

### Growth prescription

IMF's 'mediocre' medium-term outlook merits policy attention

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The latest World Economic Outlook released by the International Monetary Fund (IMF) has some good tidings, and some ominous assessments. The good news—that largely pertains to the short term— is that a much-feared global recession has been averted, the global war against inflation 'almost' won, and growth is holding steady. The U.S. is likely to grow faster this year than anticipated earlier, balancing out lower estimates for some large European nations. Among developing countries, the IMF downgraded growth hopes for West Asia, sub-Saharan Africa and Central Asia as conflicts and unrest disrupt production and shipping. However, brighter prospects for emerging Asia, enhanced by higher public investments in China and India, offset those downward pressures. The IMF expects the world to grow 3.2% in 2024, as in 2023. The moderation in inflation has been partly attributed to the unwinding of shocks since the COVID-19 pandemic and the Ukraine war, but tight monetary policies played a crucial role too, it noted. With inflation returning near central banks' targets, there is now room for pivoting monetary policy to a neutral stance and supporting economic activity. Yet, the IMF has caulioned about food price pressures again in some emerging economics, and services inflation being too high, at almost double the pre-pandemic levels. For India, the IMF has maintained its GDP growth estimate at 7% for 2024-25, followed by 6.5% next year, but linked the moderation in growth from last year to the exhaustion of "pentup demand accumulated during the pandemic".

growth from last year to the exhaustion of "pentup demand accumulated during the pandemic". Some of this is visible in car and consumer nordurable sales, with urban demand stumbling. A
Reserve Bank of India index pegs second quarter
GDP growth at 6.8% – it was 6.7% in the first. The
favourable monsoon and improved rural incomes could lift the tide in coming months, but
may not be taken for granted yet. Of concern, however, is the IMF's prognosis that global growth
should reach a "mediocre" 3.1% in five years, underwhelming relative to pre-COVID trends, with
protectionist industrial and trade policies gaining
more traction. India's economy may hinge more
on domestic momentum but weaker exports and
investment flows will not help. The Centre's recent averments on the reform agenda have signalled that most work now needs to be done in
the States. While that is a truism, central policy
makers also need to work doubly hard to lift potential growth: be it to make India a more open
economy by lowering import tariffs and FDI barriers as the World Bank has mooted, as well as
undertake "ambitious" domestic reforms to improve competition, economic integration and
sur orizing investments suggested by the IME up demand accumulated during the pandemic" prove competition, economic integration and spur private investments, suggested by the IMF.

### Celebration and vigil

India must not let its guard down on kala-azar

of Ralk-dzar

for a disease is seldom matched by the triumph over the cause of the disease, with
some exceptions. The recent achievement India
has struck with kala-azar, bringing it to the brink
of elimination as a public health issue, or with
eliminating bacterial eye infection trachoma, sits
squat in that quarter. India will seek WHO certification for eliminating kala-azar, after it brought cation for eliminating kala-azar, after it brought down the number of cases to under one in 10,000, for two consecutive years now. It is considered the second deadliest parasitic disease after malaria in India. As per figures by the Union Health Ministry, India registered 595 cases and four deaths in 2023, and 339 cases and one death Health Ministry, India registered 595 cases and four deaths in 2023, and 339 cases and one death so far this year. The country must retain this achievement for another year to be eligible for WHO certification. Epidemiology makes the differentiation between elimination and eradication of a disease; with elimination, a nation needs to keep the number of cases under a specified limit, which means it ceases to be a public health problem, whereas with eradication, no further cases can occur. While disease eradication is very challenging, and has been achieved only with smallenging, and has been achieved by the smallenging, and has been achieved only with smallenging, and has been achieved to his formal mamentaria come up short while trying for a vaccine for either kala-azar, or trachoma, making he public health achievement all the more special. Kala-azar is spread by the sandfly which passes on the protozoan parasite, Leishmania donovani, and is present in only one of its forms, visceral leishmaniasis. Trachoma, caused by the bacteria, Chlamydia trachomatis, is the leading infectious cause of blindness in the world. India contributed about 11.5% of the cases of kala-azar lobably and in the 1970s, trachoma was responsible for 5% of all blindness in the country.

infectious cause of blindness in the world. India contributed about 11.5% of the cases of kala-azar globally and in the 1970s, trachoma was responsible for 5% of all blindness in the country.

Kala-azar and trachoma share other commonalities – they are classified under the category neglected tropical disease\*, and are caused by conditions of poverty and inadequate sanitation; it was a sustained government-run public health campaign that addressed the disease spread, and its social implications – including income, access to nutrition and health services – that finally managed to crack elimination. However, sustained surveillance, post declaration for trachoma and as India moves towards elimination for kala-azar, is key. While celebration post such a well-fought public health campaign is necessary, complacence will erode all gains, considering the disease remains in the community, below the WHO-recommended radar. Efforts to find better cures and vaccines must not be suspended because of present gains; indeed, the vigil must be eternal, or, until the disease is eradicated.

## The Manipur crisis, the issue of managing diversity

et another round of escalation of violence in Manipur has reportedly led to the Chief Minister of the State making multiple demands that include greater control over security operations. This means that the Chief Minister has not been in charge for some time. Another jarring revelation, as in media reports, is even the supposed invocation of Article 355 of the Constitution, where the Union has a duty to protect States against external aggression and internal disturbance. The breakdown of the constitutional machinery in Manipur is an open secret. The alarming situation raises significant questions about the capacity of the Constitution to reconcile identitarian differences.

The basis for 'special provisions

The basis for 'special provisions'
Diversity management is a unique feature of the
Indian Constitution. In keeping with the unique
problems of different States, not just erstwhile
Jammu and Kashmir, several others such as
Maharashtra, Gujarat, Nagaland, Assam, Manipur,
Andhra Pradesh, Sikkim, Mizoram, Arunachal
Pradesh and Karnataka were considered entitled
to "special provisions". The circumstances
warranting such "special" provisions have been
either to allay concerns over ensuring equitable
development or to provide saleguards to prescucultural identities. Federalism is not a matter of
choice but compulsion in a huge and diverse
nation such as India.

The Constitution has evolved to reconcile
seemingly competing and even conflicting
interests of identities in several north-eastern

interests of identities in several north-eastern States. A chief feature of such reconciliation within the constitutional scheme has been to institutionalise a scheme of power sharing and representation and guaranteed autonomy in representation and guaranteed autonomy in governance. The purpose of such reconciliatory measures is to ensure a sensitivity to the concerns of group identities and their respective socio-political backgrounds, and allow the Article 371F(f) presence of such identities to engender political stability rather than sow discord and fragment society. It may be of value to revisit examples of such constitutional pragmatism as the number of deaths and displaced people is increasing each day and any indifference to the fast deteriorating situation will not be in national interest.

interest.

The accession of Sikkim to India in 1975 led to the inclusion of Article 371F. These "special provisions" included Article 371F(7) which empower Parliament to protect "the rights and interests of different sections of the population". Additionally, Article 371F(g) also provided that the Governor would have the special responsibility for a scheme of "equitable arrangement for ensuring the social and economic advancement of different sections of the population of of different sections of the population of Sikkim..." The broad import of Article 371F envisaged power sharing through representation and the preservation of cultural autonomy to achieve the goal of political stability. The



an advocate of the Telangana High Court, Hyderabad



Patna, Bihar

Representation of Peoples Act 1951 was amended to reflect the scheme of Article 37Hf() and seats were earmarked for different communities in the Legislative Assembly. This arrangement came to be challenged along with the constitutionality of Article 37Hf(i) in R.C. Poulyal (1993) before the Supreme Court of India as the increased representation of the Bhutia-Lepcha community was alleged to be in the teeth of norms of proportionate reservation. In upholding the constitutionality of Article 37Hf(i) and the amendment to the Representation of Peoples Act 1951, the Court reasoned that the increased representation of the Bhutia-Lepcha community was an inheritance of the socio-political history of was an inheritance of the socio-political history of Sikkim, which necessitated the framing of Article

This was part of a broader discourse which the This was part of a broader discourse which the Court had concluded as part of a scheme of "accommodations and adjustments" to facilitate the co-existence of different tribal identities in Sikkim. The Court held that "historical considerations and compulsions do justify inequality". Resultantly, the proportionality of seats reserved for the Bhutia-Lepcha community was justified to protect the identity of the community and a political process to ensure political stability. There was an explicit recognition of group identities as the basis of power sharing and representation in governance.

Tripura emerged as an example of peace brokered through the Constitution at the height of the insurgency movement. The Sixth Schedule of the Constitution provides for the administration of tribal areas by devolving power to district and regional councils which are empowered to make laws on various areas such as education, social customs, alienation of land and usage of forests, and establishment of village and town committees. However, the Sixth Schedule was not made applicable to Tripura until 1984. By virtue of the 49th Constitutional until 1984. By virtue of the 49th Constitutional Amendment, the provisions of the Sixth Schedule were made applicable to the tribal inhabited areas of Tripura. However, the legislative autonomy accorded by the Sixth Schedule devolved markedly greater powers to the district council to exercise discretion regarding the application of Union laws to Scheduled Areas. This was the result of the Tripura Accord signed in 1988 between the Union Government, the State government and the Tripura National Volunteers (TNV), a militant group which even sought secession. The accord reserved a third of the seats in the State Assembly to the Scheduled Tribe population — beyond the proportion of their population in the total population.

Consequently, sub-article CBJ in Article 332 was inserted in 1992.

The disproportionate representation of the

inserted in 1992.

The disproportionate representation of the tribal population was challenged in Subrata Acharjee (2002). In deciding the question, the Supreme Court took into account the background

of the accord which required violence to be abjured and efforts at securing stability in the region. The Court ultimately rejected the contention seeking proportional reservation based on "arithmetical precision" and reiterated the scheme of "accommodations and adjustments".

It concluded that Article 332(3B) was inserted to give "greater share" in governance, as per the

to give "greater share" in governance, as per the terms of accord. The Court ruled that the reservation scheme was not violative of the scheme in Article 332(3) and Article 170 as it was a scheme in Article 332(3) and Article 170 as it was a temporary measure to ensure an inclusive scheme of governance in Scheduled Tribe-inhabited areas. The approval of the scheme of power sharing to reconcile differences through the Constitution was found to be in order

through the Constitution was found to be in order despite it being a unique measure not in "symmetry" with the Constitution.

Significantly, as was the case with Tripura, the Sixth Schedule does not apply to the State of Manipur. Instead, Manipur is governed by Article 37IC which provides for the creation of a Hill Area Committee consisting of elected representatives from such areas. Curiously, the approval or concurrence of the Hill Area Committee regarding matters affecting the governance of such areas is not necessary. The latest judgment of the apex court on citizenship upholding different cut-off dates for Assam is another example of accommodation due to its geographical location. Here again, the Court preferred promotion of fraternity.

Words that Manipur needs to ponder over Moreover, unlike the Sixth Schedule, the establishment of a "District Council" in Manipur is governed under a separate statute, i.e., the Manipur Hill Areas Autonomous District Council Act, 2000. Under the statute, a "District Council" is required to be incorporated and membership to the council is based on classification as a

is required to be incorporated and membership to the council is based on classification as a "Scheduled Tribe". Strangely, unlike the veto power possessed by the Scheduled Tribes in States such as Nagaland, Sikkim and Tripura, no specific provisions exist in the case of Manipur. In the background of tensions in Manipur, concerns over representation, allocation of resources, and perceived domination of any community have heightened anxieties and exacerbated social division.

The Constitution, as a living and transformative document, has repeatedly evolved its capacity to adapt to demanding circumstances. The words of the Court in R.C. Poudyal may shed some light on a brighter future in Manipur: "pluralist societies are the result of irreversible movements of history. They cannot be washed away. The political genius of a people should be able to evolve within the democratic system, adjustments and solutions". It is only a reminder that ultimately, peace will have to be evolved through the Constitution without which any attempt to solve issues of diversity would any attempt to solve issues of diversity would remain illusory.

## The shifting sands within global supply chains

lobal supply chains are at an inflection point. While the COVID-19 pandemic shifted the focus from efficiency (just in time) to resilience (just in case), two developments in September 2024 indicate that another shift is underway in how supply chains are envisioned and operationalised – this time towards security (just to be secure).

Moves by the U.S. and Israel's pager attack On Sentember 23, the United States Department On September 23, the United States Department of Commerce proposed rules which, if accepted "would prohibit the import or sale of certain connected vehicle systems designed, developed, connected vehicle systems designed, developed, manufactured, or supplied by entities with a sufficient nexus to the PRC or Russia". The proposed rules target both the software and hardware associated with whicle connectivity systems as well as automated driving systems. While the 100% tariffs on Chinese EvS announced by the U.S. earlier this year stemmed from competition concerns aimed at reducing their sale in the domestic market, the newly proposed rules, which stem from national security concerns, would effectively ban their sale in the U.S.

concerns, would effectively ban their sale in the U.S.

The U.S. case against Chinese connected car tech is that both hardware and software components in cars employing some form of external communication capabilities can be potentially misused. The idea is that cars with connected car tech are essentially mobile listening posts, and that malicious actors can use their cameras and sensors for espionage purposes. Worse, these cars may even be disabled or higacked – especially those level 3 and above on the Society of Automotive Engineers' levels of driving automation. For security hawks, levels of driving automation. For security hawks, handing over such control to a state with which you may be in a future conflict simply carries

you may be in a nature contact and your overwhelming risks.

If there was any strand of thought moderating the hawkish focus on supply chain security, that



The healing touch of

constitutional accommodation is the only

way out

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Proposed U.S. rules on Chinese connected car tech and Israel's pager attacks indicate the changing focus of global supply chains — from resilience to security

evaporated as the world came to terms with the Israeli supply chain attack, on September 17-18, targeting pagers and walkie-talkies used by Hezbollah in Lebanon. More than 30 people including children were killed while thousands were injured. The fallout was felt far and wide leaving everyone wondering about the state of advanced technologies used or embedded in products across industries when even basic old-fashioned devices could be made to explode. While the U.S. proposed rules and the Israeli

While the U.S. proposed rules and the Israeli pager attack have reignited and amplified the supply chain security debate, it arguably began a few years ago when the U.S., Australla, Japan and even India effectively banned Huawei and other Chinese telecom players from participating in the 5G rollout for security considerations. The SG rolout for security considerations. The motivating fear was that China could install backdoors in the telecom infrastructure giving it the capability to surveil or sabotage the same. Since then, supply chain security concerns have spread to other tech industries such as

From efficiency to resilience to security
During the heydays of globalisation, especially
from the 1980s till the 2010s, supply chains were
configured to ensure maximum efficiency; that is,
weaving a complex supply chain for each product
or service in a way that components were
procured and assembled at various locations
across the world based on cost and other
considerations. These "just in time" supply
chains were to some extent innunue from great
power politics. China established tiseff as a
central supply node in this arrangement. A
combination of various factors in the late 2010s
and early 2020 such as the U.S.-China rivalry
and resultant technology decoupling and the
COVID-19 pandemit shifted the focus away from
"just in time" to "just in case".

That is, there was a recognition in the U.S.,
Europe, India and elsewhere that supply chains

had become too dependent on Chinese exports. Supply chain resilience, as a result, became all the rage. But, almost simultaneously, security considerations around Chinese involvement in telecom infrastructure also led to another shift – from resilience to security. This shift has only solidified in the wake of Israel's supply chain arteck.

India and supply chain security

How can India ensure that its supply chains are secure? Extreme measures such as outright

How can India ensure that its supply chains are secure? Extreme measures such as outright banning import of a range of tech products and services would not work. Neither would fully subscribing to the "just in case" strategy that focuses on supply chain resilience. What can work is a two-pronged approach involving both "just to be secure" and "just in case" strategies. The "just to be secure" strategy can be put in motion through "trust but verify" and "zero trust." Certain tech products and arevices (say those used in communications, transport or critical infrastructure broadly defined) can be subjected to trust but verify entailing methods such as periodic audits, on-site inspections, and establishment of a mechanism that ensures compliance with national and international security standards. But a more narrowly defined set of technologies that are most critical (say those used by Indian military, intelligence agencies, or for cutting edge research and development) should be subjected to zero trust. Assuming by default that all tech products and services are compromised and applicable to friends and foes alike, zero trust would entail developing the most stringent checks during procurement as well as continuous monitoring developing the most stringent checks during procurement as well as continuous monitoring and verification. For all the rest less critical technologies, the "just in case" strategy involving diversification of vendors and friendshoring would suffice in taking care of larger supply chain concerns about cascading fallouts due to single points of vulnerabilities and failures.

### LETTERS TO THE EDITOR

Peace moves
Prime Minister Narendra
Modi's efforts to end the
crisis in West Asia and also
bring peace between Russia
and Ukraine are
commendable steps. But,
unless the countries unless the countries involved have a commitment to restore

peace, Mr. Modi's efforts will serve no purpose. China is not to be trusted as its track record with India is not clean with respect to border agreements, and its commitment to the present border deal is doubtful. N. Vivewaran.

The government's recent moves toward China and the Maldives, the Prime Minister's discussions with the Russian President and his meeting with the Chinese President mark the beginning of a new era in India's foreign policy. But it is high time India showed

...

Blackout It is beyond imagination that an entire country — Cuba — can go without electricity for days together,

### Corrections & Clarifications A sentence in a report, "Religious 'wished away': CJI" (October 23, 202tion recognised religious instruction. r 23, 2024), said that Article 23 of the Con truction. It should have been Article 28.

bringing it to a grinding halt. The blackout is not an isolated incident, but part of a much larger problem for Cuba. The crisis marks a new low in a nation where life has become increasingly unbearable for its citizens.

8. Stakumer.

R. Sivakumar,











## Trump's toxic politics of misinformation

n today's post-truth world, where deception and disinformation threaten democracy, history's lessons are more relevant than ever. As we look to the future, let us revisit the past and applaud the Haitians momentous contribution to fighting colonialism. After the Revolution of 1791, Haiti became the first free Black-led republic. However, it is among the poorest nations today, due in large part to France and the U.S. Haiti paid France a colossal debt for 122 years to secure its independence. The U.S. worked to isolate the independent country by cutting off aid and putting an embargo on trade during the early 19th century. In 1915, the U.S. occupied Revolution of 1791, Haiti becar century. In 1915, the U.S. occupied Haiti. It left in 1934, but continued

Haiti. It left in 1934, but continued to control Haiti's public finances until 1947. Such suppression is a measured result of global antagonism to Black liberation. This historical context underscores the misery and the experiences of marginalised communities in the U.S. In the 1970s, when HIV/AIDS affected the U.S., particularly the gay community, a damaging narrative community, a damaging narrative began to grow that the epidemic had originated in Haiti. Thus, the Haitians were seen as high risk. This fuelled fear and xenophobia. This nucled fear and xenophobia. Schoolchildren, influenced by adult conversations, spurned Haitian peers. Their ignorance masked a darker reality: systemic misinformation and bigotry. For years, Haitians faced taunts about extreme poverty and mud cake consumption, perpetuating consumption, perpetuating emasculating essentialisms, racism and fear.

### False narratives

False narratives
Haiti has been the main target of
former U.S. President and
Republican presidential candidate
Donald Trump's derision. In 2018,
for instance, he referred to Haiti
and several African nations as
"s'tithole countries" and
questioned the need for more
Haitian immigrants. Mr. Trump
and J.D. Vance, his running mate,
have together peddled rumours



Shelley Walia

about Haitians in Springfield, Ohio, stoking fear. Mr. Vance's false claims of pet abductions: consumption are particularly odious, targeting legal Haitian immigrants. Mr. Trump too resorted to abominable resorted to abominable stereotypes, declaring, "In Springfield, they're eating the dogs, they're eating the cats, they're eating the cats, they're eating the pets of the people that live there." This infamous statement has now been immortalised in music history, transmuted into a stinging rebuke of political chicanery that exposes the dark tactics of political manipulation.

manipulation.
In the U.S., every five years, a
wave of unfounded, racially
charged, and xenophobic
accusations resurface, aiming to accusations resurface, aiming to marginalise and stigmatise the Haitian population. They undermine any progress made towards social cohesion. It is crucial to be aware of the threat Mr. Trump's leadership poses: his outrageous comments on migrant have damaged the nation's moral fabric; yet people believe the implausible, or at least lend credence to it. implausible, or credence to it.

### Disturbing trend

The false claims of these two leaders have gained traction, despite being baseless and harmful. Their lies have propelled their ratings. This is a disturbing trend where politicians not only lie and wrap themselves in outrageous conspiracy theories and also get praised for it. Repeat the outlandish lie many time still it becomes a part of the vernacular and people begin to fall prey to the discursive strategies of the The false claims of these two the discursive strategies of the extreme right.

extreme right.

The danger of Mr. Trump's leadership lies in his willingness to exploit and manipulate information to achieve his goals. His claims of election fraud and attempts to undermine the democratic process reflect on the type of presidency the U.S. will have if he is elected. His threat of denying representation and denying representation and federal resources to millions of

marginalised people through the abuse of executive power could become a reality.

### Fighting back

Organisations such as the American Civil Liberties Union are already up in arms. Fortunately, movements emerge to reassert equality, justice, and freedom. The n Civil War, the Civil American Civil War, the Civil Rights Movement, and other struggles demonstrate how institutions can be transformed to uphold democratic values. The resilience behind such movements inspires hope, reminding us that history is not just a record of the past but a guiding light for shaping our collective future. Fostering inclusive policies and amplifying our collective future. Fostering inclusive policies and amplifying marginalised voices becomes vital in upholding human values. Speaking truth to power remains the ever-abiding credo of the minorities to fortify the fight for upholding democratic institutions and strive for a more just and equitable society in a land of their choice. This would be possible only through the promotion of critical thinking, media literacy, and informed citizenship. and informed citizenship.

As we move forward, it is fundamental to reject such hate-filled tactics and promote inclusivity, respect, and truth. The democratic institutions that a nation inherits from its founding fathers serve as a lasting scaffolding of human values, but it is vital that we preserve and reinforce them.

Meanwhile, the Haitian immigrants in Springfield seek a better life, driven by a desire to enjoy the fundamental rights of legally settled citizens. Their story is one of resilience and hope, not fundamental to reject such

is one of resilience and hope, not sedition or machinations. sedition or machinations. However, they face an excruciating history of discriminatory policies. Public institutions are failing and chipping away at the fundamental principles of democracy. The world remains a witness to the spread of undemocratic ideologies, lueled by narratives that distort reality and manipulate rublic opinion.

## Delhi's challenges in school education

Absenteeism, discriminatory policies, and poor infrastructure are major issues

### STATE OF PLAY

Maitri Porecha

n 2015, before the Delhi n 2015, before the Delhi
Assembly elections, the
Asm Aadmi Party (AAP)
promised to revolutionise
school education if it came to
power. Since then, the AAP government has increased its allocation for education to near
the 25% of the Budget. It has
sent teachers and principals
for training programmes at
the University of Cambridge,
U.K.; the National Institute of
Education, Singapore; and IIM Education, Singapore; and IIM Ahmedabad. It has decentral-Ahmedabad. It has decentralised finds for school management committees, vested more powers in the hands of community to spend; introduced the 'happiness curriculum'; and proposed guidelines to prevent private schools from increasing their fees. On the face of it, these look like great reforms. However, the great reforms. However, the newly appointed Chief Minis-ter, Atishi Marlena, who han-

ter, Atishi Marlena, who handles the Education portfolio, is staring at several challenges. The first and most immediate challenge is to curb absenteeism and encourage children to attend school. In 2022-23, 17-85 lakh students were enrolled across the 1,070 government schools in Delhi. Of them, 6.67 lakh students (nearly 33%) were absent for seven consecutive days or 20 out of 30 working days between April 2023 to February 22, 2024. This is slightly high-22, 2024. This is slightly high er than the national ave

er than the national average of 28% (Annual Status of Educa-tion Report, 2019). In a much-criticised move this June, the Delhi government asked all government schools to ensure that Class 9 students who have failed twice are counselled and requested to register with the



National Institute of Open Schooling (NIOS). Just 6,200 of the 17,000 government school students who failed Class 9 for the second time in 2023-24 enrolled with NIOS; the rest slipped through the

cracks.

The government's rationale for its decision is to open new avenues for non-formal education for dropouts. However, as Delhi-based advocate, Ashok Agarwal, who has been fighting for fair implementation of the Right to Education, said, "It ensures that the Delhi government has a high pass rate to show as a measure of 'success'." The students of Delhi secured an overall pass persecured an overall pass per-centage of 94.35% in 2023-24, centage of 94.35% in 2023-24, which surpassed the national average of 93.60%. "We have agitated multiple times in front of the Chief Minister's residence so that they withdraw this policy," he added.

The government also decided to segregate children according to their learning abilities into two grouns: Patalbha

ties into two groups: Pratibha (loosely translated as intelli-gent) and Nishtha (steadfast). gent) and Nishtha (steadfast). A parents' forum moved the Delhi High Court against the government for this move. The government believes that dividing students according to their performance levels would allow it to identify those at risk of academic failure. But such divisions, as a senior NCERT official told The Hindu, is "discriminatory and

can negatively impact the mo-tivation of students." It also raises questions about equali-ty and dignity.

As far as infrastructure is

concerned, concerned, government schools in the North East District, the poorest in terms of development indicators such as health and education, are a as health and education, are a stark departure from the mo-del schools that the govern-ment often portrays in adver-tisements. The problem of overcrowding is so acute that students are asked to attend school for only two hours on any given day or are called on any given day or are called on alternative days so that multi-ple batches of students can be accommodated. The Delhi High Court has asked the go-High Court has asked the go-vernment to address issues of lack of space and overcrowd-ing, which were forcing stu-dents to spill into libraries, labs, staff rooms, and the prin-cipal's office to attend classes. The government's decision to regulate fees of unaided private schools which were al-

private schools which were al-lotted land by government agencies also suffered a blow when the Delhi High Court stayed a government circular mandating certain schools to seek prior permission before raising fees. Mr. Agarwal said, "Unless Delhi brings in a law or regulation to check the unaided private school fee structure, little will change."

For lasting changes in the school education system, the AAP will have to focus on bridging the gap between the brightest students and those who fail in Class 9; the latter stayed a government circular

brightest students and those who fall in Class 9; the latter cannot be ignored or left behind. It must focus on infrastructure issues and address the problem of overcrowding in schools in the North East District. Most importantly, it must pay attention to the poorest of the poor in Delhi and ensure that every child attends school.

## With farm fires declining, Delhi's pollution woes need other solutions

Farm fires have drastically declined in Punjab, while Haryana and U.P. have already recorded fewer incidents over the last few years

### DATA POINT

### Nitika Francis

n Sunday, Delhi Chief Minister Atishi claimed that farm fires in Haryana and Uttar Pradesh, both BJP-ruled States, were responsible for the alarming levels of air pollution in the National Capital Region (NCR). She claimed that farm fires in AAPled Punjab have drastically reduced, while those in Haryana and Uttar Pradesh have increased. The Uttar Pradesh have increased. The BJP has rejected these claims. The party's Delhi chief, Virendra Sach-deva, accused the AAP governva, accused the AAP govern-nt of being unresponsive to the

ment of being unresponsive to the pollution issue.

While the blame game has begun, the pollution levels in NCR are peaking again, reaching two to three times the permissible limit. Chart I shows the 24-hour average PM 2.5 pollution levels – in micrograms per cubic metre of air (ug. m²) – in Anand Vihar (Delhi), Sector 125 (Noida) and Sector 51 (Gurgram) this year from lanuary I to tor 125 (Noida) and Sector 51 (Gu-rugram) this year from January 1 to October 22. According to the Na-tional Ambient Air Quality Stan-dards, an average daily PM 2.5 le-vel between 0 and 60 µg/m² is considered 'satisfactory'. On October 22, Anand Vihar's average PM 2.5 level was 208 µg/m², more than three times the limit. Both in the Noida and Guru-gram stations, pollution levels

gram stations, pollution levels were more than the permissible li-

mit on most days this month. While pollution in Delhi-NCR While pollution in Delhi-NCR has undoubtedly increased, inci-dents of stubble burning, a pheno-menon primarily attributed to causing pollution in the capital, have been on a drastic decline. Chart 2 shows the State-wise num-ber of paddy residue burning events over the years. All three States mentioned by Ms. Atishi have shown fewer pad-dy residue burning events over the

dy residue burning events over the past eight years. The farm fires in past eight years. The farm fires in U.P. slightly peaked this year com-pared to last year. Punjab un-

CM (III

doubtedly recorded the most dras tic decline of the three. This can be attributed to a host of measures, such as stringent fines and cases filed against offenders, the use of nted against oftenders, the use of different varieties of paddy, and various methods of stubble man-agement. However, the State still hosts the highest number of such incidents (1,581 farm fires in 2020 which is higher than the number of incidents in Haryana and Uttar Pradesh put together.

The danger of

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Donald Trump's

of incidents in Haryana and Uttar Pradesh put together.

Chart 3 shows the top 15 districts (in the three States menioned) which recorded the highest number of paddy residue burning events in the 2016-2019 period. It also shows to what extent the events have reduced in the 2021-2024 period. All the districts have recorded sharp reductions in farm fires, except Amritsar, which has seen only a 5% drop between the two periods. Tarn Taran, where most farm fires were recorded in 2016-2019, recorded a 45% decline in 2021-2024.

The fact that stubble burning is

The fact that stubble burning is not a major cause of pollution in recent years in the NCR was also pointed out by the dashboard maintained by the Indian Institute of Tropical Meteorology, Pune. The dashboard named 'decision support system for air quality management in Delhi' shows that the contribution of stubble burning to the PM2.5 pollution levels in Delhi has on most days remained The fact that stubble burning is Delhi has on most days remained below the 1% mark this October.

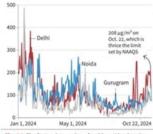
Chart 4 shows the daily mean tion from stubble burning to the PM2.5 mass concentration to the PM2.5 mass concentration in Delhi (on days with data in the October 8-22 period). The share did not cross the ½ mark for 10 of these 13 days with data and reached a peak of 8% on October 22. Essentially, even at its peak, stubble burning contributes less than 10% to Delhi's air quality deterioration.

terioration. With peak winter fast approaching, the air quality in NCR is bound to worsen further. This time, causes beyond stubble burning should be addressed in more detail.

## Not a burning issue



Chart 1: The 24-hour average PM2.5 pollution levels in Delhi, Noida, and Gurugram this year from January 1 to October 22

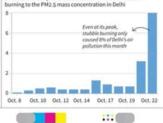


2016 2017 2018 2019 2020 2021 2022 2023 2024

Table 3: The top 15 districts which recorded the most paddy residue-burning events in the 2016-2019 period and the extent to which these events reduced in the 2021-2024 period

	otate	2016-2019	2021-2024	Change (%)
Tarn Taran	Punjab	5,298	2,942	-44.5
Firozpur	Punjab	4,582	770	-83.2
Patiala	Punjab	3,704	1,071	-71.1
Karnal	Haryana	3,537	753	-78.7
Kaithal	Haryana	3,467	888	-74.4
Amritsar	Punjab	3,132	2,960	-5.5
Faridkot	Punjab	3,002	313	-89.6
Kurukshetra	Haryana	2,871	604	-79
Muktsar	Punjab	2,705	91	-96.6
Bathinda	Punjab	2,371	99	-95.8
Jalandhar	Punjab	1,943	459	-76.4
Gurdaspur	Punjab	1,863	768	-58.8
Ludhiana	Punjab	1,796	543	-69.8
Fatehgarh Sahib	Punjab	1,739	399	-77.1
Kapurthala	Puniab	1.593	670	-57.9

Chart 4: The daily mean contribution in % from stubble burning to the PM2.5 mass concentration in Delhi



### FROM THE ARCHIVES

The Man Frinde.

FIFTY YEARS AGO OCTOBER 24, 1974

### Malayalam records transfer to Kerala ruled out

Trichur, Oct. 23: Old manuscripts and historical Trichur, Oct. 23: Old manuscripts and historical records in Malayalam kept in the libraries of Tamil Nadu are valuable treasures and there is no question of transfering them to Kerala, said Mr. V.R. Nedunchezian, Education Minister of Tamil Nadu, here to-day. He was answering pressmen whether his government was considering the Kerala government's request for transfer of the records which formed part of collections when Malabar was part of erstwhile Madras State.

Mr. Nedunchezian, however, said that the Tamil Nadu Government would be happy to allow taking of copies of these works if Kerala was interested. The Tamil Nadu Minister who is on a visit to

The Tamil Nadu Minister who is on a visit to places of cultural importance in Kerala like Kodungallur, Guruvayur and Kalady said that the Tamil Nadu Government would consider how it could help in the development of Kodungallur, the abode of Kannaki and the birthplace of llango Adigal, the author of Silappathikaram. He said that correspondence was still going on between the Chief Ministers of Tamil Nadu, and Karala on the preservation of was still going on between the Chief Ministers of Tamil Nadu and Kerala on the preservation of the Mangala Devi temple inside Kerala on the Tamil Nadu border which is also believed to be a Kannaki temple. Tamil Nadu would be prepared to help in the development of this place as a tourist place if Kerala was willing. He, however, agreed that there was difference of opinion among historians about this claim over this temple and said that Kodungallur might be the original Kannaki temple where the idol brought by Cheran Chenguttavan was installed.

### A HUNDRED YEARS AGO OCTOBER 24, 1924

### Cotton growing in Ceylon

The Report of the Council of the Empire Cotton Growing Corporation, which was submitted at the annual meeting to-day, states that the Governor of Ceylon asked the Corporation to arrange for an expert to visit Ceylon, to report on the Cotton experiments which were being carried out by the Department of Agriculture and the possibilities of future production on a and the possibilities of future production on a commercial scale. It is hoped that it may be possible to arrange with the Government of India to send an officer for this purpose.

If there are questions of current or contemporary relevance that you would like explained, please write to explained@indianexpress.com

## Geoengineering idea: diamonds in the sky, cooling the Earth

SPRAYING MILLIONS of tonnes of diamond

SPRAYING MILLIONS of tonnes of diamond dust in the upper atmosphere could be an effective way of cooling down the Earth and fixing the problem of global warming, a new study has concluded. It sounds like an absurd idea, but it has been put forward earlier, too, Several other materials, including compounds of sulphur, calcium, aluminium, and silicon, have been gested previously for this same job. The ential idea is to scatter material that can

essential idea is to scatter material that can reflect solar radiation back to space – and not allow it to reach Earth – thereby cooling down the planet.

According to the new study, published in Geophysical Research Letters earlier this month, diamonds can be more effective in doing this job compared to any other material considered previously. ("Microphysical Interactions Determine the Effectiveness of Solar Radiation Modification via Stratospheric Solid Particle Injection": S Vattioni, SK Käslin, and others)

Such solutions, called 'geoengineering', more specifically, solar radiation manage-ent (SRM), have been studied for several ars now, although no attempt has ever en made to put them into practice. With s same intention, the installation of spacebased mirrors has also been assessed

### Hotter and hotter

Hotter and hotter
Measures to slow or halt global warming have been extremely inadequate. Not only have global temperatures continued to rise even the emissions of greenhouse gases, the main reason for the warming, have not been curbed. Scientists estimate that even if global emissions were to magically drop to zero suddenly, it would still be several decades before temperatures stabilise and begin to

before temperatures stabilise and begin to come down.
Global temperatures are already about 1.2 degrees Celsius higher than pre-industrial times (1850-1900 period), and 2023 was as much as 1.45 degrees Celsius warmer. There is no wuy that the world can keep this rise to under 1.5 degrees Celsius, which was one of the targets mentioned in the Paris Agreement. In theory, this is still possible —

but the bare minimum for achieving this tar-get requires the world to cut emissions by at least 43% by 2030 from the 2019 levels. All ongoing and promised actions in this regard ever, likely to result in a reduction of just 2% by 2030. As such, scientists have been looking for

### Geoengineering

Geoengineering refers to any large-scale attempt to alter the Earth's natural climate system to counter the adverse effects of

system to counter the adverse effects of global warming.

Solar radiation management (SRM), in which certain materials are proposed to be deployed in space to reflect the rays of the Sun and prevent them from reaching Earth, is one of two broad geoengineering options being explored. The other is carbon dioxide removal (CDR) technologies, which includes various carbon capture and sequestration (CCS) methods.

Both SRM and CDR are seen as having the potential to offer quick fixes to either reduce emissions or lower temperatures, but neither option has been proven to be viable yet. CCS has been tried out in practice, though. Carbon dioxide emitted by industry or power

As such, scientists have been looking for radical technology solutions that can achieve are demanticresults within a short time, even if they are only temporary. This is where geoengineering efforts come in.

Geoengineering

Carbon-doubde-mitted by industry or power action of carbon-doubde-mitted by industry or power actions or carbon-doubde-mitted by industry or power actions or carbon-double-mitted in overall emissio

Some solutions involve the use of 'cap-red' carbon as an input for other industrial

tured' carbon as an input for other industrial processes (carbon capture and utilisation, or CUU); in others, a part of the carbon dioxide is utilised and the rest stored underground (carbon capture, utilisation and storage, or CCUS). There are also direct air capture (DAC) methods that seek to use large "artificial trees' to suck carbon dioxide from ambient air and direct it to storage or utilisation sites. Since these methods can potentially eliminate carbon dioxide accumulated over the years, the benefits are larger compared to CCS. Some ex-

### Mimicking volcanoes

SRM is the most ambitious, and p most rewarding, form of geoenging

soon to the most amonosous, and potentially most rewarding, form of georegineering. It is inspired by volcanic eruptions, in which large amounts of sulphur dioxide combines with water vapour to form sulphate particles that reflect sunlight back to space. The massive eruptions from Mt Plinatubo in the Philippines in 1991 are supposed to have brought down the Earth's temperature by 0.5 degrees Celsius that year. Scientists trying to mimic this process artificially have explored the capabilities of several materials, including sulphur dioxide, calcium carbonate, and sodium chloride. Diamonds have been talked about, too. The new study compared seven compounds and found diamond to be the most effective. But to achieve a temperature reduction of 16 degrees Celsius, about 5 million tonnes of diamond dust would heed to be sprayed in the upper atmosphere every year.

Challenges, concerns

SRM options obviously face massive c lenges of technology and costs. Also, mar ulating natural processes on a large scale have unintended and unforeseen cor quences, including disrupting global and re-gional weather patterns and rainfall distri-bution. Altering natural sunlight can impact agriculture, vegetation, and biodiversity

agriculture, vegetation, and biodiversity.

A study by researchers from Oxfor
University and Imperial College London las
year showed that while it might be technically possible to deploy CCS technologies, in
may not be feasible or practical to rely or
them to achieve climate objectives.

The study calculated that emission path
was that regimed the aced that control of the

The study calculated that emission pathways that required the world to put up to 20 billion tonnes of carbon dioxide underground by 2050 could cost at least \$30 trillion more than the pathways in whichonly about 5 billion tonnes have to be stored. Besides, enough safe underground sites for storing such huge amounts of CO2 may not be available.

That said, CCS options are considered almost unavoidable now. There are no scenarios for the world to achieve the 15-degree or 2-degree Celsius targets that do not require contribution from CCS and CDR technologies.

### **EXPLAINED HEALTH**

## MCDONALD'S-LINKED OUTBREAK IN UNITED STATES: WHAT IS E.COL!?

ANONNA DUTT OBER 23

ONE PERSON has died and 10 have been

ONE PERSON has died and 10 have both hospitalised in the US due to an E.Coli infection after eating McDonald's burgers. While the source of the infection is not known yet, the fast food giant has stopped serving quarter pound patties and slivered onions in several states. Both ingredients are primarily used in the burger.

### Has the outbreak been reported tside the US too?

No. The outbreak is restricted to 10

No. The Outbreak is restricted to 10 states in the United States.

However, E.coli, which causes gastrointestinal symptoms, is not uncommon in India. It spreads through contaminated food and water. "We usually see cases during the summer and rainy seasons, when

ing the summer and rainy seasons, when there is an increase in gastrointestinal in-fections in general." said Dr Atul Gogia, senior consultant of internal medicine at Sir Ganga Ram hospital, New Delhi. Dr Suranjit Chatterjee, senior consultant Apollo Hospital, New Delhi, said: "Among gastrointestinal and urinary tract infec-tions, Ecoli is one of the most common nathogen:"

How common are Ecoli infections?
More than 500 outbreaks of diarrhoeal diseases were reported across India in 2023, according to the National Centre for Disease Control.

Ecoli is the most common bacteria isolated from patient samples, according to the latest report of ICMR's Antimicrobial Surveillance Network. The pathogen was found in 23,190 fail types of patient samples from tertiary care hos-

pitals across India, where the surveillance is carried out. The Food Safety and Standards Autho-

The Food Safety and Standards Authority of India (FSSA) is working on creating a network of 34 microbiology labs across the country that will test food products for 10 pathogens, including Ecol, salmonella, and listeria. Tests for microbial contamination were missing from most state food safety laboratories in the country.

### What are the infection's symptoms? The most common symptoms of E.coli infection include fever of more than 102

infection include rever of more than 102 degree F, persistent diarrhoea, bloody di-arrhoea, and vomiting. The main problem, however, is dehydration due to the inabil-ity of the patient to retain water and fluids. In very few cases, people may get acute kidney injury.

### How is it treated?

E.coli is a bacterial infection for which

E.o.fis a bacterial infection for which antibiotics are prescribed. Doctors emphasise that medicines should not be taken without consultation. Indiscriminate use of antibiotics leads to antimicrobial resistance and further difficulty in teating common infections. For example, E.colf's susceptibility to even strong antibiotics, such as carbapenem, has been on the decline, reducing from \$1.4% in 2017 to 6.27% in 2023 to one type of medicine in this category.

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**Drishti IAS** 

When should you go to a doctor?
You must go to a doctor if you have had diarrhoea for more than a couple of days; you have to visit the toilet every half hour to an hour; you have bloody diarrhoea; you vomit frequently; and are unable to retain any water and fluids.
LONGER VERSION ON

d

### Union and State Lists contain 'overlapping' entries? Here's why SC held that states can tax industrial alcohol

A NINE-JUDGE Bench of the Supreme Court held in a 8:1 ruling on Wednesday that states have the power to tax not just alcoholic bev-erages, but also 'industrial' alcohol. Excise duty levied on 'drinking' alcohol is

AJOY SINHA KARPURAM

Eccise duty levied on 'drinking' alcohol is a by component of the revenue generated by most states — and the top court's ruling will add to their collers. The key interpretative question before the court was whether "intoxicating liquor" can be defined to also include "industrial alcohor". Eight judges — Chief Justice of India (Cli) DY Chandrachud, and Justices Hrishiltesh Roy, Abhay S Oka, J B Pardiwala, Manoj Misra, Ujjal Bhuyan, Sasish Chandra Sharma, and Augustine George Masih — ruled in favour of the states.

Justice BY Nagarathna in her dissenting opinion held that the power to regulate industrial alcohol should be with the Centre.

### 'Overlapping' entries

\*\*Overlapping\* entries The core of the dispute arises from two "overlapping\* entries in the Seventh Schedule of the Constitution, which lays down the division of lawmaking powers be-tween the Centre and the states. Entry 8 of list II (State List) gives states the power to regulate "the production, man-ufacture, possession, transport, purchase and sale of intoxicating liquors\*, while Entry 52 of List I (Union List) allows the Centre to regulate industries as a whole to the extent "de-clared by Parliament by law to be expedient

late industries as a whole to the extent 'de-clared by Parliament by law to be expedient in public interest'. As alcohol and other products of fermen-tation industries that deal with non-potable (non-drinkable) alcohol are included in the Industries (Development and Regulation) Act, 1961 — a law passed by Parliament — the Centre argued that it 'occupied the field' when it comes to industrial alcohol, and that states could not regulate the subject.

states could not regulate the subject.
States, on the other hand, argued that industrial alcohol can be misused to produce
consumable alcohol illegally, which required
them to enact legislation.

### THE CASE AND THE BACK STORY

EXPLAINED LAW

Taxing industrial alcohol

Can industrial alcohol be included under the definition of 'intoxicating liquor'? What happens when the

<mark>1989:</mark> SC in Synthetics & Chemicals Ltd. State of Uttar Pradesh held that states 1989: SC in Synthetics & Chemicals L. Vistate of Uttar Pradesh held that stat only have the power to regulate "intoxicating liquor" meant for human consumption, and that only the Centre can regulate "industrial alcohol" after a declaration under the Industries (Development and Regulation) Act, 1961.

1990: UP imposed a licence fee of 15 paise/litre on denatured alcohol obtained from distilleries.

2004; Allahabad HC struck down the state's notification, relying on the SC's 1989 decision. The UP government

■ The tax levied on alcohol is a key component of a state's revenue, with state governments often adding an additional excise duty on alcohol consumption to further drive up incomes. For example, in 2023, Karnataka raised the Additional Excise Duty (AED) on Indian Made I quor (IML) by 20%.

■ In addition to the impact on the ability of states to generate revenue from alcohol, the verdict also provides clarity on Centrestate relations when it comes to control over industries. Wednesday's judgment affirms the power of states to pass laws on subjects in the State List, even in the face of the wide powers granted to the Centre regarding the control of 'Industries' as a whole.

■ The ruling also set aside the SC's 1990 judgment in Synthetics & Chemicals Ltd. y State of Uttar Pradesh, which held that 'intoxicating lignon' refers only to potable alcohol and, therefore, states could not tax industrial alcohol. (See box)

alcohol, (See box)

### Industrial alcohol

Industrial alcollOI
Industrial alcohol is essentially impure 
zohol that is used as an industrial solvent, 
zoing chemicals such as benzene, pyridine, 
soline, etc. in ethanol, which is produced 
fermenting grains, fruit, molasses, etc., — 
rocess that is called 'denaturation' — turns

went in appeal to SC.

2007: Sc referred case to a larger Bench to determine if the Synthetics Fchemicals decision needed to be reconsidered, since it did not consider relevant past Sc decisions including the decision of a 5-judge Constitution Bench in Ch. Tike Ramji v State of Uttar Pradesh (1951).

2010: 5-judge Bench referred case to a 9-judge Bench.

2024: 9-judge Bench led by CJI Chandrachud heard the case over six days and reserved judgment in April.

it into industrial alcohol. This makes the alit into industrial alcohol. This makes the al-cohol unfit for human consumption, and sig-nificantly lowers its price. Industries use this impure alcohol to

manufacture a range of products including pharmaceuticals, perfumes, cosmetics, and

pharmaceuticas, perturnes, cosmeries, and cleaning liquids. However, this same industrial or dena-tured alcohol is sometimes used to make il-licit liquor, cheap and dangerous intoxicants whose consumption poses severe risks, in-cluding blindness and death.

### 'Intoxicating liquor'

'Intoxicating liquor'

'Gl'Chandrachud held that entries in the
Seventh Schedule must be given a "wide
meaning", and be deemed to include "incidental" and "ancillary" matters related to the
entry in question.

He then applied this rule to the expression
"intoxicating liquor" under Entry 8 of List II,
holding that the "Entry seeks to regulate
everything from the stage of the raw materials to the consumption of intoxicating liquor".

The majority opinion, authored by the

The majority opinion, authored by the CJ, held that "even liquor which colloquially or traditionally is not considered as alcoholic liquor may be covered by the phrase intoxicating liquor if it produces the effect of intoxication".

The judgment rationalised this by finding that the word "intoxication" can also refer to poisoning and not just inebriation, indicating that the purpose of the expression "seems to be [to] enhance the scope of the Entry to cover liquor which has an impact on health". Justice Nagarathna on the other hand

found that the deciding factor must be th nature of the product" consumed, "Merel because there can be a potential misuse of "industrial alcohol", for example, by convert ing rectified spirit ("industrial alcohol") as beverage which has an intoxicating effect Entry 8 – List II cannot be stretched to includ such "industrial alcohol"," the dissent notec

### The 'federal balance'

The "federal balance'
Two interpretations are possible when
two entries in the Seventh Schedule are
overlapping': either states can be given the
power to regulate intoxicating liquor, or
Parliament can be allowed to take complete
control of the intoxicating liquor industry by
passing a law under Entry \$2 of list!.
To address this, the majority held that
"When there are two possible interpretations
of the entries the Quitt must chone the one

"When there are two possible interpretations of the entries, the Court must choose the one that maintains the federal balance". The ruling then held that intoxicating liquor under Entry 8 — which now includes 'denatured' alcohol and the raw material for alcohol production — falls within the exclusive control of states, I held that the Centre cannot regulate matters concerning intoxicating liquor under Entry 52 as this would result in "rendering Entry 8 fully redundant," While luxies Newardhan agreed that the

result in "reindering Entry 8 fully redundant". While Justice Nagarathia agreed that the Centre and Parliament could not enact laws to regulate "intoxicating liquor"; she disagreed on what can be included under this tag. While the majority opinion held that "intoxicating liquor" includes industrial or denatured alcohol, Justice Nagarathia came to the opposite conclusion. opposite conclusion.

The dissent reasoned that so long as 'Alcohol' and 'Fermentation Industries main as industries where the Centre can ex-ercise complete control under the Industries (Development and Regulation) Act, 1961, "state legislatures are denuded of their pow-ers to pass a legislation or to take any action"

# The UN force in Lebanon, its mandate and role, and Israel's aggression



Sanjiv Arora

ON OCTOBER 20, the UN force in Lebanon said in a statement that the Israel Defense Forces (UF) had used a buildoor to 'deliberately demolish an observation tower and perimete fence of a UN position in Marvavinin'. The United Nations Interim Force in Lebono (UNFIL) "reminded the IBF and all actors of their obligations to ensure the sighty and security of UN personnel and property and to respect the inviolability of UN prembes are all times."

and to respect the inviolability of UN at all times". It noted that breaching a UN po: damaging UN assets is a "flagrant violation of international law and [UN] Security Council resolution 1701". Israel has demanded that UNIFIL should vacate its positions along the Blue Line, a 120-

### Why are UN peacekeepers in Lebanon?

Why are UN peacekeepers in Lebanon?
UNIFIL was created by the UN in response
to israefs invasion of southern Lebanon, israel
had said it was acting to expel armed Pales
had said it was acting to expel armed Pales
had said it was acting to expel armed Pales
had said it was acting to Security Council
Resolutions 425 and 426, adopted in March
1978, UNIFIL was established to confirm the
withdrawal of israel forces from southern
Lebanon, restore peace and security, and to
help the Lebanone government in restoring
its control and authority over the region.
Southern Lebanon, which shares a border
with Israel, has been the site of repeated
conflicts between the IDF and Hezbollah,
Israel wasted its occupation of southern
Lebanon in 2000, but a fresh conflict broke
ut in July 2006, On August 11 that year, the

out in July 2006. On August 11 that year, the UNSC unanimously adopted Resolution 1701, which called for Israel and Lebanon to

support a permanent ceasefire, and signif-icantly expanded UNIFIL's mandate. The resolution stated that there would be no ammunition and armaments in southern Lebanon except those possessed

ength was augmented to 15,000 uni-med personnel, and it was assigned du-to assist the Lebanese forces in monioring and supervisory roles, along with providing humanitarian aid.

Are Israel's actions against international law?
Artaks on UN peacekeepers are in contravention of international law, However, despite condemnation, Israel's Prime Minister Benjamin Netanyahin has not backed down, and instead asked UNIFL to "move out of harm's way." In a way, he is asking them to cease performing responsibilities given to them by the UN Security Council. This is a violation of the sanctity and the mandate of the UN.
UN peacekeepers have come under attack in vanious parts of the world in the past, but these were by non-state actors. Many

tack in various parts of the word in the past, but these were by non-state actors. Many of Israel's actions do not behove the dignity, stature, and obligations of a UN member state. Earlier this month, the Israeli govern-ment declared UN Secretary General Antônio Guterres persona non grata and barred him from entering the country. Last

tion. Respect for the office of the Secretary General is part of the UNC harter. I strate has also repeatedly attacked the United Nations Relief and Works Agency for Palestine Refugees in the Near East (UN-RWA), alleging it has links with anti-Israe militant organisations, and called for it to be dishanded. UNRWA has rejected these allegations. More than 220 UNRWA officials have been killed in Gaza over the past year—the highest death toll in the history of the UN.

India is one of the largest contributors of troops to UNIFIL, alongside Indonesia, Italy, and Ghana. As of October 20, 2024, India had 903 personnel in UNIFIL, after Indonesia's 1,230 and Italy's 1,043.

India has had a presence in UNIFIL since 1998, INDBATT, the Indian battalion, is 1998, INDBATT, the Indian Dattailon, is renowned for its utmost professionalism, valour, and local outreach. In 1999, INDBATT built a public park in Ebel el Saqi in south-ern Lebanon, which has a statue of Gandhi, and is called Mahatma Gandhi Park. It was renovated in 2020. INDBATT also built a sta-

in Kawkaba village in Lebanon. In addition, INDBATT has helped local

communities with IT equipment, diesel generators, etc. India's medical mission, a component of the Indian battalion, has al-ways been highly sought after in the region.

## Israel alleges UNIFIL has not done its job in southern Lebanon, which has forced Israel to go after Hezbollah. To blame UNIFIL would not be fair. The

Israel to go after Hezbollah.

To blame UNIFIL would not be fair. The
mandate of UN peacekeeping missions is
not to engage in armed action except in selfdefence. As per UNSC Resolution 1701, it is
the Lebanese armed forces who are in contool of that area, with assistance from the
UNIFIL. Assistance does not mean that
UNIFIL will take armed action.

An important part of UNIFIL's mandate is
to render humanitarian assistance, which it
has been discharging admirably, in the face
of Israeli hostilities, UNIFIL has made it clear
that it will not weat let is position.

that it will not vacate its positions. Hezbollah's reality in Lebanon is multi-faceted and multidimensional, it is also a political and cultural force with significant public legitimacy — Hezbollah and its allies

have 62 of the 128 democratically elected seats in Lebanon's parliament. Many aver-age Lebanese probably believe Hezbollah's armed wing is the country's defacto defence force. However, this is not at all to say that the Lebanese defence forces have abdicated their responsibilities.

Where is the Lebanese army in all of this? Are they fighting against the IDF? This is not an Israel-Lebanon war. Thi

This is not an Israel-Lebanon war Libanon, and Lebanon is in self-defence mode, repeatedly calling for a ceasefire.

The Lebanese armed forces are highly profit of the country and the economic troubles it is facing, the army does have a severe resource crunch. It does not have a large budget, and its technology and armaments are meagre compared with the far more powerful and technically advanced Israeli military.

Sanjiv Arora is a former Secretary of the MEA. He was India's Ambassador to Lebanon from 2016 to 2019, and to Qatar from 2012 to 2016. He was head of UN-Political division at the MEA from 2005-08.

# THE IDEAS PAGE

### WHAT THE OTHERS SAY

"The US policy of denying Israel's genocide in Gaza is unlikely to change, even if there is a new US administration.. We can only hope that nations that still have conscience would finally come together to condemn Israel's genocidal acts and cristire that Israel agrees to a ceasefire agreement..."

— THE DAILY STAR

# **Learning & nation-building**

The 75th Constitution Day, on November 26, is a moment to reimagine our universities. The focus needs to be on education and research relating to Constitution's ideals and aspirations



C. I.A. A RUMAR.

THE CONSTITUTION OF India was adopted on November 26, 1949. While the vision and imagination of the framers of the Constitution was far-sighted, the reality of India at that moment was very different. At Independence, India's population was around 370 million, and women, on average, had six children. The age structure was very young, and over 80 per cent of the population was illiterate.

India had barely 20 universities and approximately 500 affiliated colleges in 1947. Student enrolment was around 2.5 lakh, and faculty members across all universities and colleges were about 20,000. Higher education was an absolute privilege, available only to the elite. Today, India has over 40 million students enrolled in higher education institutions and more than 1.5 million faculty members.

million students enrolled in higher education institutions and more than 1.5 million faculty members.

India has the largest population in the world. Fortly-seven per cent of Indians are believe the good of the properties of the

policy priority.
India commemorates the 75th anniversary of the adoption of its Constitution this year. Our higher education ecosystem, comprising more than 1,100 universities and nearly 50,000 colleges, must prioritise the study of the Constitution. The Viksit Bharat Vision for 2047 should focus on educating young India to appreciate the values inherent in the Constitution and why the document is the lodestar for development and social transformation.

I can adduce five compelling reasons why our universities should educate their students about the Constitution's history, philosophy, and evolution and its importance in recognising and enforcing people's fundamental rights and freedoms.
One, the Constitution as a site for creating collective consciousness. India is not a classic federation. Some continuing struggles and synergies inform the evolution of the idea of deliberative democracy in the country. Social and economic diversity has contributed to differing economic and human development levels across the states. As we commemorate the 75th anniversary, we must build a more vital collective consciousness to old con Constitution that binds us we must build a more vital collective con-sciousness of our Constitution that binds us



as people. This consciousness will have a di-rect and substantive bearing on promoting progressive nation-building ideas while shielding us from the consequences of sec-tarian perspectives. The framers of our Constitution were conscious of the imper-

tarian perspectives. The framers of our Constitution were conscious of the imperative of creating a collective consciousness of the people of India. They did that by providing flexibility and freedom to pursue a pluralistic idea of nation-building.

Two, the Constitution as a framework for identity creation. The Constitution has helped us to create, nurture and expand an Indian identity. Many of its provisions focus on protecting rights and freedoms and illustrating their inherent purpose for establishing a nation. The pluralistic identity of the people of India is reflected in the values that permeate the Constitution, especially its Preamble. In an influential article titled 'The rise of state-nations', Alfred Sepan, Juan Jiura, and Vogendra 'Vadavob-served,' ... 'State-nation' policies involve creating a sense of belonging (or 'we-feeling') with respect to the statewide political community, while simultaneously creating institutional safeguards for respecting and protecting politically salient socio cultural diversities. The 'we-feeling' may take the form of defining a tradition, bistory, and diversities. The 'we-feeling' may take th form of defining a tradition, history, and shared culture in an inclusive manner, with all citizens encouraged to feel a sense of attachment to common symbols of the state and some form of 'constitutional patriotism', "An Indian identity that peromotes values of 'constitutional patriotism' should define our aspiration to develop ideas for nation-building. Universities must shape that Indian identity through education and the process of learning.

Three the Constitution as a reason for form of defining a tradition, history, and

Three, the Constitution as a reason for celebrating diversity. The Constitution, par-ticularly its provisions on equality and non-discrimination, recognises the value of di-versity. Universities are the appropriate institutions for promoting diversity However, the diversity promoted in univer-sities must be about lived and shared expeion as a reason for sites must be about under and shared expe-riences. It is about understanding and ap-preciating that India is a land of diverse interests and multiple persuasions. The op-portunity to study the Constitution and the lived experience of meeting and interactThe Constitution as the basis for social justice. The theme

of social justice runs throughout the Constitution. As India celebrates the 75th anniversary of adopting the Constitution, the aspiration to advance the cause of social justice has never been more critical. Universities are institutions where through transformative education, the societal structure can be challenged and a new generation can become participants in an effort to achieve social justice. The constitutional project of promoting social justice can be realised only when higher education institutions institutionalise these ideas among the youth. India's young people must embrace the vision of building an egalitarian society.

ing with diverse people can help build an informed and enlightened citizenry. Four, the Constitution as an instrument of social and political empowerment. By abolishing untouchability in Article 17, the Constitution shook the foundations of the abolishing untouchability in Article 17, the Constitution shook the foundations of the practice of historically evolved caste-based discrimination. But it did not stop there, it also made it an offence to cause any disability arising because of "untouchability." The vision of the malers of the Constitution was far-sighted enough to recognise that the evil of untouchability cannot be quelled by merely proscribing it. The Constitution sends a powerful message to our nation that its foundations are the values of liberty, equality and fraternity. Universities are places where values are formed, shaped and changed. There is no better place where the study of constitutional values can have a powerful impact.

Five, the Constitution at the basis for social justice. The them ed social justice runs throughout the Constitution. As India celebrates the 57th anniversary of adopting the Constitution, the aspiration to advance the cause of social justice has never been more critical. Universities are institutions where

cause of social justice has never been more critical. Universities are institutions where through transformative education, the societal structure can be challenged and a new generation can become participants in an effort to achieve social justice. The constitutional project of promoting social justice can be realised only when higher education institutions institutionalise these ideas among the youth. India's young people must embrace the vision of building an egalitarian society.

The 75th anniversary of the Constitution should help us reimagine our universities to focus on education and research relating to its ideals and aspirations. It should educate and empower the youth to understand and appreciate the historical struggles that resulted in our freedom and the vision of the framers of the Constitution leading to the building of the Republic of India. critical. Universities are institutions where

The writer is founding Vice Cha OP Jindal Global University and Dean of Jindal Global Law School. JGU is establishing India's First Constitution Museum at its University Campus in Sonipat, Haryana

## With refugees at the centre

SC judgment on Section 6A speaks language of statecraft. Verdict should guide protection of rights of vulnerable



MOHSIN ALAM BHAT

THE SUPREME COURT of India's recent de-cision upholding the legal validity of Sectior 6A of the Citizenship Act is the most conse-quential judgment on the constitutional law of citizenship. Section 6A was enacted fol-

orderite chackstappers to the most control to the control to the control the control the control to the control the control to the control to the control the control to the control the control to the control

ment has argued that laws on cruzerism pare an expression of sovereignty and should be immune from judicial scrutiny, but this rul-ing rejects that notion entirely.

an expression of sovereignty and should be immune from judicials cruitn, but this ruling rejects that notion entirely.
Crizenship laws, the Court held, are subject to constitutional limitations and judicial review, providing a clear indication that the CAA will likely face similar scrutiny.
A second critical dimension of the ruling is its discussion on constitutional values, particularly the principle of fraternity. The pertitioners argued that the influx of migrants undermined Assamese culture and violated their rights under Article 29 of the Constitution, which protects the cultural and educational rights of minority citizens. They claimed that the presence of these migrants was eroding their cultural identity, a violation of their rights.
The Court, however, took a broader and more progressive view of fraternity, rejecting the argument that demographic change constituted a violation of culture. Fraternity, the judges leld, is about fostering "interconnectedness" among citizens, not her light to "choose one's neighbours." This rejection of a narrow cultural protectionist view marked a serious blow to Assamese political claims. The judgment emphasised that demographic change does not inherently violate cultural rights—a significant step in the broader debate over how to balance majority cultural concerns with the oader democratic principles.

The judgment also delves into the question of equality in citizenship laws. The pec-

titioners argued that Assam was unfairly burdened by Section 6A, which imposed a different cut-off date for citizenship com-pared to the rest of India. The claim was that Assam was disproportionately carrying the weight of immigration while other border states were not subjected to the same rules. Beleant because the right to gould in any

weight of immigration while other border states were not subjected to the same rules. Relevant here was the right to equality under Article 14. The right requires that any divergent treatment — so-called "classification" among groups — must be rational and justified by the purpose of the last ordinality, acknowledging the historical context of the Assam Accord and Assam's unique challenges with migration. However, there was a divergence between the justice or how much deference the courts should give to Parliament in this matter, Justice DY Chandrachud, argued that when core rights and constitutionally significant subjects are at stake, courts must intervene, Justice Surga Kant (for two other judges) took am more deferential stance, which suggests that a Parliament's Cassification of groups for legal purposes should be respected, provided it aligns with a legitimate public objective. This divergence on the degree of judicial deference will have serious implications for the CAA case. The CAA's stated objective is help persecuted minorities, Are religious discrimination. Will the Court considerationship and more deferential proposach?

This debate on judicial deference will asso espirilicant to allow for broad parliamentary discretion, or adopt a more deferential approach?

This debate on judicial deference will also test how seriously the Court treats a constitutional principle. Will

This debate on judicial deference will also test how seriously the Court treats sec-ularism as a constitutional principle. Will secularism be interpreted as a core valed alongside fraternity, that demands legal protections for all citizens, regardless of their religious dentity? Will secularism be interpreted—in fact as an extension of fraternity—as a concept respecting diversity and solidarity?

Despite its progressive framing of frater-nity, the judgment is striking for what it nity, the judgment is striking for what it leaves out: The voices of the migrants themselves. The Court framed the issue as a balancing act between the government trying tomanage the costs of migration and its humanitarian concerns. But absent from this marative are the refugees, the stateless, and the multigenerational immigrants who are most affected by these laws.

The Court did not fully engage with the rights of those who have fled persecution or whose lives are now mirred in uncertainty. It failed to consider whether the state has an obligation to protect the rights

tainty. It failed to consider whether the state has an obligation to protect the rights of refugees and stateless persons, who re-main invisible in the legal framework. The judgment speaks the language of statecraft but if does not fully account for the human rights of the marginalised. This omission is significant. As India continues to grapple with its citizenship lawk, the Court must address the rights of the most vulnerable. The ruling on Section of A while morressive in some researcts.

6A, while progressive in some respects, leaves the fate of these individuals uncertain. With the CAA case on the horizon, the Court once again has an opportunity to centre the rights of refugees and stateless persons in its legal reasoning.



## Children must come first

I DISAGREE

A column in which readers tell us why, when they differ with the editorial

positions or news 'The Indian Expres

Fear of misuse is no reason to dilute strict laws, action against child sexual abuse

THE SUPREME COURT'S (SC's) recent judg-ment on Child Sexual Exploitative and Abuse Material (CSEAM) is the call of the hour and addresses a problem, the enormous propor-tions of which are lost on most people. The mere possibility of misuse, as argued by an

tions of which are lost on most people. The mere possibility of misuse, as ragued by an editorial in this newspaper (Terms of protection), E. Spetmebre 26] cannot be a reason to put children at risk.

Some facts. The National Centre for Missing & Exploited Children (established by the United States Congress) has reported that 46,99.515 videos of CSEAM were uploaded in India, depitcting a chilling reality—India is leading the world in uploading CSEAM in the form of photos and videos. Just Rights for Children Allance, a coalition formed by five NGOs with over 120 NGOs as partners, approached the Supreme Court retying upon the above Report and data published by the National Crime Records Bureau (NCRB) that reflected a phenomenal increase in child pornography cases from 44 in 2018 to 1,171 cases in 2022.

To arrest this disturbing trend, the Government of India signed an MoU with NCMEC, US, under which receipt and analysis of Cyber Tip line Reports (CTR) are carried out which detail activities releated to CSEAM.

These are then shared with the respective states/Union Territories for further action. The MoU and the actions being taken using this technology lead the agencies straight to the culprits.

The Kerala Police's impressive initiative made the best use of this information. It constituted a specialised unit for preventing on-line child exploitation and carried out various covert operations. It was found that child covert operations. It was found that child pornography groups operating over WhatsApp and Telegram and a number of similar platforms had increased tremendously in recent years. It started identifying persons downloading uploading CSEAM from the internet by collecting IP addresses, particularly making use of the reports available under the MoU. The Kerala Folice was DEAR EDITOR,

MoU. The Kerala Police was able to seize over 200 devices containing graphic and illegal videos and pictures of children in a compromised state.

It was found that many of these videos and photos in the CSEAM were of local children, ranging in the age group of five to 16 years.

The necessary corollary was that local children have been haplessly involved by making covert videos/taking photos through sypy cameras, etc. More significantly, the presumption that CSEAM available on the laternet is from other countries or fai-off Internet is from other countries or far-off places and that the act itself has not taken place here and is only being viewed here is completely false. This eye-opener is fundamental to understanding not only the gene-sis of the problem but also in comprehend-ing how to tackle it. A somewhat similar disclosure was made

recently by certain One Stop Centres that run in all districts in Delhi to aid survivors of sexunal datuse. Cases of teenagers being raped or forced into sexual acts/abuse on the threat of their videos/photos, real as well as morphed, being made public are on the rise.

The SC has made it abundantly clear that while there might be a difference between the act of viewing.

CSEAM and the serve force.

there might be a difference between the act of viewing is tell us they differ editorial sor news age of me the same intent, and it is the intent that makes the crime heinous. This finding is the fulcrum of the judgment. Ergo, viewing CSEAM, even in the confines of one's home, even one time, constitutes an offence. It has also stated that demand will always incubate the corresponding production of CSEAM. Abusers are motivated to create and distribute the material to satisfy the demand. Rilling the demand by prosecuting the viewing of CSEAM would eventually lead to a decrease in its production.

The Kerela Police's report is rather

its production.
The Kerela Police's report is rather

poignant. It reflects on the vulnerability of children who might not even know how they have been exploited till it is too late. The SC has also held that the knowledge that their

have been exploited till it is too late. The SC has also held that the knowledge that their abuse is being watched by countless strangers, sometimes much after the act, for years to come, exacerbates the wounds. The realisation that our children might be walkling on the road or eating at a restaurant and strangers identify him/her from CSE/AM wailable freely on the internet, maybe by way of aspy camera installed in a school/public bathroom/changing room, is deeply disturbing. This affects every one of us. In the words of Justice JB Pardiwala, who authored the judgment with sensitivity and perceptiveness, CSE/AM perpetuates a culture in which children are seen as objects to be exploited rather than as individuals with rights and agency. While prosecution in cases of CSE/AM is imperative, in the longer run, what will make the most difference are preventive measures such as sex education and awareness, in schools, children's homes, etc. Essentially, the prevention of crime is paramount for ensuring a safe space for our children, both online and offline. I can only hope that in implementing this judgment, law enforcement agencies, schools and governments realise that the exploitation of a child envywhere, is exploitation of a child envywhere, is

The writer is a litigator practising in the Delhi High Court and Supreme Court

### LETTERS TO THE EDITOR

THIS REFERS TO the editorial, 'Breaking stalemate' (IE, October 23). It is quite encouraging that both India and China have agreed to revert to the pre-Galwan loca-tions. India has to verify the progress through continuous monitoring, it is imperative to establish peace at the Line of Actual Control before any moves in the economic, communication and other fields. The past trust deficit will be dissolved if there is mutual respect and well-coordinated mutual consultation between the two nations in the de-escalation and disengagement process.

Subhash Vald, New Delhi

THIS REFERS TO the editorial, 'Breaking THIS REFERS TO the editorial, 'Breaking stalemate' (IR, Cotober 23). In welcome news, India and China have agreed toresolve their four-year military standoff. Assuming that the patrolling agreement heralds a return to status quo ante, India shouldn't relent on its past decisions like banning Chinese apps. Similarly, FDI by Chinese firms should be judged on a case-to-case basis. There can't be a free licence for investment by Chinese firms. nt by Chir in India, India's relations with China can he repaired but at a slow pace. There are no instant solutions in global politics. It can't suddenly be business as usual with China.

Sanjay Chopra, Mohali

### COVERING GROUND

THIS REFERS TO the article, 'Social ill and legal response' (IE, October 23). The guidelines of the Supreme Court are wel-come. The Prohibition of Child Marriage Act (PCMA) in cases where minors marry by choice requires a closer look. The reby choice requires a closer look. The re-sultant destitution of girls due to hus-bands taking undue advantage of the marriage's void status to remarry is un-just. This judgment may not succeed in uphokling the true essence of absolute justice on these harsh ground realities, but it may shed some light on the mis-use of the rule of law. Shaswat Jena, Chaziobad

### Where onus lies

W HERE ONUS LIES

THIS REFERS TO the article, A nascent
but welcome thaw (IE, October 21).

External Affairs Minister S Jaishankar's
visit to Pakistan to participate in the
SCO summit, is significant. Bilateral
ties have been in deep freeze since the
Pulwama terror attack and the retaliatory Balakot airstrikes in February
2019. While one cannot dispute that
been countries must make focuserit both countries must move forward both countries must move forward and tap the full potential for bilateral trade, it must be pointed out that the onus lies on Islamabad to create a conducive atmosphere. Khokan Das, Kolkata

### WORDLY WISE

LIFE IS MADE OF SO MANY PARTINGS WELDED TOGETHER.

- CHARLES DICKENS

## The Indian **EXPRESS**

RAMNATH GOENKA

BECAUSE THE TRUTH INVOLVES US ALL

# An American deadlock



Gender, race, class, state will together determine who wins the upcoming US elections

Harris appears to be ahead in national vote, but it is the electoral college that will

determine who wins - it is possible to win the national vote but lose the presidential

election, which has happened five times in American

history, twice recently — in 2000 and 2016. But how

would such divergence come about? The electoral college has 538 votes: 435 for the

House of Representatives, 100 for the Senate and three

Senate, every state has two seats regardless of its

population size. This makes electoral college not entirely based on national

popular will.

for Washington DC. The House is entirely population-based. In the

## PERPETUAL EMERGENCY

NCR's pollution crisis needs year-round action, Policymakers must invest in technology, public transport, nudge change

N SEVERAL OCCASIONS in the past five years, the Supreme Court has said that the Right to Clean Air is essential to the Right to Life. On Wednesday, the Court referred to this Fundamental Right once again while upbraiding the Centre and the governments of Delhi and its neighbouring states for failing to ensure a pollution-free environment in the Capital and its adjoining areas. NCR residents have been breathing "very poor" quality air for the past four days. The problem, as the SC pointed out, stems from an unfortunate lack of resolve from both the Centre and state pointed out, stems from an unfortunate lack of resolve from both the centre and state governments. The data does show that seasonal stubble burning — one reason for the pollution spike before winter — has come down in some parts of Delhi's neighbourhood. However, the gravity of the problem is such that incremental changes are insufficient to make an appreciable difference in air quality. The SC was especially scathing of the Centre and state governments for their failure

The Sc. was especially scattling or the Centre and state governments for their talling to the effectively implement the more than three-year-old Commission on Air Quality Management (CAQM). Act. The Act had created an eponymous panel, the CAQM, to coordinate between different agencies whose functions have a bearing on the NCR's air quality. In the past, the problem would get compounded because these agencies would often work in silos, and at cross purposes. Delhi, Haryana and Punjab used to be at loggerheads work in situs, and act cost purposes, bein, in Argana and rujaio used to de a foggerieads on the issue of stubble burning. In 2022, after the APA assumed office in Punjab, there were hopes that the state government would coordinate better with its counterpart in Delhi in resolving the longstanding problem. However, politics continues to have its say on government-level conversations on the issue. After 2022, the needle of the Delhi gov-ernment's accusation has pointed towards Haryana and now Uttar Pradesh, even as the data continues to implicate all three states. On Wednesday, the apex court again called out the Punjab and Haryana governments for their failure to check farmers from setting crop residue on fire. The problem also is that the CAQM has failed its mandate of driving change in the post-harvest practices of farmers in Delhi's neighbourhood. The agency change in the post-naives practices of animels in Foreignouninood. The agency has scarcely taken a meaningful step to bring all parties to the negotiating table. It has, at best, functioned as an emergency resolution body, when the problem at hand requires round-the-year vigilance. Though crop-residue burning is a seasonal phenomenon, nudg-ing farmers to desist from the practice should not be left to the last minute. The limits of enforcing punitive measures, post-harvest, should have been evident from the experience of recent years, Similarly, emergency measures are inadequate to address most other fac-

or tectury years, animary, et the gracity must access that they only in the control of the contr in public transport as well as nudging people to make behavioural changes. All this can-not be undertaken in an emergency mode.

## CRUDE AND IMPROPER

TMC MP Kalyan Banerjee's actions hurt his party politically and are a disservice to the people he represents

FOUR-TERM MEMBER of Parliament — a Jawyer and among the most sen-ior leaders of his party — should not require lessons in either civics or civil-ity. On Tuesday, Kalyan Banerjee of the Trinamool Congress was suspended Bill. The disciplinary action against him came after he smashed a glass bottle during the DP meeting, reportedly during a heated exchange with former Calcutal High Court judge and BJP MP Abhijit Ganguly. Committee Chair Jagdambika Pal has alleged that Banerjee and by Mr Annitic dainyui, Committee chair jaggamoisa ra has aireged anta sharejee was attempting to throw the bottle at him — the TMC leader ended up injuring himself. Parliament — including its committees — is a place for dissent, debate and even vocifer-ous argument. It is not — and must not become — an avenue for abuse and violence. Banerjee, unformately, seems not to realise this, And at a time when the Opposition is trying to gain ground, and at times, the moral high ground — after a decade in relative political wilderness - his actions are a terrible letdown.

pointical wilderness — nis actions are a terrible lectorym.

A representative to the Lok Sabha carries the privileges and expectations of the people who voted for him. Unfortunately, the incident this week is not the first time Banerjee has pushed the boundaries of propriety. Last year, when 147 MFs had been suspended and the Opposition was besieged, the TMC MFs crude minicry of Vice Presiden Lagdeep Dhadridar drew unwarranted attention. In fact, throughout Dhankhar's turnultuous tenure as Governor of West Bengal, Barejee constantly avoided the high ground — he called Dhankhar a "blood-sucker" and filed cases against him. Earlier this year, during the Lok Sabha campaign, he re-ferred pejoratively to CPM candidate Dipsita Dhar's complexion, and in 2009, he made offcolour and unsubstantiated remarks about then West Bengal CM's personal habits.

coolur and unsubstantiated remarks about their west exequel un't personal nations. Banerjee's conduct at the parliamentary committee meet, then, is no aberration. Given his position and seniority in the TMC, it can also be seen as part of what ails the party, Into its third term in office in West Bengal, and as the fourth-largest party in the LoK sabha, the TMC is no longer just a party of protest and the street. While its origins were "anti-es-tablishment" in an era of Left dominance, it is now part of the power structure. Its leaders, with their words and actions, cannot be so immature as to resort to abuse and vio-lence. Banerjee's behaviour is not just politically counterproductive. It also shows an unconscionable disregard for the processes of Parliament and the people he represents.

## So short, farewell

There is more to a New Zealand airport's attempt to limit goodbye hugs to three minutes than meets the eye

ORRY, ASELTON John sang, may very well be the hardest word, but a close second is goodbye. Who knows when that night might come when the same two ships pass each other again? It's no wonder that people tend to linger over their parting stretching it out into farewell parties and dinners, drawing out those last few mo-

stretching it out into farewell parties and dinners, drawing out those last few moments to postpone, if only for a second or two more, the pangs of parting, It's an all-to universal experience, yet New Zealand's Dunedin Aliport is having none of it, going by a sign in its drop-off zone: "Max hug time 3 minutes. For fonder farewells, please use the car park." Photographs of the terse sign have been widely shared this week, eliciting outraged questions about how far an airport could go to ensure a smooth flow of traffic, people and their belongings, with its "hug police" and violation of trawellers "human rights." Officials have been quick to disclaim any actual measure to time people's hugs — noun-formed buzzkill will be hanging around the drop-off zones with a stopwatch. The sign is more a suggestion and less an injunction, a reminder to those lingering over their adieus to be mindful of the fact that airmorts are busyralease, where the dithester hold-unby one

more a suggestion and uses an injunction, a reminuter to mose lingering over their adeuts to be mindful of the fact that airports are busy places where the slightest hold-up by one person can end up derailling someone else's vacation plans. The real question, however, is how Dunedin Airport arrived at the specific duration of three minutes for a hug. Were travellers interviewed and studies conducted at the airport? In any case, the airport's CEO pointed to research that shows a 20-second hug is more than sufficient for a hearty dose of the feel-good hormone oxytocin, He also pointed out that the quicker the hugs, the greater the number of people who can experience them. So, far from being the enemy of love that it's been painted as, the airport just wants to spread the love around a bit more. Can one really complain about this?

### ASHUTOSH VARSHNEY

NOVEMBER 5 IS America's election day. It is NOVEMBER 5 IS America's election day, It is hard to predict who will win the presidential race: Kamala Harris or Donald Trump, Current polls suggest a very tight contest. Which way it finally turns will depend on a host of factors, some uniquely American, especially the electoral college. The US was famously called by Samuel Huntington "a Tudor Polity", roughly meaning extreme decentralisation and no national uniformity. States in the US wood for the proportion of the properties of the propert Tudor Polity', roughly meaning extreme decentralisation and no national uniformity.
States in the US not only have disproportionate power; they also have quite different electoral rules. Unlike India where the Election
Commission conducts and certifies electoral
results, that power in the US belongs to states.
And such power, most of all, is embodied in
the concept of an electoral college which is,
comparatively speaking, an unusual institution. It has the capacity to undo popular will.
Let us begin with a larger national-level
overview, which will allow us to unpack the
intricacies of the electoral college later. The US
has a population of roughly 325 million, and
there are approximately 245 million eligible
voters. If the rurnout is as high as 66-67 per
cent, the level it touched in 2002, among the
highest in decades, anywhere between 160165 million vectors will be cast. That will make
it the third largest election overcise in 2024,
exceeded only by India and Indonesia.

The four largest voting groups by ethnic-

The four largest voting groups by ethnic-ity/race are the Whites (67 per cent), Latinos/Hispanics (13 per cent), Blacks (12 per cent) and Asians (5 per cent). The political in-clinations of the three proporties are self-adcell jaun relatis (3 per cent), rine poundes climations of the three minorities are easily described. In 2020, these groups voted 65-87 per cent in favour of the Democratic party, with Blacks going as high as 87 per cent. According to the most recent polls, vote for Democratis is down in all three categories, but it is not necessarily going hungly in afour or Trump.

The possible shift among Black men has come to be wided vorted especially utility after Personer to be wided vorted especially after Personer.

The possible shift among Black men has come to be widely noted, especially after President Obama exhorted them to exercise wisdom and sense, not conventional gender prejudice. Compared to women, 7-8 per cent fewer men are saying they will vote for Harris. According to James Carville, a long-time adviser to Democrats who shot to fame as lead strategist to Bill Clinton in 1992, the

reason is that some Black men think the reason is that some Black men think the Democratic party has become too feminised. They are unwilling to accept a female presi-dent. But this problem may not be confined to Black males. The US has always had a made president. Is it ready to accept a woman as the nation's highest leader and commander-in-chie?? Some believe Hilary Clinton also suffered for this reason. What can we say about the White vote? Its distion appears to be both on presid and

What can we say about the White vote? Its division appears to be both on racial and class lines, especially if education can be viewed as an indicator of class. The Pew Research Center reports that Republican voters are "overwhelmingly White", accounting for 79 per cent of the total vote for the party. And "overall, about half of Republican voters (5) per cent jar eWhite adults without a college degree, making them the single largest blice within the party when looking at race, ethnicity and education together."

Let us examine these numbers a bit differently. According to the US Census Bureau, only

Let us examine these numbers a bit differ-ently. According to the US Census Bureau, only 38 per cent of the US population (age 25 and older) was college educated in 2021, and 42 per cent of White population belonged to this category (as compared to 28 per cent of Black, 21 per cent of Hispanic, and 61 per cent of Asian communities). Nearly two thirds of White support for Tump is non-collegeedu-cated and only a third college educated. In on-White communities, the educationnon-White communities, the education non-White communities, the education-based class polarisation is not so sharp. Trump is likely to get only 31-32 per cent of non-White, non-college educated vote, with nearly two thirds of non-White non-college vote go-ing to Harris. In sum, most college-educated Whites would vote for Democrats and most non-college-educated Whites for Republicans, whereas for non-White commu-nities, ethnicity and race would trump class. But, after all is said and done, these country-leux discoversions are not more to be deci-

But, after all is said and done, these country-level disaggrepations are not going to be deci-sive. Harris appears to be ahead in national vote, but it is the electoral college that will de-termine who wins—it is possible to win the national vote but lose the pre-sidential election, which has happened five times in American history, twice recently—in 2000 and 2016, But how would such divergence come about?

The electoral college has 538 votes: 435 fo The electoral college has 538 votes: 435 for the House of Representatives, 100 for the Senate and three for Washington DC. The House is entirely population-based. In the Senate, every state has two seats regardless of its population size. This makes the electoral college not entirely based on national popular will. Rather, the popular will gets a coating of small-state bias. Essentially, towin the presidency, a candidate must obtain 270 votes of the electoral college. Some states such as

small-state bias. Essentially, to win the presi-dency, a candidate must obtain 270 votes of the electoral college. Some states, such as California and New York, aer reliably Democratic, while others, like Texas and Florida, unquestionably Republican. As of now, Harris is sure of 226 votes, and Trump 219. To be president, the former needs 44 more elec-toral college votes, and the latter 51. Where will these votes come from? From the so-called battleground or swing states. Currently, there are seven such swing states: Pennsylvania (19 votes), Georgia (16), North Carolina (16), Michigan (15), Arizona (11). Wisconsin (10), Nevada (6). They are dead-locked. Because they can swing an election, these states take up a disproportionate energy of campaigns. Harris and Trump always seem to be campaigning there (over three decades in Massachusetts, nearly always Democratic, I have seen only one candidate campaign. Barack Obama came in 2012, and only once). Aconceptual category can be used to sum.

Barack Obama came in 2012, and only once).
A conceptual category can be used to sum up the situation. This election will depend on what scholars call "intersectionality." An unpredictable combination of gender/race/class/state will determine who wins. But whichever way this mix ultimately settles, it will be, substantially though not wholly, in answer to two fundamental questions.
Is America ready for a Black woman president, or would White supremacy make a comeback via Trump? Will America continue to be engaged in the world, or would it descend into a world of Trumplan tanffs, immigration cuts and isolationism?

The writer is Sol Goldman professor of International Studies and the Social Sciences It Brown University, where he also directs the Ixena Center for Contemporary South Asia at the Watson Institute

## Indian Ocean Churn

India must guard its strategic interests after UK's handover of Chagos to Mauritius

ABHIJIT SINGH

THE UKS DECISION to transfer sovereignty of the strategically significant Chagos Archipelago to Mauritius is a watershed moment in international relations and maritime geopolitics. This long-standing issue had simmered for decades until London settled it to the apparent satisfaction of ley stakeholders while securing its own strategic interests. The transfer not only addresses the colonial legacies but also reshapes power dynamics in the Indian Ocean, with significant implications for maritime strategy and regional security. In many ways, this outcome was inevitable, given the mounting pressure on the UK from the International Court of Justice, the UN General Assembly, and several regional states including India India has been a vocal advocate of the decolonisation agenda, reinforcing the Mauritain cause and asserting its leadership role in the Global South. With its diplomatic stance under increasing scrutiny, the UK likely saw this as a necessary move to THE UK'S DECISION to transfer sovereignty of

diplomatic stance under increasing scrutiny, the UKI likely saw this as a necessary move to align with the international consensus. Strategically, the deal holds substantial significance. While it grants Mauritius full sovereignty, it ensures US-UK control of the military base at Diego Garcia for 99 years. For India, the principal security provider in the Eastern Indian Ocean, the implications extend far beyond potential access to Diego Garcia's military facilities, touching on broader themes of strategic and the control of the military facilities, touching on broader themes of strategic and the control of the con of strategic autonomy, regional alliances, and the evolving balance of power in the Indian

Ocean Region (IOR). Given India's close military ties with the

US and UK, Diego Garcia could provide the Indian Navy with a valuable forward base for maritime patrolling, anti-piracy operations, and intelligence gathering. With increasing Chinese naval activity in the IOR, India could leverage closer logistical and military cooperation with the US to counterbalance China's maritime expansion. However, India's proximity to the US mil-itary's prime Indian Ocean facility could com-To be sure, Chagos

itary's prime Indian Ocean facility could com-plicate its broader calculus. Diego Carcia is not just any American base; it is a hub for US nu-clear submarines and a levy staging ground for naval operations in the Western Indian Ocean — a theatre where India—US cooperation has traditionally been constrained. Using this fa-cility raises larger questions about India's strategic autonomy, especially as the Indian Ocean becomes more contested amid rising tensions in the Red Sea and the escalating Iran-Iesael conflict. iei connict. India has long adhered to a policy of strate-

India has long adhered to a policy of strate-gic autonomy. Deeper milistray cooperation with the US could be seen as a shift towards aligning with the West, potentially undermin-ing India's efforts to remain an independent player capable of engaging with a range of partners, including non-Western actors like Russia, Iran, and other Middle Eastern pow-ers. While Diego Carcia is pivotat to US oper-ations in the Middle East, India knows ten-sions between Ieroel and Iero-complicate its sions between Israel and Iran complicate its options. While India leans more toward Te Aviv, overt cooperation with the US, Israel's main ally against Iran, could strain India's ties

with Tehran and other non-Western partners.

with Tehran and other non-Western partners.
Chagos' handower is exactly the outcome India had long hoped for. Delhi ewen played a behind-the-scenes role to encourage both sides to reach such an agreement. But, while it sees the continuation of the Diego Garcia base under Us control as a positive, it is likely to temper its responses to project a balanced stance, avoiding the perception of excessive alignment with the US-UK axis.
Even so, India's strategic community will likely view this development through the lens of China's growing presence in the Indian Ocean. With a naval base in Djibouti and likely future bases in Palakstan, China is positioning itself as a significant Indian Ocean power. Despite having to manage the expectations of other regional states — many of whom have close ties with China — India's main imperative will be to counterbalance Beijing's influence in the Western Indian Ocean.
India is also mindful of Mauritius security

ence in the Western Indian Ocean.
India is also mindful of Mauritius' security
needs, Port Louis will likely seek New Delhi's
assistance in capacity-building, particularly in
monitoring its Evclusive Economic Zone (EEZ,
and safeguarding its maritime assets from illegal fishing and other threats. Given its own
concerns over Chinese intrusions, India has a
vested interest in strengthening Mauritius' security capabilities. The ley for India would be
to protect its interests, maintaining its image
as an independent regional power. as an independent regional power

The writer is head, Maritime Policy Initiative, ORF, New Delhi

### OCTOBER 24, 1984, FORTY YEARS AGO

### HEAD PRIESTS VS GOVT

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both sides to reach such an agreement. But, while it sees the continuation of the Diego Garcia base under US control as a positive, it is

likely to temper its responses to project a balanced stance,

avoiding the perception of

excessive alignment with the US-UK axis.

THEAD TRIESTS VS GUVT
TWO ROUNDS OF prolonged talks between
Sikh head priests and the government representatives failed to sort out the controversy of
the Nihang chief of Buddha Dal, Baba Santa
Singh's intention to visit Akal Takht to offer
prayers on Divall. The government representatives, however, reached an agreement with
both the parties on maintaining law and order on the occasion.

US BACKS INDIA

AFTER TWO DAYS of talks with the Indian gov-ernment, the US Assistant Secretary of State,

Richard Murphy, came out with a statement "reiterating" the US conviction that India has no intention of attacking Pakistan. Murphy's statement was apparently aimed at assuag-ing Indian anger over the statement by the US Ambassador in Pakistan, Deane R Hinton, por-traying India as a potential aggressor.

### India-Mauritius Talks

INDIA ASSURED ALL possible assistance to us in its dev opment activity and agreed to enlarge areas of co-operation such as education, culture, technology, technical know-how and health. India's keen interest in the overall progress of Mauritius was conveyed to the Mauritian Prime Minister. Anerood Jugnauth, when he called on the vis-iting Indian President, Zail Singh.

### IANATA SPLIT

THE JANATA PARTY unit in Bihar split verti-cally with majority of legislators and MPs ow-ing allegiance to Karpoori Thakur, favouring entry into the newly formed Dalit Mazdoor Kisan Party (DMKP), headed by Charan Singh Nasan raday (Lovinez, piceateus by carlain Singir. The resolution adopted at the residence of Thakur authorised him to take a final decision on the evolution of a national alternative in the context of Opposition unity, preservation of democracy and national interest.

## Researchers meld AI and genomics to find thousands of new viruses

This risk may not hold for long, however, thanks to scientific approaches that combine genetics, gene-sequencing, and deep-learning methods

or most of modern history, people have overlooked viruses, even though they are the most abundant biological entity on

abundant biological entity on
the planet and carry immense ecological
significance. Viruses are found in every
nook and corner of the world – from soil
and water to the atmosphere and even
extreme environments like hot springs
and hydrothermal vents.

Viruses are obligate parasites; they
require a host to infect and replicate. This
relationship goes both ways. Thanks to
advances in research, scientists are
increasingly recognising viruses as agents
of disease but also as integral components
of ecosystems. Viruses drive genetic
evolution through horizontal gene
transfer, control microbial population
balance, and even affect biogeochemical
cycles.

They play critical roles in maintaining They play critical roles in maintaining biodiversity and may even influence climate regulation. Understanding their influence is thus key to unravelling the complexities of life on earth. Yet only a small fraction of the roughly 100 million to a trillion viral species has been 1/4milfo-4ft under identified to date

The unknown-unknown threat
Beyond their environmental roles,
understanding viruses is crucial for us to
anticipate emerging infectious diseases.
Some studies have estimated there are
around 300,000 mammalian viruses yet
to be discovered, many of which pose
zoonotic threats. Unlike microbes, which
scientists have studied using
culture-based methods, viruses have
remained understudied because of
challenges to culturing them.
The rapidly improving scale and
declining costs of nucleotide sequencing
have resulted in the widespread use of
genome-sequencing approaches to
understand microbes in the environment,
particularly in metagenomics studies.

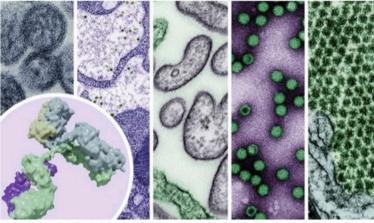
particularly in metagenomics studies. These approaches have transformed our ability to explore the vast diversity of microbes and viruses in the last decade. microoss and viruses in the last occade. In a metagenomic study, researchers analyse genetic material directly from environmental samples, allowing them to identify and study an organism without the need for culturing organic material like tissues in an intermediate step.

### Ruggier but faster

Buggler but faster
In recent years, metagenomics has helped scientists identify a staggering number of previously unknown microbes in diverse environments. These discoveries have significantly expanded our understanding of microbial ecosystems. As sequencing technologies continue to improve—
heconium more accurate, faster, and becoming more accurate, faster, and more affordable – alongside better global data-sharing practices, scientists are beginning to unlock the secrets of the microbial world at an unprecedented

pace.

In this regard, RNA viruses are of especial significance primarily because they mutate rapidly and adapt quickly to new conditions. More specifically, DNA viruses have more stable genomes, and their genome-replicating mechanism makes fewer 'mistakes' when they



A 3D rendering of an antibody (foreground left) and expandemic preparedness research efforts worldwide.

proliferate - whereas RNA viruses proinerate — whereas KNA viruses replicate faster with higher error rates. This characteristic is also particularly relevant in the context of emerging infectious diseases: COVID-19, Ebola, and influenza are all caused by RNA viruses.

Serratus ups the ante
One way to identify an RNA virus is to
track down and isolate fragments of a
specific gene that is essential for the virus
to replicate: RNA-dependent RNA
polymerase, or RdRP. RdRP is one of the
most ancient of genes, so much so that
many researchers believe it was among
the world's first genes. RdRP proteins
have regions that are well-conserved (i.e.,
which the organism preserves as it which the organism preserves as it evolves) and motifs in the protein that are essential for its function, which is to replicate RAN using a template. In 2022, Canadian researchers led by

repicate RNA using a template. In 2022, Canadian researchers led by Artem Babaian built an open source tool called Serratus. When scientists sequenced a gene, Serratus could match the sequence data with sequences known to be related to viral RdRP proteins. The researchers collected more than 10 petabytes of sequencing data encompassing 5.7 million sequencing libraries from diverse ecologies. When they fed this dataset to Serratus, it uncovered the presence of more than 100,000 viruses, considerably expanding the diversity of viruses known to humankind. Their findings were published in Nature in January 2022. In another study published in Science in the same year, U.S. researchers led by Ahmad Zayed at the University of Ohio used computational tools to sift through serverbers of ENA seramese data to

used computational tools to sift through terabytes of RNA sequence data to identify thousands of new RNA virus species. In particular, this team identified a new viral species to fill an important gap in our scientists' understanding of RNA virus evolution; a new species that dominated the oceans; and another species that could infect mitochondria (organelles in cellular organisms that

nderstanding viruses is crucial to anticipating emerging diseases. Studies estimate there are around 300,000 mammalian viruses yet to be discovered. Unlike microbes, viruses have remained

serve as the energy source, believed to have originated from microbes).

### A transformative effect

A transformative effect
An important shortcoming of the
metagenomic approach is that
computational algorithms typically look
for proteins very similar to sequences
already in databases. As a result they risk
missing proteins that have evolved and
changed form. This risk may not hold for
long, however. In a recent study,
researcher from multiple Chipsen. researchers from multiple Chines research organisations combined genomics with a transformer.

genomics with a transformer.

In deep-learning, a transformer is a type of machine learning model known for its ability to train rapidly to identify specific patterns.

In the study, researchers fed genome-sequencing data and data from ESMFold, another machine-learning model adept at predicting the structures of proteins, to their transformer and trained it to spot genetic patterns corresponding to RdRP.

Then they used the transformer to analyse large tranches of metagenomic

analyse large tranches of metagenomic data, where it identified more than 160,000 new RNA viruses. More than half of these viruses were described for the first time and many came from unique and/or extreme environmental niches, including hot springs, salt lakes, and air. Their findings are to be published in a forthcoming issue of Cell.

forthcoming issue of Cell.

Because transformers look for patterns rather than amino-acid sequences, they can find proteins even when they have diverged significantly. They can also help

computers design proteins based on these patterns, to perform functions that no natural proteins can. The discovery of new RNA viruses from new places in the environment is also important to our understanding of public health. Each new discovery betters our ability to identify and characteries similar viruses better, teaches us what to keep an eye out for and how/where to improve our methods, and helps us discover more species faster.

Fighting pandemics ere they begin On the ground, a key advantage of such discoveries is with regards to pandemic preparedness. As sequencing technology becomes more widespread and data-sharing increasingly the norm, we are equipped better than ever to identify pathogenic viruses with zoonotic potential – i.e. those that could spill over

pathogenic viruses with zoonotic potential -i.e. those that could spill over from animals to humans - long before they pose a significant threat. Early detection allows us the opportunity for timely intervention and even the chance to prevent large-scale outbreaks.

Looking ahead, the deeper understanding of viruses and their evolution through genomics, with help from ecological surveillance and machine-learning, will enhance our preparedness against pandemics. By continuously mapping viral diversity in nature and improving our understanding of viral-host interactions, we can also develop machine-learning models that can anticipate and mitigate viral spill overs. This future holds the promise of not only managing emerging viruses but also tackling the risk of pandemics at the microscopic rather than at the planetary scale.

(The numbers work at Karkinos

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huge meteorite impact about 3,26 billion years ago in a region called the Barberton Greenstone Belt, South Africa. REUTERS

## Ancient meteorite was 'giant fertilizer bomb' for life on earth

The space rock that slammed into the earth 66 million years ago caused a global calamity that doomed the dinosaurs. But that was far from the largest meteorite to

strike our planet. One up to 200 times bigger landed 3.26 billion years ago, triggering worldwide destruction at an even greater scale. But new research shows the disaster actually may have been beneficial for the early evolution of life by serving as "a giant fertilizer bomb" for the bacteria and other nerunzer nomb" for the bacteria and other single-celled organisms called archaea that held dominion at the time, providing access to key nutrients phosphorous and iron.

Researchers assessed the officers of the

Researchers assessed the effects of this meteorite impact using evidence from ancient rocks in a region called the Barberton Greenstone Belt in northeastern South Africa. They found ample signs from the geochemical signature of preserved organic material and fossils of mats of marine bacteria that life bounced back with anlomb.

life bounced back with aplomb.

"Life not only recovered quickly once conditions returned to normal within a few years to decades, it actually thrived," said Harvard University geologist Nadja Drabon, lead author of the study published on Monday in the journal Proceedings of the National Academy of

"At this time, the earth was something of a water world, with limited emergence of volcanoes and continental rocks. There

The meteorite spanned approximately 37-58 km, making it about 50-200 times the mass of

was essentially no oxygen gas in the atmosphere and oceans, and no cells with nuclei," Harvard geologist and study co-author Andrew Knoll said.

The meteorite was a carbonaceous chondrite rich in carbon and containing phosphorus. Its diameter was approximately 37-58 km, Drabon said, making it about 50-200 times the mass of

making it about 20-200 times the mass of the asteroid that wiped out the dinosaurs. "The effects of the impact would have been quick and ferocious. The impactor hit with so much energy that it and whatever sediment or rock it hit vapourised. This rock vapour cloud and dust ejected from the crater would have circled the globe and turned the sky black

dust ejected from the crater would have circled the globe and turned the sky black within hours," Drabon said.
"The impact likely occurred in the ocean, initiating a tsunami that swept across the globe, ripping up the sea floor and inundating coastlines. Lastly, a lot of the impact energy would get transferred into heat, meaning the atmosphere started heating up so much that the upper layer of the oceans started boiling," Drabon added.

It probably would have taken a few years to decades for the dust to settle and for the atmosphere to cool enough for the water vapour to return to the ocean, Drabon said. Microbes depending on sunlight and those in shallow waters would have been decimated.

But the meteorite would have delivered a large amount of phosphorous, a

a large amount of phosphorous, a nutrient for microbes crucial for the nutrient for microbes crucial for the molecules central to storing and conveying genetic information. The stunami also would have mixed iron-rich deep waters into shallower waters, creating an environment ideal for many types of microbes because iron provides them with an energy source.

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

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### THE SCIENCE QUIZ

## Magnetism's moment in the sun

### **OUESTION 1**

Particles like atoms have a property called spin, which can be said to point 'up' or 'down' at any given time. In a ferromagnetic material, the spins of all the particles are pointing in the same direction. But in X, the spins of adjacent particles alternate between 'up' and 'down'.

QUESTION 2
Sometimes, in nanoparticles of a X
material (from Q1), a form of
magnetism called Y appears. It
causes the spins of the material's
properties to randomly flip due to
temperature changes. Y
nanoparticles are highly
susceptible to external magnetic
fields. Name Y. CM C

Say a material is exposed to a magnetic field. When the field strength is changed just a little there is a disproportionately large change in the material. What is the magnetism of such materials called?

### QUESTION 4

In 1920, Wilhelm Lenz posed a problem to his student Ernst Ising Ising solved it in 1D in 1924, and Lars Onsager solved it in 2D in 1944. The solution is one of the simplest models to show a phase transition in magnetic materials.

Since around 2019, scientists have been reporting a new form of magnetism called Z. It can be

# described as a mix of ferromagnetism and X (from Q1) and has been reported in manganese telluride and ruthenium dioxide. Name Z.

Answers to October 22 quiz Bell-shaped curve described by Maria Agnesi - Ans: Witch of Agnesi
 Discoverer of theorem linking

Discoverer of theorem linking symmetries to conserved quantities
 Ans: Emmy Noether
 Mathematician who inspired the film Hidden Figures - Ans:
 Katherine Johnson

 Theorem whose proof benefited from the work of Sophie Germain Ans: Fermat's Last Theorem

Ans: Fermat's Last Theorem
5. Nurse who used mortality
dynamics to identify causes of
death during the Crimean War
Ans: Florence Nightingale
Visual: Maryam Mirzakhani
First contact: K.N. Viswanathan
Anmol Agrawal | Namdev Singh

Visual: This circuit shows the components of a device so sensitive to magnetic fields it may even detect the presence of a (hypothetical) magnetic monopole. 10 and 10 have the critical and bias currents, V is the voltage,  $\Phi$  is the magnetic flux, and X is a Josephson junction. Name the device. 20 CLAP

### EDUCATING FOR THE FUTURE

Union human development minister Dharmendra Pradhan

In the fourth Industrial Revolution, education In the fourth Industrial Revolution, educat must prepare students to be creators and managers of technology

## No piecemeal approach

Economic rationale must guide GST recast; strive for the broadest possible tax base

HREE GROUPS OF ministers (GoMs) under the Goods and Services Tax (GST) Council met recently and reportedly decided to recommend various rate tweaks, exemptions for lower health insurance covers, and a merger of the "compensation cess" with the highest tax slab at a future date. The GoM on rate rationalisation (GoM-RR), which has the crucial mandate for a comprehensive restructuring of the GST slabs with the idea to reduce their number and appropriately revise the tax's base, seems in no haste to go for an overhaul of the tax structure, even though it has a tight November-end deadline to the tax structure, even though it has a tight November-end deadline to firm up its views. This is despite the fact that the tax suffers from multi-ple infirmities and blemishes on its structural integrity. Instead, the GoM-RR in its latest meeting decided to propose changes in the tax rates for over 100 items, with the apparent objective of imposing higher differen-tial taxes on a few high-value items like expensive wristwatches and shoes. What is required at this juncture is a systematic, objective study of the GST's revenue performance over the last more than seven years of its exis-tence, devoid of the effect of the external shock (pandemic). GST revenues must be pitted against the mon-up from the comparable ner-GST taxes.

tence, devoid of the effect of the external shock (pandemic). GST revenues must be pitted against the mop-up from the comparable pre-GST taxes, and constructive suggestions made on how the tax's revenue productivity could be improved. According to some estimates, minus the cess proceeds, the collections are still stagnating at around 5.6% of GDP, much lower than in the pre-GST period. However, these estimates need to be borne out. Also, while one of the chief merits of GST is supposedly the stability of the regime, GST rates and base (exemptions) have seen more frequent changes, than even the excise/service tax and state value-added tax regimes that it had replaced.

In the beginning, the GST Council used to work with a much higher degree of common purpose, cohesion, and in deference of economic ratio-

In the beginning, the GST Council used to work with a much higher degree of common purpose, cohesion, and in deference of economic rationale. However, it now appears to be driven, to an extent, by political considerations, and short-term revenue goals, besides lacking in sufficient technical rigour. There is a talk of the weighted average GST rate having fallen much below the "revenue neutral rate" of 15-15.5%, as computed in the run-up to GST's launch, and the need to align the rates with the RNR. This could, however, prove to be a fallacious goal, as the RNR was computed with much fewer exemptions than currently available. The GST Council must live up to its mandate and take further concrete steps towards achieving the economic, productivity, and revenue gains that a comprehensive destination-based indirect tax on consumption was to yield. It must strive for the broadest possible tax base, with exemptions largely being limited to unbranded food and farm products. Exemptions largely being limited to unbranded food and farm products. Exemptions have cross-matching of inputs and outputs non-functional, and besmirch the GST's basic tenet. Whether the cess needs to continue after the current end date of March 2026 must be decided only after a thor-

the current end date of March 2026 must be decided only after a thor-ough analysis of the revenue potential of a revamped GST. The number of main GST slabs needs to come down to two from four at present, with a supplementing special rate for a small list of luxury and demerit goods. A proper basing of GST may allow the average rate to be 10% or below, which would mean, say, a merit rate of 8% and a standard one of 12%. That would be much less "taxing" than now.

### BETTER BET

SEBI MOVE A BIG STEP IN ADDING DEPTH TO SEGMENT, OPENS THE DOORS FOR RETAIL INVESTORS

# 'Put' option to aid bond market

N ISSUE WHICH has always been debated is getting more retail investors to invest in the investors to invest in the Retall interest is high in the equity seg-ment either directly or indirectly through mutual funds. When it comes to corporate bonds, however, the inter-est is more through the mutual fund route. Few individuals invest directly in corporate debt. One of the factors that has kept back retail investors is the difroute. Few individuals invest directly in corporate debt. One of the factors that has kept back retail investors is the difficulty in selling the security before maturity. In case of equity or mutual funds, there is a window open at any time for a sale transaction. For a listed debt security it is theoretically possible to be sold, but there may not be buyers as few securities are liquid. The absence of liquidity is the biggest challenge where the secondary market is not active for most securities. Unlike equity which is unique to a firm, a company would have multiple bonds listed at any point of time depending on the number of public issuances. Further, most buyers are institutions who would hold the securities to maturity to match their liability tenures.

Ris against this background that the Securities and Exchange Board of India's (SEBI) recent move to allow companies to announce a voluntary "put" option should be seen. In simple terms, an issuer of debt has the choice to give the investor a choice to redeem the security.

investor a choice to redeem the security investor a choice to redeem the security before maturity at specific points of time post-issuance subject to a mini-num holding of one year. There are requisite approvals to be secured from the board for this purpose. The valuation norms for this "put" option have been specified as also the minimum amount of the issue size under this umbrella. The regulation is comprehensive.

On the face of it, having a "put of option such issuances is a very word option on such issuances is a very word of option.

on such issuances is a very good idea. It is not mandatory as of now, but it may be



considered depending on how things work out. The new regulation fills the lacuna in the system, which has kept retail investors away, and hene is progressive. This becomes analogous to a fixed deposit with a bank that can be withdrawn any time after it is one pend subject to the

with a bank that can be withdrawn and with a bank that can be withdrawn and with a bank that can be a withdrawn and with a bank that can be a would not be the issue price but something different based on market conditions, intrively in a scenario of fising interest rates, the value could be lower. Therefore, from an investue could be lower. Therefore, from an investue could be compared to include players is to point of view, this should read well as it minic to a large extent the preferred bank deposit. What could be the incentive for a company to have a "put" option? Developing the corporate bond market to include more retail players is a necessity. To do this, one has to mimic what happens in the conventional

to have a "put" option?
The first is that it would have access to The first is that it would have access to awider investor base. Sebi has made the concept optional to the issuer and also given the prerogative to choose the category of investors who qualify. It could be specified for only retail or all investors. Second, the "put" issuances would go with a different international Securities identification Number (ISIN) and not clubbed with the existing mandatory limit placed by the regulator on the number of ISINs that can be issued in a year. It would thus enable the company to eschew the necessity of limit of maximum permissible ISINs.
Third, the issuer may like to take
advantage of the changing interest rate
regime, and buy back their earlier security and issue a new one. This helps in
treasury management. Fourth, depending on the market conditions, the issuer
may price it better as it gives the option
of early redemption to the investor. The
coupon rate offered could be slightly
lower with this option
being provided. Fifth,
for a lower rated company, such issuances
with a "put" option
would work better as
investors can redeem
before maturity
depending on the
prevalent conditions.
For all categories of
investors the "put"
option would work as it
is not necessary to
redeem but is an alternative individuals, in fact, already invest in some nonredeemable securities like the overn-Third, the iss

redeem but is an alternative. Individuals, in fact, already invest in some not redeemable securities like the government floating bond. A better return for the investor on the corporate bond with the "put" option would be a better alternative, especially if the rating is high. Therefore, Seb's move is very good and a big step in the direction of adding depth to the corporate bond market. It also opens the doors for retail investors to enter this segment. However, some awareness programmes should be carried out so that investors know how the bond market

works. Unlike a bank deposit which has a fixed principal and interest, a bond which is redeemed in advance will have a variable value depending on the market conditions. Hence while the coupon rate is fixed, the capital redeemed before maturity will not be so. This is an issue also with investing directly in government securities, which is possible through the tradification of the second of the properties of the second of the properties of the second of the se

cial institutions to repay such debt in case normal business operations do not generate the requisite funds. Developing the corporate bond mar-ket to include more retail players is a necessity. To do this, one has to mimic what happens in the conventional banking sector where deposits are offered with certain flexibility. The "put" option largely addresses a major concern for any household. Intuitively it can be seen that this idea will resonate well where the company is rated AAA or it can be seen that this idea will resonate well where the company is rated AAA or AA. The risk factor for a lower rated paper will always be overwhelming because a possible default will be a consideration. A way out would be to consideration. A way out would be to consider providing "bond insurance" much like deposit insurance where issuers would have to pay the insurer to provide cover of up to ₹5 lakh as is the case with bank deposits. This could be an issue bank deposits. This could be an issue which can be further deliberated.

## HSBC's east-west split isn't just about cutting costs

SBC HOLDINGS PLC successfully fought off a break-up campaign by disgruntled Asian investors in recent years. Now, it's announced a restructuring along almost the same East-West lines. The obvious question is why? It says it's designed to create a simpler, more efficient, and dynamic company — but it flooks a lot like the bank is also facing up to the political reality of the growing schism between the US and China.

A new structure won't dissolve HSBC's geopolitical challenges, but it could give the bank better options to respond quickly if things worsen.

HSBC spert 20.2 batting to convince shareholders of its strength as providing a financial bridge between hemispheres built on the twin pillars of its UK and hong Kong banking units. Its largest investor, Ping An Insurance Group Co., had backed calls to spin off its Asian business. Both sides stuck to financial arguments: he will be a shareholder of the stuck to spin off its UK and backed calls to spin off its Asian business. Both sides stuck to financial arguments: Still, the political subtext was always apparent.

The bank ultimately won a shareholder vote on the break-up question at its US and underly won a shareholder vote on the break-up question at its 2023 annual meeting. Since then, Georges Elhedery has taken over as chief executive officer from Noel Quinn with a mandate to further streamline the sprawling global lender. HSBC wont give details on the financial benefits of its restructuring until its full-year results in early 2025, although analysts are expecting cost cuts worth hundreds of millions of dollars.

Savings will come from collapsing layers of its matrix of geographical and product managers, the same playbook can freeling its UK and Hong Kong banks from wider global distractions so they better compete in their domestic retail and small company markets. But just as significant is the East-West split in its large commercial banking operations. Big company licents in Europe, the UK, and the Americas will come under the newly wereged corporate

cerned about the US's increasing exploitation of global reliance on the dollar to advance its political aims as the US is about China's ownership of or access to key computing and communication technologies.

The episode that most exposed HSBC was when the US used its direct internal supervision of the bank's activities — a legacy of HSBC's punishment for Mexican money laundering breaches in 2012 — to extract information about a Chinese client, telecoms firm Huawei Technologies Co. HSBC had no choice but to give up details that led to Huawei's Chief financial officer — the daughter of its founder — being arrested in Canada in 2018.

The fallout left HSBC scrambiling to placate governments and corporations in both east and west. The political standoff between the US and China hasn't improved since; if Donald Trump returns to the White House next January, things could get even more tricky for any business caught in between.

The story HSBC tells about it is restructuring is solely about financial efficiency and shareholder returns, rather than geopolitical defences. That's understandable: even talking about the latter risks causing problems more than providing answers. Ultimately, HSBC wants to remain a globoe-striding financier of trade and investments between and within hemispheres.

Moreover, creating a cordon sanitaire between eastern and western corporate information will remain hard even under the new structure. HSBC will need a single, central risk emanagement, and compliance function for its safety, although this recent also cleave HSBC in two should it become politically necessary some day. That won't ever be a costless option—but it's wise to be ready, just in case.

Gaming goldmine and a yaksha prashna To realise its potential as a gaming powerhouse, India



ANURAAG SAXENA

"SNATCHING DEFEATFROM the jaws of "SNATCHING DEFEATROM the Jaws of victory's to free quoted when describing India's policy position on many issues his-torically. Beyond military, geopolitical, and diplomatic (mis)alignments, this dage has also been applied to India's economic policies of the past — be it pledging our gold away, creating the Licence-Raj behemoth, demonising wealth creation, or overindexing on inefficient economic models.

In short, to paraphrase economies

creation, or overindexing on inefficient economic models. In short, to paraphrase economist Angus Maddison, India has been every efficient at letting go of value it has created. Sadby, this is a behavioural pattern that we repeat to this day. In dia is home to 40% of the world's gamers, but only 1% of the gaming revenues. Had this been any other sector, this sould have offended us, and committees would have been set up to stem this drain. This significant difference emphasises the untapped potential for economic growth and development within the country. However, india has also been flexing its muscle lately and has been extremely transparent about its economic ambitions. So, it is perhaps not too late for India to transform its gaming industry into a major economic powerhouse by addressing the key challenges and leveraging the burgeoning gaming community. The key driver behind India's massive gaming community is the country's young and tech-savey population. With the median age in India being 28 years, a large segment of the popula-

tion is inclined towards gaming, as the go-to choice of entertalment. Our grandfathers listened to the radio, our fathers went to the cinema, we browsed the internet, and the next generation is choosing games. The increased peneration of smartphones and affordable internet access has contributed to the industry's growth by making it more accessible. Despite these factors, India's gaming industry has been unable to translate this success into an economic prospect. tion is inclined towards gaming, as the

monetisation strategies is a primary reason for India's limited share of global gaming revenue. Indian gamers still prefer

Indian gamers still prefer free-to-play and in-app purchases while premium gaming options have not gained popularity. Further, the gaming industry in India has been slow to embrace advanced monetisation methods such as advertising, subscriptions, and virtual goods sales. To address this revenue shortfall, gaming companies must innovate and explore various monetisation strategies that resonate with the Indian audience. It could involve tailored content, competitive with the indian audience, it could involve tailored content, competitive pricing, and improving the gaming experience to encourage spending. The industry also requires substan-tial investments in infrastructure and

technology to compete globally. While there have been notable success stories, such as the rise of home-grown game developers and esports platforms, the industry still lacks the robust infrastructure available in more mature markets. Government support and private sector investments are crucial to building state-of-the-art gaming studios, research and development centres, and training facilities. Further, fostering a conducive environment for start-ups and providing access to

must adopt an approach that promises innovation, investments, and a friendly regulatory environment

revenue shortfall. gaming compani must innovate and

conducive environment for start-ups and providing access to unding and mentorship can spur innovation and dive growth in the sector. A clear and supportive arious station gies in the conduction for the sustainable growth of the gaming industry. The indian gaming the consumer protection through consumer protection through robust policies are an indiantify the indiantify overall development. Harmonising regulations at the antional level and ensuring consumer protection through robust policies will instit Ionfidence among investors and gamers alike. Further, addressing concerns related to data privacy, cybersecurity, and fair play will enhance the credibility of the Indian gaming industry.

To realise its potential as a global

gaming industry.

To realise its potential as a global

ming powerhouse, India must adopt gaming powerhouse, India must adopt a multi-pronged approach that fosters innovation, attracts investments, and creates a supportive regulatory environment. Collaboration between the government, industry stakeholders, and academia can drive research and development, creating high-quality games and cutting-edge technologies. Moreover, promoting competitive gaming can boost revenue and position india as buth for international camping currents. a hub for international gaming tourna-ments and events. This, in turn, will gen-erate second-order effects, employment opportunities, inbound tourism, invest-ments, and contribute to the country's economic growth.

economic growth. India's gaming industry today stands like Yudhishthir stood before a *yaksha* We need to answer some tough ques-tions, not emotionally but rationally. The tions, not emotionally but rationally. The country has a unique opportunity to a unit of this vast market and significantly increase its share of global gaming reneue. By addressing the challenges of monetisation, infrastructure, and regulation, India can unlock the full potential of its gaming industry and emerge as a formidable player on the global stage. The journey towards realising this vision will require concerted efforts from all stakeholders. However, the rewards—a thriving gaming ecosystem, economic prosperity, and global recognition—are worth the neadeavour. India, the untapped glant of the gaming world, is ready to rise.

### LETTERS TO THE EDITOR

### Proceed cautiously

Apropos of "Tangoing with the dragon" (FE, October 22), the Indian foreign secretary announced on Tuesday that China confirmed an agreement to resolve its four-year military standoff with India, besides agreein at the secretary standoff with India, besides agreein to resolve its our year. military standon with India, besides agreeing to restore troops to pre-2020 levels. The news came just ahead of the Brics summit in Russia where PM Modi and President Xi Jinping will be having a formal

interaction for the first time since April interaction for the first time since Apr 2020. Assuming that the patrolling agreement heralds a return to status quo ante, India shouldn't releto no Ite few past decisions like banning Chinese apps or not allowing Chinese firms to be a part of our development of 5G and 6G. Similarly, foreign direct investment by Chinese firms should be judged on a case-to case basis. India's relations with China can be repaired but at a slow pace and with effort from both sides. Meanwhile,

India must be cautious in its way forward with a nation like China. It can't suddenly be business as usual. —Sanjay Chopra, Mohali

### Polluted cities

Pollution crises are very common in Indian cities. According to research, air in about 60% of Indian cities is seven times more polluted than the acceptable limit. Developing nations like India, where urbanisation is ongoing, are suffering from increasing

New Delhi

air pollution due to a lack of air poliution due to a lack of services such as adequate transport management, suitable roads, and unplanned distribution of industries. Indian cities can learn from global best practices and adopt policies that combine conservation efforts with combine conservation efforts with economic incentives to foster an urban environment that secures a less polluted future for its citizens. —Satyawan Saurabh, Bhiwani

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## the hindu businessline.

## Sharp practices

RBI right in reining in usurious micro lending

pinions are divided on whether the Reserve Bank of India (RBI) was justified in its latest regulatory direction to four NBFCs (non-banking finance companies) asking them to 'cease and desist' from sanctioning and disbursing loans. Of the four NBFCs, two are microfinance players and two are investment and credit companies offering retail and MSME loans. RBI has cited their lending rates and spreads not being in line with its microfinance regulations and Fair Practices Code violations in support of its order.



In addition to their 'usurious' loan pricing, RBI has found the NBFCs not adhering to its income and asset classification norms, and not providing mandated disclosures to borrowers. While mandated disclosures to borrowers. While RBH has been criticised for being too harsh on the NBFCs, experience in the last couple of years suggests that it resorts to this extreme measure only when repeated warnings fail to yield results. Some new-age lenders do seem to take compliance rather lightly when it comes to chasing new segments of borrowers. RBI officials have warned lenders not to push the limits on

unsecured retail lending.

However, if the NBFCs concerned are to take remedial action it is important for RBI to clarify what it considers 'usurious' on the to clarify what it considers 'usurious' on the pricing of loans. Prior to March 2022, there was very little ambiguity on this because RBI regulations had a clearly defined cap on microfinance loans (officially defined as collateral-free loans to households with less than ₹3 lakh annual income). The cap was set at a 10-12 percentage point margin over the lender's cost of funds or 2.75 times the base rate of the top five commercial banks, whichever was lower. In March 2022 however, noting that most lenders were treating the rate cap as an informal benchmark, RBI did away with the cap and mandated that lenders not charge 'usurious' rates. However recent records of some rates. However, recent reports of some NBFCs extending loans at 40 per cent plus with additional penalties and fees, suggest that a section of the industry is flouting the spirit of this regulation. Nor has competition between lenders, as RBI hoped, helped lower borrowing costs for really needy borrowers. RBI should perhaps consider going back to explicit norms on lending rates for microfinance loans. Given that two of the NBFCs affected by its order are not microfinance lenders, RBI also needs to clarify if it is opposed to high rates only with respect to microfinance loans or frowns upon them for all borrowers. The latter may not be a tenable position. With savvier retail borrowers relying on loans for conspicuous consumption and risky activities such as derivatives trading, capping rates for all borrowers entails moral

hazard. Lenders also need freedom to price loans to reflect default risks. Finally, when putting out 'cease and desist' orders, RBI also needs to bear in mind that many NBFCs now raise retail money through the bond markets. Sudden business curbs on N'BFCs with retail bond exposure can undermine confidence in this still-nascent market.

### OTHER VOICES.

A Democratic government is the one we need
It is hard to imagine a worse candidate for the American presidency in
2024 than Donald J Trump. His history of dishonesty, hypocrisy and gree
makes him wholly untif to the office. A second Trump term would erode
the rule of law, diminish America's global standing and deepen racial and
cultural divides. Even if he loses, Mr Trump has hown that he will
undermine the election process, with allies spreading unfounded
conspiracy theories to delegitimise the results. There are prominent
Republicans – such as the former vice-president Dick Cheney – who
refused to support Mr Trump owing to the threat he poses. Gen Mark
Milley, the chairman of the joint chiefs of staff under Mr Trump, calls his
former boss a "fascist". America was founded in opposition to absolute
monarchy, usono, crosses is

### THE WALL STREET JOURNAL.

CM C

### What Real Russian Interference Looks Like

What Real Russian Interference Looks Like Vadam's Putin's medialing in the U.S. election work matter to the result. But the same can't be said for Russia's neighbors, as the Kremlin interferes in the Black Sea nations of Georgia and Moldow, on Snuthay Meldova held the first round of its presidential election, and voters also considered a referrendum to amend the constitution to define Europeau Tukion membership as a stational strategic objective. The referrendum passed 50.4% to 49.6%, Pro-Western incumbent president Nala Sandu led with 42.45% but failed to gain an outright majority. On W. 3 she'll face of flaganist an opponent supported by the pro-Russian Party of Socialists. The first round was marked by what the European Network of Election Monitoring Cingianzations called "massive malign foreign interference attempts" that included "large-scale vote-buying schemes." Newvook.orcese 22

## Why 'network issues' persist in Indian telecom

SPECTRUM PRICING. The reserve prices need to be reduced for Mobile Network Operators to buy unsold spectrum





he recent performance report published by the Telecom Regulatory Authority of India (TRAI) indicates that the contribution of 4G and 5G data usage in total volume of wireless data usage are about 79.17 and 20.26 per cent of these services. However, the quality of service of even plain old telephony on our mobile networks continues to be very poor. We continue to the expecially inside buildings and on highways. According to the recent Osla Speed Test report, India slipped to 26th position in the average mobile broadband speeds with 92 Mbps and 8 Mbps as the downlink and the uplink speeds respectively.

Mbps as the downlink and the uplink speeds respectively.

The TRAI initiated Quality of Service (QoS) regulation in 2000 and revisited the measurement and metrics in 2009 and 2012. However, despite these measures, the overall quality of experience often is not good enough for consumers. Realising the same, TRAI floated a consultation paper on developing new norms and metrics for mobile broadband service in 2023.

The moot question is what is the root cause for the poor network quality?

The signal quality is often very poor in rural and remote areas due to the cellular tower in which the Base Transceiver Station (BTS — also called as eNodeB in case of 4G networks) is often far from the mobile handset. The signal quality drops as the distance increases.

Further, depending on the spectrum that is used, the propagation of radio waves inside buildings can also be very poor leading to poor signal quality, which in turn affects voice and data transmission. The high frequency radio waves of the have poor propagation characteristic compared to low frequency spectrum (often referred to as sub GHz spectrum).

The Mobile Network Operators (MNOs) often use the two sides of the coin: spectrum and the BTSs to provide coverage and quality of service. If the spectrum held by the operator is less or that the MNO does not have adequate low frequency spectrum, then they should deploy more cell sites and BTSs to cover a specific area.

However, the cellular towers and the associated radio equipment are capital intensive. Most of the MNOs often lease intensive. Most of the MNOs of the lease inten

associated radio equipment are capital intensive. Most of the MNOs often lease this access infrastructure from tower

The availability of 600 and 700 MHz at appropriate price points will encourage the MNOs to acquire enough spectrum for

improving 5G penetration especially in rural areas

companies such as Indus Towers, which results in higher leasing and rental costs The MNOs do a trade-off between

The MNOs do a trade-off between acquiring spectrum in the appropriate band versus the deploying cell sites and BTS. This typically results in higher prices for the low frequency band such as 700 MHz and lower prices for high frequency band such as 3.3 GHz and 26 GHz bands. The average winning bid prices of 700 MHz, 3.3 GHz and 26 GHz in the 2023 pectrum auctions were \$0.32, \$0.054, \$0.0012 per MHz per capita. In Delhi, the reserve price for 700 MHz price was \$1.84 per MHz per capita, unch higher than in many countries.

capita, much higher than in many countries.

One of the main factors determining the winning bid prices in spectrum auctions is the reserve price or the starting bid price at the beginning of the auction. In India about 2 X 35 MHz per Licensed Service Area and hence a total of 1,540 MHz was put on block in the spectrum auction held in October 2016.

However, due to no bidding activity in this band, possibly due to high reserve prices at an average of \$1,16 per MHz per capita, the whole lot went unsold. The subsequent auctions held in 2021 also witnessed no activity in this band. Finally, in the auction held in July 2022, about 2 X 10 MHz per LSA was picked up by one of the MNOs across all LSAs at an average winning bid price of \$0.32 which is equivalent to the reserve price in most of the LSAs. is equivalen of the LSAs.

of the LSAs.

However, the metro areas of Delhi,
Mumbai and Kolkata witnessed a very
high price of \$1.84, \$1.54, and \$0.74,
respectively. In effect, a large amount of
spectrum in this band has been unused

for the last eight years! Further the 600 MHz band of which 1,320 MHz across the country was put into auction in 2022 remained unsold.

Hence, it is time to re-look at the reserve prices of these sub GHz bands in the future auctions. Research indicates that the number of cell sites required to provide equivalent geographic SG speed coverage with 700 MHz is about one-fourth with that using the mid-band spectrum such as 1800 MHz.

The availability of 600 and 700 MHz at appropriate price points will encourage the MNOs to acquire enough spectrum for improving SG penetration especially in rural areas. Even in urban areas, the low band spectrum can provide superior in-door coverage thereby augmenting the widely used mid band (3.3 GHz band).

It is time that we demart from the

the widely used mid band (3.3 GHz band). It is time that we depart from the formula of fixing reserve prices based on the winning bid prices in the previous auction. This method provides no room for decreasing the reserve price. We can use Simultaneous Multiple Round Ascending (SMRA) auction, invented by the Nobel Laureates Milgrom and Wilson, with enough guard rails that is proven to induce "truthful bidding". If we reduce the reserve prices to allow the methodology and the market to determine winning prices, we are sure to witness the MNOs picking up the yet unsold 600 and 700 MHz spectrum bands. Only then that we will be able to realise the true benefits of 5G and beyond networks.

## Long-term steps needed to control food inflation

From the supply side, farmers need remunerative prices through better post-harvest management and marketing support

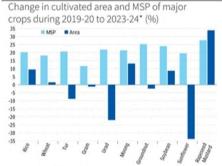
Tuisi Lingareddy

India's food inflation, after decelerating to a 13-month low of about 5.4 per cent in July and 5.6 per cent in August 2024, once again jumped up to 9.2 per cent in September 2024. The apparent slowdown in food inflation during July and August 2024 was largely on account of high base effect in almost all sub-groups of the Consumer Food Price Index (CPPI). The inflation of vegetables returned to higher trajectory of 35.9 per cent in September 2024 from 6.8 per cent art and 10.7 per cent registered in July and August 2024 respectively, as the high base effect diminished.

Persistence of high food inflation adversely affects vulnerable sections. On the supply side, farm output needs better policy support.

## REHIND HIGH FOOD INFLATION Inflation of cereals and products remained elevated in the range of 7 to 17

remained elevated in the range of 7 to 17 per cent for over two years, since August 2022. Purther, prices of pulses and products recorded a double digit increase ranging from about 10-21 per cent since June 2023. Tur (red gram), chana (Bengil gram) and urad (black gram) have led this increase. Similarly, prices of vegetables also registered a steep and persistent increase of more than 20 per cent during most months after July 2023. On the other hand, oils and fast witnessed a deflationary (negative inflation) trend since February 2023 supported by cheap imports with sharp reduction in import



Source: Agricultural Statistics at a Glance 2023

uty. However, the inflation of oils and

duty. However, the inflation of oils and fats turned positive with a 2.5 per cent increase in September 2024. Further, the increase in September 2024. Further, the increase in customs duty on imports of edible oils with effect from September 14, 2024 may drive the inflation of oils and fats up in the coming months.

To promote domestic production, minimum support prices (MSP) of major pulses and oilseeds were increased significantly by more than 20 per cent, barring chana, during the last five years (see graph). But, only mongo (green gram), rapeseed and mustard and soyabean witnessed expansion in their

cultivated area by about 13 per cent, 34 per cent and 9 per cent, respectively, while the rest of the major pulses and oilseeds posted a fall their area. Purther, MSP of major pulses and oilseeds for kharlf 2024-25 was increased by about 6-8 per cent but, the progress in their kharlf 2034-25 was increased by about 6-8 per cent but, the progress in their kharlf sowing till October 7, 2024-24 indicated a limited increase in selected crops. Therefore, the impact of MSP on acreage is somewhat uncertain, while yields have not really risen.

The per hectare yields of major pulses and oilseeds including tur, urad, moong, soyabean and sunflower have remained

low and stagnant for over four decades compared to the rise in yields of major cereals, groundnut, chana and cotton. The cultivation of these crops is largely confined to un-irrigated and marginal lands. This kharif, area under pulses expanded moderately by 7 per cent, while that under oilseeds increased only by 2.7 per cent over the same period last year. Among major pulsees, only tur and moong witnessed a significant increase, whereas urad registered an 8 per cent. Among major oilseeds, only groundnut registered an increase in area by 9 per cent, while soyabean posted marginal increase of 2.5 per cent till October 7.

The apparent reluctance of farmers to shift for cultivation of oilseeds and pulses could plausibly be on account of uncertainties due to lack of procurement at MSP. Prices of oilseeds, particularly soyabean and sunflower have been falling steadily over the past two years, as evident from their wholesale price trends.

There is limited scope to expand pulses imports given their limited global availability. Requisite measures are needed to enhance crop yields with climate change resilient technologies and practices, while promoting optimal use of scarce natural resources like soil and water. It is equally vital to ensure that farmers receive remunerative prices by strengthening post-harvest management, marketing infrastructure and logistics.

Amarender Reddy is Joint Director, ICAR-National Institute of Biotic Stress Management (ICAR-NiBS) Raipur. Tulsi is Senior Economist, Sustainable Finar and Agriculture, Mumbai. Views expressed are per

■ LETTERS TO EDITOR Send your letters by email to bleditor@thehindu.co.in or by post to "Letters to the Editor", The Hindu Business Line, Kasturi Buildings, 859-860, Anna Salai, Chennai 600002

frustration with an omnipotent dollar, in reality each BRICS nation has prime bilateral relations with the dollar, in reality each BRICS nation has prime bilateral relations with the U.S. And more importantly, each is entangled as much, in the resultant global politics. There is need for caution. Now that BBICS has a central bank it may tempt the Bloc to position itself are too soon as an alternative to the dollar driven trade and bring into the dollar driven trade and bring into the counties in the third bring into the counties the history domain. An early temptation to go in for a common trading currency would tilt the scale in favour of China whose opaque economy may not merit the tag of a stable tender for global transactions. BRICS would perhaps need to wait for couple of decades till gains greater economic status. R Narayanan

### Beware of China's games

agreements related to patrolling along the LAC has been cautious,

given the historical context and recent tensions between the two nations. However, the news that the two neighbours have reached an agreement on patrolling along the LAC in eastern Ladakh leading to disengagement, is encouraging, while agreements and dislogues between india and China regarding the LAC can help avoid immediate conflicts and create mechanisms for disengagement, trust is fragile and deeply contingent on China's actions deeply contingent on China's actions on the ground. India's past experiences, especially after the

Galwan Valley clash, have made it wary of fully trusting China's commitments. While being cautiou India cannot treat business as usual

**Gregory Fernandes** 

This is with reference to the artic 'Boost to Kashmiri apples' (Octo 22). The government cannot aff to ignore the hardships faced by apple farmers. The authorities should improve infrastructure

including the transport system and roads so that the Kashmiri apples can move swiftly from Kashmir to various parts of India. The farmers should be given whole-hearted support so that they can make various other food items from the apples like juices, jams, jellies and other sweets so that the farmers earn extra revenue. By levying heavy import duties on apples, the authorities can help the Kashmiri farmers to sell their apples at a comparatively cheaper rate.

uation the hitherto dormant netary part of BRICS operations. Ltd. No. 27 College Matter, TTC technoloid Aven, Vichou Navo

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Our banks must be

big, strong, global

EXPAND REACH. Indian banks now are larger in size than the World Bank and IMF. They should grow further and expand their footprint in the Global South

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## think · bl · 7

## In e-comm, trust is vital

Brands must meet evolving consumer expectations

### M Muneer

M Muneer

Iver since the pandemic, the view of online shopping has globally, including in India. As the first wave of festival sales online has ended, this preference for premium brands, larger packs as uring with intention to buy brands that are chosen but for better deals are all visible.

Looks like trust has emerged as the most valuable asset for brands aiming to capture the attention of cautious shoppers. With the online sales festivals, consumers are more careful about where they spend their money, seeking assurance of safety, reliability and values.

With the e-commerce sector

assurance of safety, reliability and values.

With the e-commerce sector expected to cross \$180 billion by 2025, brands need to adapt to the evolving expectations of consumers who are now more tech-savyy and information-hungry than before. The trust factor has become even more critical, as consumers actively research brands online before making purchases.

KPMG India reports that 65 per ent of Indian shoppers prefer to read reviews or search for product ratings before buying online.

Moreover, consumers in Tier 2/3 critical are more likely to rely on digital platforms and e-commerce digital platforms and e-commerce websites to evaluate a brand's

WINNING TRUST
How many brands can win trust
when it comes to online sales?
They must adopt comprehensive
plans that go beyond simple
advertising. Here are some
effective steps.
Emphasise authentic reviews.
A Local Circles survey found that
22 per cent of indians look for
authentic reviews and feedback
before making online.

A Docat Crees survey volude that & 2 per cent of Indians look for authentic reviews and beauting online purchases, especially during the festives esason when buying decisions peak. For brands, collecting and displaying reviews on third-party platforms such as Ametic reviews platforms such as Amount of Plipkart, or niche product reviews platforms have proven to be crucial. Ensuring these reviews are recent and credible builds a trustworthy online image. Engage actively with feedback: Brands engaging with both positive and negative feedback tend to have stronger consumer

positive and negative recursion tend to have stronger consumer nods. A 2022 EY report on noas. A 2022 E1 report on consumer behaviour suggests that 72 per cent of shoppers feel more connected to brands that promptly address their concerns, especially when dealing with delivery issues, returns, or exchanges. Effective responses

thehindubusinessline.

TWENTY YEARS AGO TODAY.

NTPC gets coal block for captive consumption After two years of negotiations, the National Thermal Power Corporation (NTPC) has finally been awarded a coal mining block for captive consump by the Coal Ministry, NTPC can now control the fuel cost for a new power plant, which constitutes around 50 per cent of the tariff.

World oil price at new highs

Subrata Roy enters elite club with Boeing
Mr Subrata Roy, Managing Worker and Chairman of the Sahara Group, has
joined the exclusive list of the rich and the famous who hop into their own
aircraft and fly around the world for business or pleasure. A leased Boeing
Business Jer, more populally referred to as BBA, which is to be used by Mr Roy,
landed at Delhi's Indira Gandhi International Airport late this evening.



positive experiences.
Enhance online service: A
Forrester study indicates that mer service ren poor customer service remains a sore issue with customers for cart abandonment — 47 per cent consumers cite it as a critical issue. Brands need to invest in customer service infrastructure — multilingual support, live chat, and quick query resolution. This can enhance their service quality perception.

Leverage SEO and Google seller ratings: Strong ratings and reviews, combined with robust search engine optimisation (SEO), will have a direct impact on consumer trust. Brands using structured data for SEO and integrate Google Seller Ratings.

on consumer trust. Brands using structured data for SEO and integrate Google Seller Ratings get higher visibility and more clicks.

Showcase reviews on product pages: Such displays will have a major impact on purchasing decisions. A Nielsen study points out that S8 per cent of consumers are more likely to buy a product if they see positive user-generated content on product pages. In recent years, issues such as sustainability, ethical sourcing, and CSR have gained traction. The Indian Retail Industry Report says that 54 per cent of urban shopers prefer brands that demonstrate a commitment to ethical practices, such as fair wages, coo-friendly packaging and community support.

A 2022 PsC report suggests that brands using sentiment analysis tools to assess customer feedback can make timely interventions to mitigate negative experiences. In addition, predictive analytics enables companies to foresee purchasing trends and adjust their marketing planas accordingly, thereby enhancing trust.

In the virtual marketplace

enhancing trust.

In the virtual marketplace
where trust is the ultimate luxury,
those brands that build it will
reign supreme.

The writer is a Fortune-500 advisor, start-up investor and co-founder of the non-profit Medici Institute for Innovation

inance Minister Nirmala Sitharaman recently emphasised that banks will play a pivotal role in making India a "developed" nation by 2047. The vision of a Vikisi Bharat, centred on economic growth social centred on economic growth, social progress, and good governance, places Indian banks at the heart of these

Banks' participation in India's economic growth must come from their own balance sheet growth. The more deposits banks accumulate and the more they lend, the greater their contribution to national growth. Due to the clean-up of both corporate and banks' balance sheets, and the institutionalisation of the IBC, which empowers lenders, Indian banks are now better positioned to fuel the country's growth trajectory.

the IBC, which empowers lenders, Indian banks are now better positioned to fuel the country's growth trajectory. With growth trajectory. With growth trates projected at ower 7 per cent, and potentially's per cent, India is on course to becoming the third-largest economy by 2027. However, catching up with China—the world's second-largest economy—with China—the world's second-largest economy—with China—the world's second-largest economy—with China—the world's second-largest economy—the India were to grow at twice the rate of China, it would take about 37 years for their economies to reach parity, given that China's economy is currently about four times the size of India's That said, India's recent growth rates offer hope. One of the underappreciated outcomes of India's growth is the significant expansion of its financial institutions, with a few surpassing international organisations like the World Bank and the IMF in size. This remarkable achievement has not garnered the public attention it deserves.

garnered the public attention it deserves.

Traditionally, the Bretton Wood twins, led by the West, were seen as financial giants to whom the Global South turned for assistance in times of crisis. India was no exception. In 1991, -14. b. 4.17 as secure an emergency cred India had to secure an emergency credit of \$2.2 billion from the IMF by pledging 67 tonnes of gold as collateral to tide over a forex crisis. This remains a

over a forex crisis. This remains a rankling memory. Fast forward to today, India's foreign exchange reserves are nearly \$700 billion, making it the fourth-largest reserve holder, just behind Switzerland with \$800 billion. Simultaneously, the balance sheets of Indian financial institutions have grown impressively. As of June last year, the World Bank's balance sheet stood at \$347 billion, while India's largest lender, the State Bank of India (SBI), boasted a balance sheet of \$807 billion. Even the second

context, the IMF's balance sheet was

context, the IMP's balance sheet was around \$560 billion. India's financial muscle has also enabled it to extend international assistance. Last year, India extended a \$1 billion loan to \$7i Lanka through \$81, while the IMP and other global lenders took two years merely to reschedule \$7i Lanka's existing loans. Notably, India's assistance came sans any conditions that would compromise \$7i Lanka's exciting loans. Notably, India's assistance came sans any conditions often come with stringent standard conditions born out of the "Washington Consensus". Recently, Kenya, a struggling African nation, received a Consensus', Recently, Renya, a struggling African nation, received a \$3.7 billion loan from the IMF, but with typical conditions of tax hikes and subsidy cuts, sparking widespread

unrest. As India prepares to become the

For India to be taken seriously on the global financial stage, at least three to four Indian banks must rank among the top 20 global banks within the

next 15 years

n by 2047, severa "developed" nation by 2047, several key questions arise: How should India position itself as a global power? How can its financial institutions support the can its infancial institutions support country's ascent to economic leadership? And can India create an independent financial support syste for smaller economies in the Global South, providing an alternative to th IMF/World Bank model?

NECESSARY CONDITIONS

There are at least three necessary conditions to be fulfilled for India to establish itself as a leading global onomic power. Expansion of Indian financial

Expansion of Indian financial institutions: First, Indian banks must grow in size and influence. Currently, the world's four largest banks by asset size are Chinese, far ahead of Western banks like JPMorgan Chase and HSBC. SBI and HDPG Bank do not figure in the top 30. For India to be taken seriously on the global financial stage, at least three to four Indian banks must grow their assets (mainly domestically) to rank among the top 20 global banks within the next 15 years. With the economy expected to grow at 7-8 per cent annually, credit growth, (including lending to infrastructure by the large banks) will need to accelerate by 15-16

per cent in nominal terms, driving corresponding balance sheet growth.

Supporting Global South economies: Second, India must increase its financial assistance to countries in the Global South, particularly in Africa. China has expanded its international influence through institutions like the China Development Bank and the China Development Corporation. Similarly, India will have to either through the government or a sovereign wealth fund, provide development assistance in the form of grants, soft loans, and technology transfers. Without such initiatives, India's rise may not bestow corresponding relevance.

Ensuring economic inclusivity: Last, India must ensure that the benefits of development are shared equitably. This means not only focusing on wealth creation but also job creation to raise incomes across all sectors of society. A truly Vikist Bharat can only be realised when "economic democracy" is achieved, lifting millions out of poverty and into the fold of national progress. With thoughtful strategies and bold moves, Indian banks and financial institutions can help the country achieve its vision of becoming "developed" by 2047.

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## Ethanol blending needs policy push

Thas been a spectacular growth story for the Indian sugar industry over the last decade. Let us go back in time to trace the process. In 2012, the industry was semi-decontrolled. The Rangarian Committee set up by the then government to look at the long-term sustainability of the sector made several key recommendations. One of the key reforms was dismantling the levy obligation for sourcing PDS sugar at a price below the market price.

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The Indian Sugar and Bio-energy Manufacturers Association (ISMA), formerly known as the Indian Sugar Mills Association, played a significant role in shaping public opinion. The positive effects of the reforms started reflecting soon. However, if faced yet another challenge.

Through the efforts of sugarcane farmers and the sugar mills, the country witnessed surplus sugar production from the 2010-11 sugar

season, with seasons 2017-18, 2018-19 and 2020-21 seeing bumper sugar production. The annual sugar production of the country outpaced the total annual sugar consumption requirement, leading to over-availability of sugar. Excess sugar supply led to reduced prices, straining revenues while costs related to sugarcane payments soared, causing financial constraints to the industry.

BIG CHALLENGE
The game-changing moment for industry arrived when the govern announced the ethanol blending

announced the ethanol blending programme. Although the programme faced initial hiccups due to pricing and infrastructural issues, measures announced by the government in 2018 fast-tracked the programme and gave a strong impetus to the indigenous production of ethanol biofuel.

The programme faces an important challenge of achieving 20 per cent



blending within the next two years.
Monsoon uncertainties and the
persistent debate about food vs fuel
have forced the government to take a
more conservative approach and
balance food security with ethanol
production.
This was evident last year when the
overall sugar production estimate for
the country had to be lowered due to
initial scanty monsoon rains over
Karnataka and Maharashtra. In

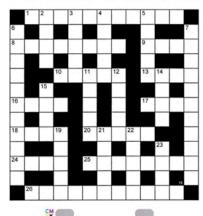
response, the government imposed curbs on the production of ethanol from sugarcane juice and B-heavy molasses, and imposed a complete ban

mousses, and imposed compete out on sugar exports. Going forward, it is crucial to ensure the steady availability of raw materials and feedstocks for the ethanol programme. The industry is working hard to increase cane acreage in the country so that the cane crop is assured.

country so that the cane crop is assured. With rising sugarcane prices and incremental cost of ethanol production, the sugar industry expects a higher procurement price for the ethanol to be supplied by the mills. This will provide the desired quantity of ethanol to be rogress towards the target of 20 per cent ethanol blending. A consistent ethanol pricing policy that compensates the ethanol production costs incurred by sugar mills is the need of the hour.

### BL TWO-WAY CROSSWORD 2554

World oil price at new highs. World oil prices vauled to record highs, stirring fears of \$60-a-barrel New York crude, as traders sweated over tight US energy stocks and rampant, China-driven demand. New York's main contract, light sweet crude for delivery in December, set a record \$55.0 a barrel and finished at a record settlement of \$55.17, up 70 cents on the day, on Friday.



### EASY

## Made an expressive sign (8) 9. Stronghold (4) 10. Contradiction, opposition (5) S. Firearm spirally grooved (5) 13. Boy's name; old Irish blood 6. Land cultivation (11) 7. Accumulating reserves (11) 16. Second-hand (4)

17. Let fall (4) 18. Be at an angle (4) 20. Was not awake (5)

24. Talk as though delirious (4) 25. Mockery (8) 26. Former newspaper centre (5.6)

### DOWN 2. Ultimate (4)

4. Parts of shoes (5)

11. Wrong, out of order (5)

12. Item of gym apparatus (5) 14. Thin, very uncommon (4) 15. Bring to the ground (4)

19. Subject for discussion (5) 21. Vegetable related to onion 22. Previous; friars' head (5) 23. Grape-derived drink (4)

### NOT SO EASY

1. Killed off as mirth in the Southeast started dwindling (11) 8. Made signs that urged set of variations (8)

9. Trading-post full of rather tasty starters (4)
10. Opposing wills colliding for a pound in ready money (5)
13. Little by little, a boy was fine in Ireland (4)

16. Took advantage of one as one was wont in the past (4)

17. Don't go on with a bit of liquid medication (4)
18. Be inclined to take part in the lists (4)

20. Was perhaps dreaming of first love among seven in

24. Enthusiastic review thrown out on leaving Verona (4)

25. One is rid of disruption caused by mockery (8) 26. Where journalists were quick to put setter straight (5,6) 23. Drink one will get in in opposite directions (4)

2. A model of the foot that should endure (4)

Normal part for Santa Claus, unless he's upset (5)
 Cads one kicks back out of the scrum (5)

5. Plunder an infantryman's best friend? (5)

True garlic grown with uranium as a rural pursuit (11)
 What's in store mounting up as one is amassing weapo

11. There's something wrong with a schoolteacher (female) (5)
12. This sense of heroin is common (5)
14. It isn't easy to find meat so underdone (4)

15. Lost one's balance or one's heart (4)

19. It is to be developed as article the writer is given (5)
21. Vegetables that look smooth and glossy head-to-tail (5)
22. There's a name for an ecclesiastic in a previous sense (5)

### SOLUTION: BL TWO-WAY CROSSWORD 2553

ACROSS 1. Portable 4. Afar 8. Rid 9. Piper 10. Rib 11. Swollen 12. Pleat 13. Pilot lights 17. Paths 18. Watcher 20. Run 21. Irons 22. Don 23. Seek 24. Adultery DOWN 1. Parish 2. Radio 3. Lupin 5. Ferment 6. Rebate 7. Propagates 9. Pillow-slip 14. Intense 15. Spares 16. Brandy 18. Wooed 19. Hedge :::