

Topics



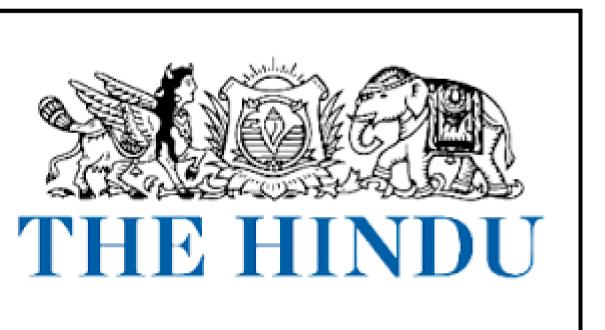
- .Methane
- Mount Ruang
- Why do we shiver when it is cold?
- Expanded Programme on **Immunization (EPI)**
- street vendor act
- Wealth Distribution
- Mains

By saurabh pandey sir











Target Mains 2024/25 - essay topic Q'Wealth distribution is not the only way to reduce inequality "Discuss Q'धन वितरण असमानता को कम करने का एकमात्र तरीका नहीं है''चर्चा करें

send your answer - Saurabh pandey upsc telegram channel







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Microbes, not fossil fuels, produced most new methane: study

A modelling study has found methane emissions from fossil fuels declined between 1990 and the 2000s and have been stable since, whereas microbes have been producing more methane of late. One reason could be an increase in cattle-rearing in Latin America and more emissions from waste in South and Southeast Asia

Monika Mondal

or the last three years, Naveen Chandra has been spending most of his days running simulations at the Research Institute for Global Change in Japan. He is trying to recreate the last 50 years of the earth's atmosphere on a supercomputer roughly the size of an auditorium.

Mr. Chandra has been trying to answer a question that came out of his team's research. During 2019-2020, these researchers examined the concentration of methane in the atmosphere and how it changed with time. Until the 1990s, the concentration increased, then stabilised for a bit, and then started to increase again around 2007. According to recent estimates, the atmospheric concentration of methane today is three-times what it was 300 years ago.

Where is this methane coming from? That's what they wanted to know.

Evolving understanding

Methane is the second most abundant anthropogenic greenhouse gas after carbon dioxide (CO2) but it warms the planet more. Over a century, methane has a global warming potential 28-times greater than CO2, and even higher over shorter periods like two decades. It wasn't until recently that

policymakers began to focus on methane vis-a-vis addressing global warming. At the U.N. climate talks in 2021, member countries launched the 'Global Methane Pledge' to cut the gas's emissions and slow the planet's warming. Yet our understanding of methane also continues to evolve.

For instance, Mr. Chandra and his team recently reported that microbes have been the biggest sources of methane in the atmosphere, not the burning of fossil fuels.

The sources of methane

Scientists are increasingly recognising various sources of methane, most of which fit in two categories: biogenic and thermogenic. When fossil fuels such as natural gas or oil are extracted from deep within the earth's crust, thermogenic methane is released. Biogenic methane comes from microbial action.

The microbes that produce methane are archaea – single-celled microorganisms distinct from bacteria and eukaryotes – and are called methanogens. They thrive in oxygen-deficient environments, such as the digestive tracts of animals, wetlands, rice paddies, landfills, and the sediments of lakes and oceans.

Methanogens play a crucial role in the



A cow walks through a field as an oil pumpjack and a flare burn off methane and other hydrocarbons in the background in the Permian Basin, Texas. Methanogenic bacteria thrive in oxygen-deficient environments, including the digestive tracts of animals. AP

According to recent estimates, the

methane today is three-times what

fossil fuels or geological activities, there

Mr. Chandra and Mr. Patra worked

with scientists from Austria, Japan, the

from the 12 monitoring sites worldwide

tracking atmospheric parameters since

the 1990s. Then they sorted the methane

isotope data by year and ran it through a

program they had developed to recreate

the atmosphere from 1980 to 2020 on a

four to five hours," Mr. Chandra said.

Finally, the team compared their own

"One year of data analysis takes about

Netherlands, and the U.S. to collect data

will be more carbon-13 atoms in 1.000

atmospheric concentration of

it was 300 years ago

molecules.

upercomputer

Data mismatch

global carbon cycle by converting organic matter into methane. While methane is a potent greenhouse gas, its production by methanogens is an essential part of natural ecosystems. But human activities like agriculture, dairy farming, and fossil fuel production have further increased methane emissions.

Both biogenic and thermogenic activities produce different isotopes of methane. Tracking the isotopes is a way to track which sources are the most active.

Modelling with a supercomputer According to Prabir Patra, principal scientist at the Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and one of the lead authors of the study, carbon-13 is key. (Atoms of this

carbon isotope have 13 nucleons: 6 protons + 7 neutrons.) If there are fewer carbon-13 atoms than a certain level in a group of 1,000

methane molecules, the methane is from a biological source. If the methane is from thermogenic sources, such as trapped called EDGAR and GAINS, and found some discrepancies. EDGAR had reported that methane emissions from oil and natural gas exploration had increased between 1990 and 2020. GAINS had recorded a large "unconventional" rise in emissions since 2006. Their findings disagreed with both inventories. Mr. Patra said combining the numbers

results with two emissions inventories,

for all biogenic and thermogenic isotopes should match the total emissions in a year. They also took insights from other available data like, number of rice fields, wetlands, dairy farms, biomass burning and likewise sources of methane emissions, and estimated the emissions from those sources. But when they ran their atmosphere models with this data, the year-wise total methane emissions overshot the total production.

In fact, the models said methane emissions from fossil fuels declined between 1990 and the 2000s and that they've been stable since. They also found microbes were producing more methane than fossil fuels.

Need for local data

One possible reason could be an increase in cattle-rearing in Latin America and more emissions from waste in South and Southeast Asia, Latin America, and Africa, the study's authors wrote in their paper. They added that the number of wetlands worldwide had increased as well.

Studies in the past have pointed to microbes like anaerobic archaea as potentially top contributors of atmospheric methane using satellite data. But according to Mr. Patra, "Most studies that use satellites cannot measure the actual [changes over time] of methane." Satellite data is interpreted using models "and thus are prone to uncertainties." He said ground models are required to confirm these interpretations.

He added that their own atmospheric model was also only the beginning. The data for it came from observatories located in far-flung places. "If you really want to ask what is from the wetland, what is from the rice fields, we need measurements in those exact locations," per Mr. Patra. "We don't have that kind of observation at all anywhere in the world to make that kind of measurement. We can only speak for global emissions."

But what we do know is: "If you want to reduce methane, anthropogenic activity should be first controlled. And we can clearly outline what is anthropogenic here. Waste and landfills, rice fields, enteric fermentation, oil and gas, and coal," he said.

(Monika Mondal is a freelance science and environment journalist.)

THE GIST

Methane is the second most abundant anthropogenic greenhouse gas after carbon dioxide but it warms the planet more. Over a century, methane has a global warming potential 28-times greater than CO2

Methane is released by two main processes: biogenic and thermogenic. When fossil fuels are extracted from the earth's crust, thermogenic methane is released. Biogenic methane comes from microbial action

Studies in the past have pointed to microbes like anaerobic archaea as potentially top contributors of atmospheric methane using satellite data, but this information contains gaps that ground-based models can bridge





.Methane

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METHANE (CH₄)

Methane emissions caused by human activities are one of the most significant drivers of climate change. Methane is also the main precursor of tropospheric ozone, a powerful greenhouse gas and air pollutant.

SOURCES

Methane is one of the fastest growing greenhouse gases in the atmosphere. Human activity causes 2/3 of emissions.





VAST

OTHER



IMPACTS

CLIMATE

Increasing emissions are driving a rise in tropospheric ozone air pollution, which causes 1+ million premature deaths annually. Methane is responsible for roughly 1/2 of these deaths.

annual

Responsible for 40% of warming

since the industrial revolution

times more powerful than

carbon dioxide over a

20-year period

Respiratory diseases Heart disease Damaged airways and lung tissue

AGRICULTURE & ECOSYSTEMS





LIFETIME IN ATMOSPHERE: 12 YEARS

Since methane does not last long in the atmosphere, efforts to reduce it will bring immediate benefits for the climate and human health.

www.ccacoalition.org/methane

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The Hindu analysis by saurabh pandey sir



% = global emissions



The sources of methane

- Scientists are increasingly recognising various sources of methane, most of which I fit in two categories: biogenic and thermogenic.
- When fossil fuels such as natural gas or oil are extracted from deep within the earth's crust, thermogenic methane is released. • Biogenic methane comes from microbial action.
- The microbes that produce methane are archaea single-celled microorganisms distinct from bacteria and eukaryotes – and are called methanogens.
- They thrive in oxygen-deficient environments, such as the digestive tracts of animals, wetlands, rice paddies, land Ills, and the sediments of lakes and oceans.



- Methanogens play a crucial role in the global carbon cycle by converting organic matter into methane.
- While methane is a potent greenhouse gas, its production by methanogens is an essential part of natural ecosystems.
- But human activities like agriculture, dairy farming, and fossil fuel production have further increased methane emissions.
- Both biogenic and thermogenic activities produce different isotopes of methane.
- Tracking the isotopes is a way to track which sources are the most active.

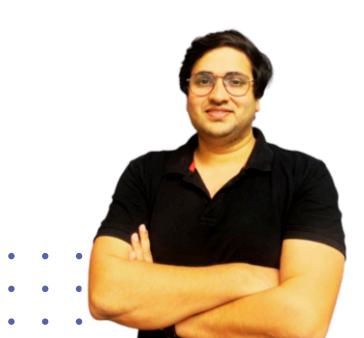


BIG SHOT



Mount Ruang seen erupting from Tagulandang island in Sitaro, North Sulawesi, on Tuesday. Ruang's eruption prompted authorities to order an evacuation and forced a nearby airport to close. The remote Indonesian volcano sent a tower of ash spewing into the sky on April 19. AFP





Mount Ruang

Mount Ruang seen erupting from Tagulandang island in Sitaro, North Sulawesi,

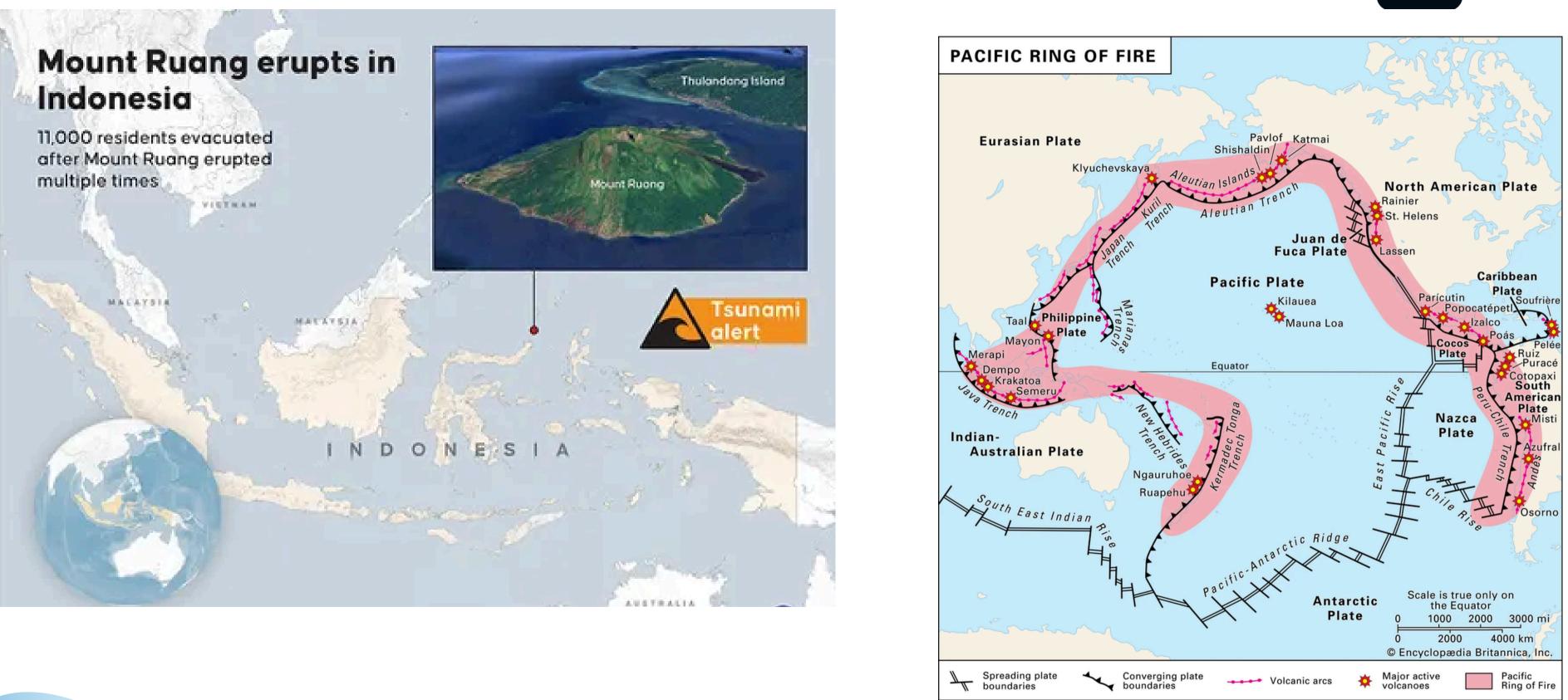
Indonesia volcano

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500 km











QUESTION CORNER

Shivering produces heat to keep you warm

Q:Why do we shiver when it is cold? A: Shivering (physical thermogenesis) occurs when the tension of the

skeletal muscles rises beyond a critical level or when the body temperature falls below the critical level of 37.1 degrees C.

Shivering is actually an involuntary contraction of muscles to maintain body temperature during fever and in cool environments. It involves oscillating skeletal-muscle contractions that occur at 10-20 per second. The movement is at first irregular, then assumes quick involuntary movements during which small groups of muscles contract asynchronously. Due to the asynchronous movement, they do not move the parts associated with them in a coordinated manner.

The posterior hypothalamus region in the brain harbours the primary motor centre responsible for shivering. When the body temperature falls below 37.1 degrees C, the skin sends cold signals to the spinal cord. These are picked by the hypothalamus, which takes advantage of the fact that increased skeletal-muscle activity generates heat. Acting through descending pathways that terminate on the motor neurons controlling the body's skeletal muscles, the hypothalamus gradually increases



EGOR IVLEV/UNSPLASH

skeletal-muscle tone (constant level of tension within muscles).

Thus shivering begins throughout the body when the tension of the skeletal muscles rises beyond the critical level, producing heat and increasing the temperature of the body within a matter of seconds. Studies reveal that shivering may produce as much as 42.5 cal/hr, almost seven times greater than man's normal resting metabolism at room temperature. In a resting person, most body heat is produced by the thoracic and abdominal organs due to ongoing metabolic activities. Generally, shivering is seen only in birds and mammals.

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







Why do we shiver when it is cold?

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Make EPI an 'Essential Programme on Immunisation'

he year 2024 marks a significant milestone for immunisation programmes, both globally and in India. It commemorates 50 years since the launch of the Expanded Programme on Immunization (EPI) by the World Health Organization (WHO) in 1974. The EPI was introduced as the eradication of smallpox virus was on the horizon, and a need to leverage the then immunisation infrastructure and a trained workforce was recognised to expand the benefit of available vaccines. Following the announcement, nearly every country across the world initiated its national immunisation programme. India launched the EPI in 1978. which was later renamed as the Universal Immunization Programme (UIP) in 1985. In India this year is also two decades since the country conducted the last nationwide independent field evaluation of the UIP, in collaboration with international experts. This is an opportune moment to assess the progress made and envision the future.

Globally, and in India, there has been significant progress in terms of the impact of immunisation and vaccines. While in 1974, there were vaccines to prevent six diseases, five decades later, there are vaccines against 13 diseases which are universally recommended; and vaccines against 17 additional diseases are recommended for a context-specific situation. There is research in progress to develop vaccines against nearly 125 pathogens – many would prevent diseases prevalent in low- and middle-income countries.

A success story

The children with three doses of DPT, a tracer indicator of coverage, has been rising over these years. In the early 1970s, around 5% of children in low- and middle-income countries had received three doses of DPT, which increased to 84% in 2022 at the global level. Smallpox has been eradicated, polio eliminated from all but two countries and many vaccine preventable diseases have nearly disappeared. In India, the coverage has increased every passing year and in 2019-21, 76% of children received the recommended vaccines.

Since the launch of EPI, studies have shown that vaccines have saved millions of lives and prevented billions of hospital visits and hospitalisations. Economic analyses have estimated that vaccines are highly cost-effective interventions, with every single dollar (or rupee) of expenditure on vaccination programmes ensuring a seven to 11-fold return.

In nearly all low- and middle-income countries, including India, the immunisation programme remains a success among all government initiatives, nearly always with far greater coverage than any other health programme.

Moreover, in mixed health systems with both the public and private sector delivering services, immunisation often remains the only health



<u>Dr. Chandrakant</u> Lahariya

a medical doctor, has 15 years of work experience with the World Health Organization in its India Office, Regional office for Africa, Brazzaville, and Headquarters in Geneva



<u>Dr. Rakesh</u> <u>Kumar</u>

a medical doctor, is a former Joint Secretary, Reproductive and Child Health, Ministry of Health and Family Welfare, Government of India, and also a global health expert. He is the CEO of Wadhwani Initiative for Sustainable Healthcare (WISH), India

of the Expanded Programme on Immunization, it is time for another expansion

In the 50 years

intervention with greater utilisation from the government sector. For instance, in India, the share of the private sector in overall health services is nearly two thirds; however, nearly 85% to 90% of all vaccines are delivered from government facilities. Experts often argue that the immunisation coverage is a tracer indicator of the possible highest coverage any government intervention can achieve in a given setting.

Yet, it is not without challenges. In early 2023, the UNICEF's 'The State of the World's Children' report revealed a concerning trend: for the first time in more than a decade, the childhood immunisation coverage had declined in 2021. In 2022, globally, an estimated 14.3 million children were zero dose (did not receive any recommended vaccine) while another 6.2 million children were partially immunised. Over the years, the vaccination coverage in India has increased, both nationally and State-wise. However, there are persisting inequities in coverage by geography, socio-economic strata and other parameters, which demand urgent interventions

From childhood focus to life course

It is interesting that when it comes to vaccination people often (and wrongly) believe that the vaccines are only for children only. The truth is that in nearly 225 years since the availability of the first vaccine against smallpox in 1798, vaccines have always been available for individuals of all age groups, including adults. The first anti rabies vaccine, cholera, and typhoid vaccines developed between 1880s to mid 1890s were primarily for adults. The first vaccine ever developed in any part of the world against plague (in 1897) was from India and meant for individuals across all age groups. The BCG vaccine (against tuberculosis) was first introduced in a nationwide campaign in 1951 and was also administered to the adult population. Influenza vaccines have always been administered to adults and children alike. This history clearly illustrates that vaccines have always been intended for individuals of all age groups.

However, considering that children are most vulnerable from vaccine-preventable diseases, they have rightly been prioritised for vaccination. A few decades ago, the supply of vaccines was limited, and the financial resources and trained workforce that governments had were scarce. Thus, vaccines were aimed to be delivered to the population groups which would benefit from them the most – children.

However, in the last five decades, things have changed for the better. With increased vaccine coverage, children are better protected. However, diseases that are preventable with vaccines are increasingly becoming common in the adult population. Therefore, it becomes imperative that government policies now focus on the vaccination of adults and the elderly, as well, as is happening in many countries. For better coverage of adult vaccines, we can learn from the past and five decades of the EPI. First, there are some initial policy and technical discussions regarding expanding immunisation coverage in additional populations. The recent announcement on HPV vaccines for teenage girls is a good start.

However, the Indian government needs to consider providing recommended vaccines for a wider section of adults and elderly population. Considering that vaccines are highly cost effective, once recommended by the National Technical Advisory Group on Immunization (NTAGI), vaccines for all age groups should be made available as free at the government facilities.

Second, the NTAGI in India, which provides recommendations on the use of vaccines should start providing recommendations on the use of vaccines in adults and the elderly. We need to remember that once a vaccine is recommended by the government body, the coverage is likely to be far greater than if the vaccines are not recommended by the government.

Third, the prevailing myths and misconceptions about vaccines must be proactively addressed to tackle vaccine hesitancy. The government must consider the help of professional communication agencies to dispel myths (and in a layperson's language and with the use of social media). This also requires citizens to learn and educate themselves about these vaccines from reliable sources.

Fourth, various professional associations of doctors – community medicine experts, family physicians and paediatricians should work to increase awareness about vaccines among adults and the elderly. Physicians treating patients with any disease should use the opportunity to make them aware of vaccines.

Fifth, medical colleges and research institutions should generate evidence on the burden of diseases in the adult population in India.

There are studies which have noted that the introduction of new vaccines in national programmes contributes to increased coverage of all existing vaccines. Therefore, it is likely that expanding coverage of vaccines for adults and the elderly may result in improved coverage with childhood vaccines and reduced vaccine inequities. India's EPI has made major progress and it is arguably a time for another independent national level review of the UIP in India, engaging key partners and international experts.

In late 2023, India launched a pilot initiative of adult BCG vaccination as part of efforts to 'end TB' from India. The COVID-19 vaccination of the adult population has made the public sensitized to the need for and the benefits of adult vaccination. This is a right opportunity to start a new journey of adult vaccination in India. In the 50 years of the EPI, it is time for another expansion of the programme with focus on zero dose children, addressing inequities in vaccine coverage and offering vaccines to adults and the elderly. It is time to make EPI an 'Essential Program on Immunization'.





Expanded Programme on Immunization (EPI)

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- In India, this year is also two decades since the country conducted the last nationwide independent Field evaluation of the UIP, in collaboration with international experts.
- This is an opportune moment to assess the progress made and envision the future.
- Globally, and in India, there has been significant progress in terms of the impact of immunisation and vaccines.
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Implementing the Street Vendors Act

decade has passed since the Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act came into effect on May 1, 2014, marking a significant milestone after nearly four decades of legal jurisprudence and the tireless efforts of street vendor movements across India. Celebrated as a progressive legislation, the Act now faces numerous challenges in its implementation. Looking back, the mere enactment of a law did not ensure the protection and security of street vendors in Indian cities; there was much to be desired in its execution.

Provisions of the law

Street vendors, estimated to constitute 2.5% of any city's population, play multifaceted roles in city life. Local vegetable sellers and food vendors are essential providers of daily services. Vending offers many migrants and the urban poor a source of modest yet consistent income. The vendors also make city life affordable for others by providing vital links in the food, nutrition, and goods distribution chain at reasonable prices.

Street vendors are also integral to Indian culture - imagine Mumbai without its vada pav or Chennai without its roadside dosai. The law was enacted to acknowledge this reality. It aimed to 'protect' and 'regulate' street vending in cities, with State-level rules and schemes, and execution by Urban Local Bodies (ULBs) through by-laws, planning, and regulation. The Act clearly delineates the roles and responsibilities of both vendors and various levels of government. It recognises the positive urban role of vendors and the need for livelihood protection. It commits to accommodating all 'existing' vendors in vending zones and issuing vending certificates. The Act establishes a participatory governance structure through Town Vending Committees (TVCs)



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Shalini Sinha is the Asia strategist at the Urban Policies

Program, WIEGO (Women in Informal Employment: Globalizing and Organizing). Views are personal

Celebrated as a progressive legislation, the Act now faces numerous challenges in its implementation

and mandates that street vendor representatives must constitute 40% of TVC members, with a sub-representation of 33% of women street vendors. These committees are tasked with ensuring the inclusion of all existing vendors in vending zones. Additionally, the Act outlines mechanisms for addressing grievances and disputes, proposing the establishment of a Grievance Redressal Committee chaired by a civil judge or judicial magistrate. Its provisions set a crucial precedent for inclusive and participatory approaches to address street vending needs in cities, at least in theory.

Three broad challenges

However, the Act has faced three broad challenges. First, at the administrative level, there has been a noticeable increase in harassment and evictions of street vendors, despite the Act's emphasis on their protection and regulation. This is often due to an outdated bureaucratic mindset that views vendors as illegal entities to be cleared. There is also a pervasive lack of awareness and sensitisation about the Act among state authorities, the wider public, and vendors themselves. TVCs often remain under the control of local city authorities, with limited influence from street vendor representatives. And the representation of women vendors in TVCs is mostly tokenistic.

Second, at the governance level, existing urban governance mechanisms are often weak. The Act does not integrate well with the framework established by the 74th Constitutional Amendment Act for urban governance. ULBs lack sufficient powers and capacities. Schemes like the Smart Cities Mission, laden with resources and pushed through as policy priorities from the top-down, mostly focus on infrastructure development and ignore the provisions of the Act for the inclusion of street vendors in city planning.

Third, at the societal level, the

prevailing image of the 'world class city tends to be exclusionary. It marginalises and stigmatises street vendors as obstacles to urban development instead of acknowledging them as legitimate contributors to the urban economy. These challenges are reflected in city designs, urban policies, and public perceptions of neighbourhoods.

The way forward

While the Act is progressive and detailed, its implementation requires support, possibly (and ironically) necessitating top-down direction and management starting from the Ministry of Housing and Urban Affairs. This needs to be decentralised over time to ensure effectiveness in addressing the diverse needs and contexts of street vendors nationwide, PM SVANidhi, a micro-credit facility for street vendors, has been a positive example in that direction. There is a strong need to decentralise interventions, enhance the capacities of ULBs to plan for street vending in cities, and move away from high-handed department-led actions to actual deliberative processes at the TVC level. Urban schemes, city planning guidelines, and policies need to be amended to include street vending.

The Act now faces new challenges such as the impact of climate change on vendors, a surge in the number of vendors. competition from e-commerce. and reduced incomes. The Act's broad welfare provisions must be used creatively to meet the emerging needs of street vendors. The sub-component on street vendors in the National Urban Livelihood Mission needs to take cognisance of the changed realities and facilitate innovative measures for addressing needs. The case of the Street Vendors Act highlights the complex interplay of contestation over space, workers in urban areas, and governance, offering valuable lessons for future lawmaking and implementation.

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STREET VENDORS ACT



Street Vendors Act 2014 mandates that town vending committees frame a plan for vending covering elements such as criteria for earmarking no-vending zones, restricted zones, vending zones, and natural markets

GREY AREAS No vending plan No published charter ID cards not provided to all street vendors



28 TOWN VENDING COMMITTEES NOTIFIED BY GOVT

- Corporations to start identifying hawkers soon
- Hawkers to be given vending certificates to prevent any harassment against them

Government mulling to give them kiosks with garbage disposal and solar light system

Hawkers displaced in last few years can also apply for space for shops

5% of city's pollution is estimated to be caused by street vendors



The Hindu analysis by saurabh pandey sir

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DEMANDS OF STREET VENDORS FEDERATION





Current affairs plus **Starting 1st may**

- PIB
- YOJANA
- Down to earth
- Major Newspaper
- science daily
- GES REPORTER
- Physics.org



Content from 1st may 2024 -to 1st May 2025

MUST FOR UPSC 2025 ASPIRANTS

About the redistribution of wealth

What is the debate surrounding the redistribution of wealth that has piqued interest during the ongoing election campaigns? Where does it fit in the constitutional framework? How has the judiciary ruled on the topic from the start?

EXPLAINER

Rangarajan. R

The story so far: here have been heated exchanges between the ruling government and the Opposition with respect to the redistribution of wealth during the ongoing election campaign. The Suprem Court has also constituted a nine-judge Bench to interpret the Directive Principles of State Policy (DPSP) with respect to ownership and control of material resources.

What does the Constitution provide? The Preamble to the Constitution aims to secure to all citizens social and economic justice, liberty and equality. Part III of the Constitution lists down the fundamental rights that guarantee liberty and equality while Part IV contains the DPSP. These are principles that the central and State governments should follow to achieve social and economic justice in our country. Unlike the fundamental rights in Part III, the DPSP is not enforceable in court. They are nevertheless fundamental in the governance of the country. Article 39(b) and (c) in Part IV contain principles that are aimed at securing economic justice. They provide that ownership and control of material resources of the society should be distributed to serve the common good and that the operation of the economic system does not result in concentration of wealth to the common detriment.

What is the historical context? The Constitution originally guaranteed right to property as a fundamental right under Article 19(1)(f). It provided under Article 31 that the state shall pay compensation in case of acquisition of private property. It is pertinent to note that at the time of independence, the main property rights related to agricultural and other land. The government had to acquire the rights in such estates for carrying out land reform: and construction of public assets. Considering the inadequate resources with the government and in order to provide greater flexibility in acquiring land for public welfare, various amendments were carried out curtailing the right to property. Notable among them are exceptions under Articles 31A, 31B and 31C that are briefly explained in Table 1.

The Supreme Court in various cases has interpreted the relationship between fundamental rights and the DPSP. Most of these cases were against constitutional amendments made by the state that curtailed the right to property that was then a fundamental right. In the Golak Nath case (1967), the Supreme Court held that fundamental rights cannot be abridged or diluted to implement DPSP. Finally, in the *Kesavananda Bharati* case (1973), a thirteen-judge Bench of the Supreme Court upheld the validity of Article 31C but made it subject to judicial review. In the Minerva Mills case (1980), the Supreme Court ruled that the Constitution exists on a harmonious balance between fundamental rights and DPSP

In 1978, in order to avoid excessive litigation directly in the Supreme Court by the propertied class, the 44th amendment act omitted right to property as a fundamental right and made it a constitutional right under Article 300A. The right to private property continues to be an important constitutional cum legal right. Any law to acquire private property



At the time of independence, the main property rights were related to agricultural and other land. The government had to acquire the rights in such estates for carrying out land reforms and construction of public assets. ISTOCKPHOT

Exceptions to fundamental rights

Considering the inadequate resources with the government and to provide greater flexibility in acquiring land for public welfare, various amendments were carried out curtailing the right to property. Notable among them are exceptions under Articles 31A, 31B and 31C

Article	Amendment & year	Brief explanation
31A	1st amendment, 1951	Provided that laws made for acquisition of estates etc. shall not be void on the ground that it violated fundamental rights including right to property
31B	1st amendment, 1951	Made laws placed under the Ninth Schedule immune from judicial review on the grounds of violating any fundamental right. In Coelho case (2007), the SC held that laws placed in Ninth Schedule after April 1973 would be subject to judicial review
31C	25th amendment, 1971	Provided primacy to the DPSP under Articles 39(b) and (c). Laws made to fulfit these principles shall not be void on the ground that it violated fundamental rights including right to property

by the state should be only for a public purpose and provide for adequate compensation

What is the current debate?

Indian governments in the first four decades after independence followed a "socialistic model" of economy. There were many laws made by the Čentre and States to acquire land from zamindars and big landlords for public purpose. The economic policies resulted in the nationalisation of banking and insurance, extremely high rates of direct taxes (even up to 97%), estate duty on inheritance, tax on wealth etc. There were also regulations that placed restrictions on growth of private enterprise like The Monopolies and Restrictive Trade Practices Act, 1969 (MRTP Act). The rationale behind these measures during those times was to reduce inequality and redistribute wealth among the poorer sections who constituted majority of the population. However, such measures stifled growth and also resulted in the concealment of income/wealth. Taxes like estate duty and wealth tax generated

revenue that was much less than the cost incurred in administering them. The nineties saw the country move from a closed economy towards liberalisation, globalisation and privatisation. A new industrial policy was unveiled in July 1991 with the objective of empowering market forces, improving efficiency and rectifying deficiencies in the country's industrial structure. The MRTP Act was repealed and replaced with policies of extremely high tax rates, estate the Competition Act, 2002 and income tax rates were reduced considerably. Estate duty was abolished in 1985 and wealth tax in 2016. The market driven economy has resulted in additional resources for the government that has helped in bringing people out of abject poverty. This

omic system, nonetheless, has also resulted in growing inequality. A report by the World Inequality Lab states that the top 10% of the country's population have a share of 65% and 57% of the wealth our Constitution. and income respectively as of 2022-23. The bottom 50% on the other hand have a meagre share of 6.5% and 15% of the wealth and income respectively.

The Gist

The Preamble to the Constitution aims to secure to all citizens social and economic justice, liberty and equality. Part III of the Constitution lists down the fundamental rights that guarantee liberty and quality while Part IV contains the Directive Principles of State Policy that talks about ownership and control of naterial resources. These are principles that the central and State governments should follow to achieve social and economic justice in ou country.

The Supreme Court in various cases has interpreted the relationship between fundamental rights and the DPSP. In 1978, in order to avoid excessive litigation directly in the Supreme Court by the propertied class, the 44th amendment act omitted the right to property as a fundamental right and made it a constitutional right under Article 300A

The Supreme Court has now constituted a nine-judge Bench to interpret the Directive Principles of State Policy

Sabha elections of the Congress, the principal Opposition party, promises various measures for the poorer sections including payment of ₹1 lakh per annum to a woman from every poor family. Rahul Gandhi had also mentioned in his campaign that there would be a financial survey to ascertain the distribution of wealth among the people in the country and address the issue of inequality. The ruling party campaigners led by the Prime Minister have targeted the Opposition on this matter. They claim that the Opposition, if voted to power, would bring back inheritance tax laws that would tax even the poorer sections. The Supreme Court meanwhile has constituted a nine-judge Bench to interpret whether material resources under Article 39(b) include private sources as well.

The manifesto for the current Lok

What can be the way forward? It is not just in India, but growing inequality is a worldwide problem of a liberalised open-market economic system. However, it is the responsibility of the government to protect the interest of the poorer classes who are most dependant on the state machinery for their livelihood. At the same time past duty, wealth tax etc., did not achieve their desired goals. Instead, they only led to concealment of income and wealth. Innovation and growth should not be curtailed but the benefits of growth should reach all sections especially the marginalised. The policies may vary and need to be framed after adequate debate in line with current economic models. The underlying principle to be achieved nevertheless remains the same economic justice for all as enshrined in

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Wealth Distribution

 The Supreme Court has also constituted a nine-judge Bench to interpret the Directive Principles of State Policy (DPSP) with respect to ownership and control of material resources. What does the Constitution provide?

• The Preamble to the Constitution aims to secure to all citizens social and economic justice, liberty and equality.

• Part III of the Constitution lists down the fundamental rights that guarantee liberty and equality while Part IV contains the DPSP.





- These are principles that the central and State governments should follow to achieve social and economic justice in our country.
- Unlike the fundamental rights in Part III, the DPSP is not enforceable in court.
- They are nevertheless fundamental in the governance of the country.
- Article 39(b) and (c) in Part IV contain principles that are aimed at securing economic justice.
- They provide that ownership and control of material resources of the society should be distributed to serve the common good and that the operation of the economic system does not result in concentration of wealth to the common detriment. The Hindu analysis by saurabh pandey sir



What is the historical context?

- The Constitution originally guaranteed right to property as a fundamental right under Article 19(1)(f).
- It provided under Article 31 that the state shall pay compensation in case of acquisition of private property.
- It is pertinent to note that at the time of independence, the main property rights related to agricultural and other land.
- The government had to acquire the rights in such estates for carrying out land reforms and construction of public assets.
- Considering the inadequate resources with the government and in order to provide greater **D**Flexibility in acquiring land for public welfare, various amendments were carried out curtailing the right to property.



- The Supreme Court in various cases has interpreted the relationship between fundamental rights and the DPSP. Most of these cases were against constitutional amendments made by the state that curtailed the right to property that was then a fundamental right.
- In the Golak Nath case (1967), the Supreme Court held that fundamental rights cannot be abridged or diluted to implement DPSP.
- Finally, in the Kesavananda Bharati case (1973), a thirteen-judge Bench of the Supreme Court upheld the validity of Article 31C but made it subject to judicial review.



- In the Minerva Mills case (1980), the Supreme Court ruled that the Constitution exists on a harmonious balance between fundamental rights and DPSP.
- In 1978, in order to avoid excessive litigation directly in the Supreme Court by the propertied class, the 44th amendment act omitted right to property as a fundamental right and made it a constitutional right under Article 300A.
- The right to private property continues to be an important constitutional cum legal right.
- Any law to acquire private property by the state should be only for a public purpose and provide for adequate compensation.



Exceptions to fundamental rights

Considering the inadequate resources with the government and to provide greater flexibility in acquiring land for public welfare, various amendments were carried out curtailing the right to property. Notable among them are exceptions under Articles 31A, 31B and 31C

	Article	Amendment & year	Brief explanation
	31A	1st amendment, 1951	Provided that laws made for not be void on the ground the rights including right to pro
	31B	1st amendment, 1951	Made laws placed under the judicial review on the groun right. In Coelho case (2007) Ninth Schedule after April 19 review
	31C	25th amendment, 1971	Provided primacy to the DP Laws made to fulfil these pr ground that it violated fund to property



or acquisition of estates etc. shall hat it violated fundamental operty

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PSP under Articles 39(b) and (c). rinciples shall not be void on the damental rights including right

What can be the way forward?

- It is not just in India, but growing inequality is a worldwide problem of a liberalised open-market economic system.
- However, it is the responsibility of the government to protect the interest of the poorer classes who are most dependant on the state machinery for their livelihood.
- At the same time past policies of extremely high tax rates, estate duty, wealth tax etc., did not achieve their desired goals.
- Instead, they only led to concealment of income and wealth.
- Innovation and growth should not be curtailed but the benefits of growth should reach all sections especially the marginalised.
- The policies may vary and need to be framed after adequate debate in line with current economic models.



Breaking free



Demolition drive: Workers dismantle a Soviet-era monument to the Pereiaslav Agreement on Ukraine-Russia union, in Kyiv on Tuesday. AFP





Pereyaslav Agreement,

- Pereyaslav Agreement, (Jan. 18 [Jan. 8, Old Style], 1654), act undertaken by the rada (council) of the <u>Cossack</u> army in <u>Ukraine</u> to submit Ukraine to Russian rule, and the acceptance of this act by emissaries of the Russian <u>tsar</u> Alexis; the agreement precipitated a war between Poland and <u>Russia</u> (1654–67).
- The hetman of the Zaporozhian Cossacks, <u>Bohdan Khmelnytsky</u>, had been leading a revolt against Polish rule in Ukraine since 1648.







- In 1651, in the face of a growing threat from Poland and forsaken by his Tatar allies, Khmelnytsky asked the tsar to incorporate Ukraine as an <u>autonomous</u> duchy under Russian protection.
- The Russians were reluctant to enter into such an agreement, and it was not until October 1653 that a Russian zemsky sobor ("assembly of the land") approved the request and <u>Alexis</u> sent a delegation, headed by V.V. Buturlin, to the Cossacks.



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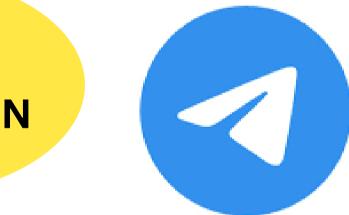
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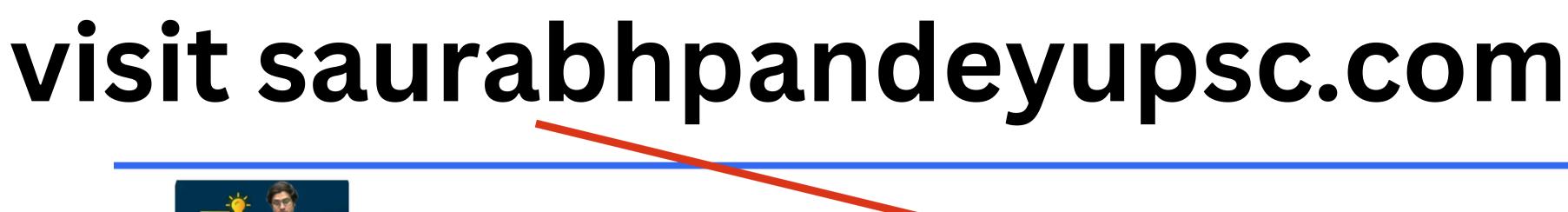
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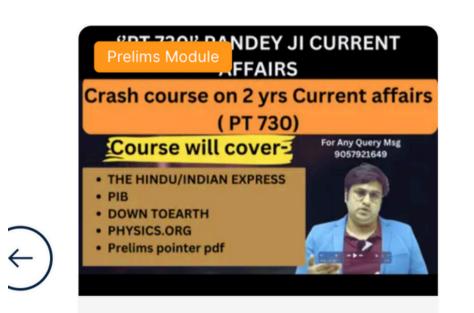


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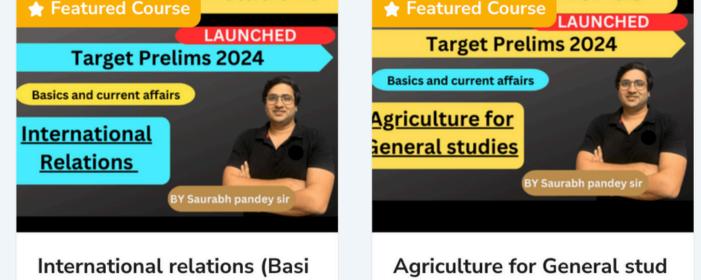
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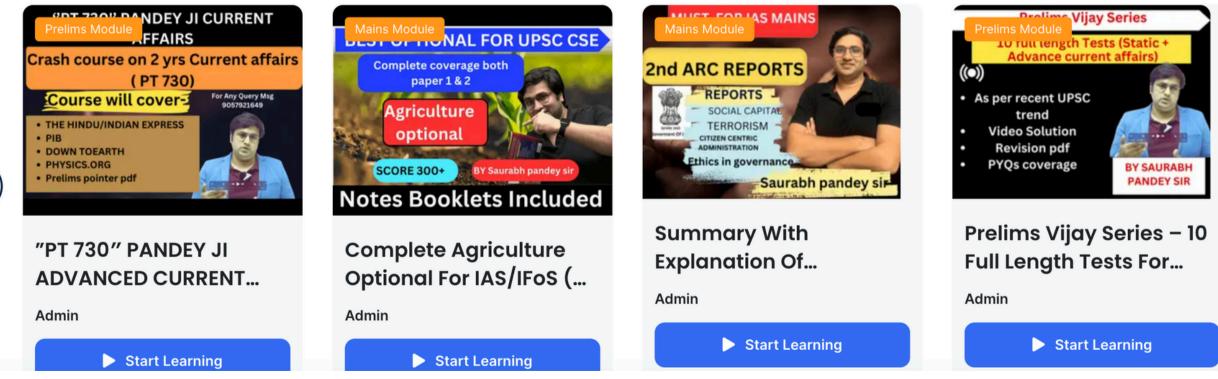
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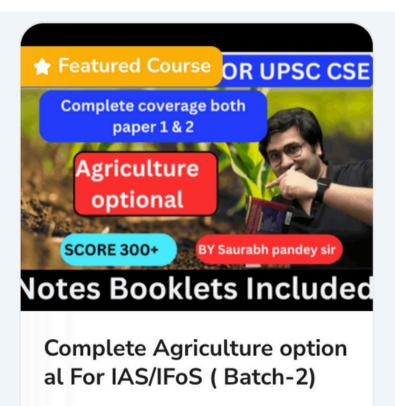
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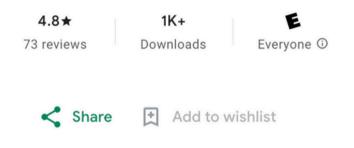
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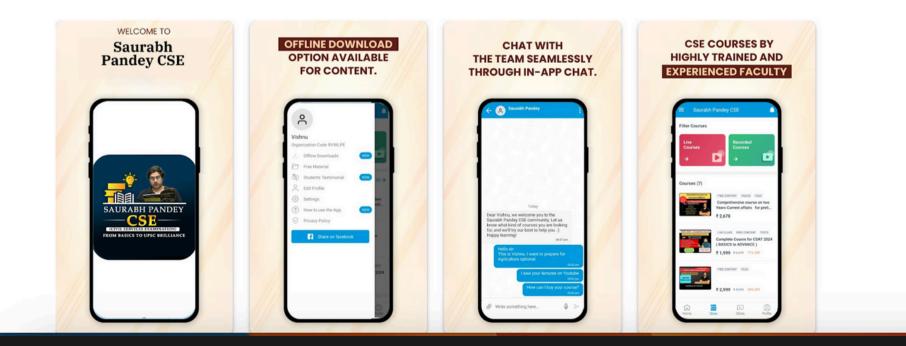
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