and emergency response in Mugust 2024. The recommendations of this report with the recommendations of this report within consecution of the proper of the report of the report

Friding, an poliution significantly exactbates respiratory illnesses, including ILLI ad SARI, and is one of the leading drivers of iortality globally. It's time we swiftly and fectively act on air pollution across the ountry through a multi-sectoral and all-ofwernment approach.

Swaminathan is chairperson, M S Swaminathan Research Foundation, nennai, and principal advisor, MOHFW.

• Lessons from the Pandemic:

o **Government action:** Proactive surveillance by the Ministry of Health, ICMR, and National Centre for Disease Control (**NCDC**) builds confidence in handling outbreaks.

Preparedness goals:

- Recommendations from NITI Aayog's 2024 report stress pandemic readiness through investments in R&D for vaccines and strengthening emergency response mechanisms, which have been identified by the WHO.
- This will help India to be fully prepared for future outbreaks, epidemics from known and emerging infections.
- **Environmental considerations:** Air pollution exacerbates respiratory illnesses like ILI and SARI, highlighting the urgency for a national, multi-sectoral response.

• Conclusion - Stay Alert, Not Alarmed:

- HMPV cases in India are no cause for panic, given the virus's well-understood nature and manageable impact.
- o **Proactive communication, robust surveillance, and addressing environmental drivers** like air pollution remain critical for public health.



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