#### THE HINDU -Editorial



### Stop the slaughter

Trump must use his leverage to force Israel to end the war in Gaza

In this third White House visit in six months, Israeli Prime Minister Benjamin Netanyahu, on Monday, heaped praise on U.S. President Donald Trump for his "pursuit of peace and se-curity... in the Middle East" and even nominated curity... in the Middle East" and even nominated him for a Nobel Peace Prize but stopped short of making any commitment on the most pressing is-sue in West Asia today – a ceasefire in Gaza. While indirect talks between Hamas representa-tives and Israel continue in Doha, Israel appears to be readying the forcible relocation of Palesti nians to the south of Gaza. Defence Minister Is to be readying the iorbite relocation of vales intars to the south of Gazz. Defence Minister Is-rael Katz says he has instructed the Israeli De-fence Forces (IDF) to come up with a plan to relocate the entire population of Gaza, of 2.3 mil-lion people, to the ruins of Rafah, which the Is-raelis call a "new humanitarian city". There were reports in the Israeli media about the IDF Chief, Eyal Zamir, opposing the plan, saying that "the hungry and angry" Palestinians "could turn on the IDF". The IDF killing dozens of Palestinians, including children, in Gaza is a daily occurrence; Istarving civilians are shot down in aid centres. Doctors who served in Gaza in the past 20 months have horror stories of babies being starved to death or bodies of children being prought to hospitals with sniper wounds in their heads. None of this moves Mr. Netanyahu and his backers in the West, including Mr. Trump, who

oackers in the wesk, including wir, Frump, who calls himself<sup>1</sup> ar man of peace<sup>2</sup>. Mr, Trump had said before the meeting that he would be "very firm" with Mr, Netanyahu on the need for a ceasefire. But words alone are not enough. Mr. Trump has the leverage to compel Is-rael to accept a ceasefire in Gaza. He demonstrat-ed host a wolleho demonstrations abort 30 data humo rael war, publicly demanding that Tel Aviv turn back its fighter jets that had taken off to bomb back its fighter jets that had taken off to bomb Iran. Israel compiled, after carrying out only a symbolic strike. Today's Israel is dependent on the U.S. as ever before. During the war on Iran, Is-rael had to rely on America for offensive and de-fensive support. Israel needs American weapons to continue its devastating war in Gaza. And Mr. Netanyahu, who is facing an arrest warrant from the International Criminal Court for war crimes and arisms emine humanity and an angent the International Criminal Court for war crimes and crimes against humanity, needs American political and diplomatic backing to continue his wars across West Asia with impunity. If the U.S. continues to support Israel and refuses to use its leverage to end the Gaza war, it will be con-demned by future historians and fact-finders as a country that was complicit in Israel's crimes against Palestinians. There are no excuses for Is-rael to prolong this brutal war, which has killed an estimated 70,000 people in 20 months. The slaughter must stop, and Israel must be held ac-countable for its crimes.

**Quick fix** 

## What the 'neutral clean-up' of Bihar's poll rolls really is

n recent years, India has experienced a subtle, yet significant, shift in how citizenship and national belonging are defined, and, increasingly, how voting rights are determined. This transformation is most evident in the ongoing electoral roll revision by the Election Commission of India (ECI) in Bihar, just months before the State Assembly elections later this year. The hurried and opaque nature of this process risks the wrongful exclusion of lakhs of eligible voters, posing a serious threat not only to the integrity of the electoral system but also to the constitutional values of equality, fraternity and justice.

Anything but a routine update On the surface, the Special Intensive Revision (SIR) of electoral rolls in Bihar appears to be a routine update. But in practice, it is anything but. Nearly 4.74 crore voters – close to 60% of Bihar's electrone are accompanied. routine update. But in practice, it is anything but. Nearly 4.74 crore voters – close to 60% of 8lbar's electorate – are now required to prove their eligibility through a new set of documents. The threshold for inclusion has shifted dramatically. Under the SIR guidelines, any voter not listed in the 2003 rolls must now provide documentary proof of citizenship. This includes birth certificate, school-leaving documents, land deeds, or official citizenship papers, which are records that are difficult to produce even in urban centres, let alone in the rural stretches of Bihar. Crucially, many of these documents, particularly birth certificate, are the responsibility of the state to dso as tacale, placing the burden on individuals to obtain and provide them. What is being presented as a neutral "clean-up" of electoral rolls carries a serious risk of disenfranchising millions. The poor, Muslims and migrant workers, who make up a significant portion of Bihar's population, with migrants alone constituting around 20% are likely to be disproportionately affected. There is a significant risk that large numbers of migrant workers, and

disproportionately affected. There is a significant risk that large numbers of migrant workers, predominantly men, could be removed from electoral rolls.

This represents a sharp break from previous practices, where self-declaration was deemed sufficient for enrolment, a principle supported by electoral regulations and the Supreme Court of India. The shift suggests a deeper reconfiguratio of the relationship between the state and its

The ECI claims that the revision is aimed at The ECI claims that the revision is aimed at eliminating duplicate entries, removing deceased voters and filtering out ineligible electors, while also including newly eligible ones. Legally, the ECI is empowered to do this. But the scale, the timing and the method of the current exercise ar deeply problematic. It is neither practical to execute such a massive overhaul within a few weeks, nor reasonable to demand documentation that many voters, particularly from maginalised communities, simply do not possess. Media



Professor Eme entre for Politic tudies, Jawahan ehru University

reports suggest that many such voters do have widely held government-issued IDs such as Aadhaar, voter ID card, labour cards, and MGNREGA cards, none of which is being accepted as sufficient proof of eligibility. There is a Kafaaesque irony at the heart of this: the very voter ID cards issued by the ECI are now deemed inadequate. By refusing to recognise its own identification document, the ECI is not only disenfranchising citizens but

not only disenfranchising citizens but also eroding its institutional credibility. If its own ID cards are no longer considered trustworthy for verification, what does that imply about the integrity of the electoral process and the legitimacy of past elections?

#### An encroachment

An encroachment Electoral integrity is not just about removing duplicates; it is about ensuring that every citizen has an opportunity to vote. The ECI's mandate is to facilitate participation, not put up bureaucratic hurdles. By shifting into the terrain of citizenship verification, the ECI is encoaching upon a domain that lies with the judiciary and designated tribunals. There is an apprehension that Electoral Registration Officers (EROs) could be given the authority to refer individuals suspected of being foreign nationals to citizenship authorities – a task previously outside the ECI's remit.

remit. This shift, and the resistance to it, both have precedent. In the past, the judiciary has expressed concern over attempts to place the burden of proving citizenship on individuals, including those who had already participated in the electoral process. It has held that prior inclusion on an electoral roll implies that verification had already taken place. Again, in 2005, during the Assam poil recidion. the Court 2005, during the Assam roll revision, the Court stressed that anyone facing deletion from the rolls must be given notice and an opportunity to respond, and that questions of citizenship must

Interimes, is beginning to resemble a de facto National Register of Citizens (NRC) but without any legislative basis or judicial oversight. It imports the logic of citizenship audits into electoral administration, turning a democratic procedure into an exclusionary instrument. There is a deeper political logic behind the timing of this voter roll revision exercise. Its launch is particularly significant in the context of fiercely contested State elections, where every vote matters. The political motivations are hard to ignore: estimates suggest that as many as two crore voters could be removed from the rolls if the current process continues unchecked. In States such as Bihar, the deletion of even a few

hundred thousand names could decisively influence outcomes in tightly contested constituencies. Already facing strong constituencies. Already facing strong anti-incumbency sentiment and a growing challenge from the Indian National Developmental Inclusive Alliance (NDIA) bloc, the ruling National Democratic Alliance (NDA) stands to gain from

Autance (VDA) stands to gain from such revisions. With the outcome still uncertain, voter roll revisions take on clear political significance. Compounding matters is the logistical challenge. The ECI has launched this document-heavy exercise during the moment-heavy

BHAR BIAR When large parts of Bihar are flood prone. It has imposed a 30-day deadline – a window in which many migrant workers are still away from home. This confluence of administrative rigidity and ecological vulnerability has created a perfect storm for disenfranchisement. An institution entrusted with ensuring free and fair elections, risks becoming a gatekeeper to democratic participation.

B

REVISION BIMAD

The larger implications Critics rightly see the revision as a form of demographic manipulation – a subtler version of gerrymandering by exclusion. The implications go well beyond Bihar, carrying national significance

ignificance. This new process is part of a broader political This new process is part of a broader point project aimed at weakening pluralism, even as substantive political participation and contestation are systematically constrained. It aligns with majoritarian narratives that cast a doubt on the loyalty and belonging of certain communities manifolding the Muniters and confer communities, particularly Muslims, and seeks to diminish their political influence by undermining both their representation and their right to vote. What is unfolding in Bihar may well serve as a template for other States. ECI officials have

indicated plans for similar special revisions in Assam, Kerala, Puducherry, Tamil Nadu and West Bengal. If this model is replicated, it may institutionalise a more document-intensive approach to voter verification – one that risks undoing decades of progress in empowering historically marginalised communities by offerin them meaningful opportunities to participate in the democratic progress. ering

them meaningful opportunities to participate in the democratic process. The Bihar voter roll revision is now under challenge in the Supreme Court for violating fundamental rights including the right to vote, equality before law, non-discrimination, and dignity. If its not struck down, it could strip lakhs of citizens of their right to vote, distorting electoral outcomes and eroding faith in democratic institutions. What is at risk is not just participation, but the very credibility of free and fair elections, an inviolable part of the Constitution's basic structure. +

## The dark signs of restricted or selective franchise

e are now in the second week since the sudden launch of the e are now in the second week since special Intensive Revision (SIR) of electoral rolls in Bihar, on June 24, 2025. By now we all know that this SIR is happening after a gap of over 20 years. But this is only a half truth. The SIR now is fundamentally different from all the earlier SIRs. The ongoing SIR entails a complete reconstruction of the electoral rolls based on the submission of docum applicant electors. ents by aspiring and

#### **Revisiting trauma**

Revisiting trauma Its suddenness and utter lack of transparency have rekindled memories of the traumatic experience of demonetisation in 2016. It is no wonder that the people of Bihar have begun calling the SIR as 'votebandi' after the popular Hindi term 'notebandi' to denote demonetisation. But the SIR also has features of the ordeal the people of Assam experienced during the National Register of Citizens exercise. An estimated 50 million voters of Bihar ar being subject to a harsh 'eligibility test' in order to prove their citizenship and voting right. The NRC in Assam was, however, not a sudden campaign, and was under the watch of the Supreme Court of India. It took six years and two rounds to cover an applicant population of 33 million, and even now the Assam government, is s and utter lack of transparency

million, and even now the Assam government is not ready to accept the NRC that emerged, with close to two million rejections/exclusions. In Bihar, filled-in enumeration forms and accompanying enabling documents are to be collected from all, in just a month's time. And the month in question is July when the monsoon is vigorous, and when large parts of north Bihar are ely to be flooded and seasonal migration is at ak. While the sheer scale and circums of this sudden operation make it clear that it is going to be a logistical nightmare, what makes it an insurmountable hurdle race for large number of Bihar electors is the list of 11 enabling documents that the Election Commission (ECI) wants as proof of electoral eligibility abling mission of India

## LETTERS TO THE EDITOR the court of electors, particularly, the vulnerable and unlettered segments of society, to comply with the unreasonable riders of the Election Commission – and pertaining to the production of 'the prescribed documents'. Depriving a law-abiding citizen the

Bihar roll revision Going by the swiftness of Bihar roll revision Going by the swiftness of the exercise relating to the revision of electoral rolls in Bihar State, there is little doubt that a cloud of suspicion has permeated the process. There is no logic, reason or valid ground to lob the ball into



The hurried

and opaque revision is a

weakening pluralism

form of demographic manipulation and part of a broader political project aimed at

Bhattacharya is General Secretary of the Communist Party of India (Marxist-Leninist) Liberation

What is about to unfold in Bihar is a

fundamental disruption of India's electoral

millions of second grade

and insecure citizens

democracy, with

Documents commonly available with the people such as the Aadhaar card, voter card, ration card, job card or even the driving licence are not acceptable to the ECI. Instead, the documents it demands – birth certificate, matriculation degree, land or house ownership record, caste certificate, passport – are rarely available with the common man in available with the common man in Bihar. How on earth are they going to prove their eligibility or citizenship? What makes matters inordinately

prove their eligibility or citizenship? What makes matters inordinately more difficult is the high out-migration from Bihar. Almost every family has a member who is studying or working outside the State. During the COVID-19 pandemic, the lockdown in 2020 saw the shocking spectacle of migrant Biharis trekking back home over thousands of kilometres. Now many of these spectacle of migrant Biharis trekking back home over thousands of kilometres. Now many of these imgrant Biharis are liable to be removed from the revised rolls on the spurious grounds that they no longer ordinarily reside in Bihar. The cruel reality that forces millions to seek a livelihood outside Bihar now renders them 'outsiders' for purposes of the electoral roll. Even as the slums built by migrant Bihari workers are being buildozed in Delhi, the electoral rolls being prepared in Bihar threaten to evict them in their own State. The spectre of mass disenfranchisement is now an undeniable reality. The ECI exceptive mass are a destored real in elity. SPECIAL INTENSIVE REVISION, BIHAP

own State. The spectre of mass disenfranchisement is now an undeniable reality. The ECI recently gave us an electoral roll in Maharashtra exceeding the adult population of the State. Unable to explain this statistical scam, has the ECI now chosen Bihar for a 'balancing act' where millions are liable to be removed from the electoral roll for no fault of theirs?

A fundamental disruption According to the ECI's declaration, the Bihar SIR template will be replicated across the country in template will be replicated across the country in the months ahead. What we are witnessing is a fundamental disruption of the electoral democracy that has been practised in India since the adoption of the Constitution and enactment of the Representation of the People Act 1951.

fundamental right to vote for a candidate of his/her choice in any constitutionally mandated election on filmsy grounds is undemocratic, illegal and irrational. Now that the Supreme Court has taken, cognisance of the matter, it is hoped that the judicial

 order will adequately address the concerns of citizens of the country and also reflect democratic ethos and constitutional prioriples principles. V. Johan Dhanak

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democracy. The onus of proving citizenship is being shifted from the state to the citizen. The empowered elector has become a doubtful voter due doubt and the onus to clear this doubt and pass the eligibility test lies on the suspect and document-deficient voter. This is akin to a reversal of the 8 fundamental principle of natural justice that one is innocent till prov guilty. This is a huge disaster in the making.

Amid the chaos that has been triggered by the

votebandi' drive in Bihar, are at least three warning signals for India's beleaguered

democracy.

A disenfranchised category A disenfranchised category The ECI tells us that being a citizen is a constitutional prerequisite for becoming an eligible elector, and all that the SIR is doing is a verification of that eligibility. Electors on the 2003 roll are being presumed to be India's citizens, and, hence, rightfully eligible voters; all the others will have to prove it. Even if we accept that those eliminated from the electoral roll will still be considered 'citizens', we are now looking at a permanent category of disenfranchised citizens. In other words, India will have millions of second grade and absolutely insecure citizens who will, henceforth, be at the mercy of the state who will, henceforth, be at the mercy of the state or the majority of empowered first-grade citizens. The implications are alarming and clear. Universal adult franchise has been the cornerstone of India's Constitution and electoral

framework. In many countries, vast sections of 'excluded' and 'disempowered' people, on grounds of race, ethnicity, class and gender, had to fight for decades in order to secure equal electoral rights.

In India we won it at one go with the attainment of freedom and the adoption of the Constitution. Now, in Bihar, with the insistence on submitting educational certificates and ownership records, are we now looking at a new order of restricted or selective franchise?

> biased. All the parties concerned, including the Opposition, should be taken into confidence in this exercise. V.S. Kannan, Chennai Letters emailed to

The exercise is a step in the



right direction. But the same revision should be extended all over India and not be limited to the Opposition-ruled States. If the Special Intensive Revision has a genuine goal of the elimination of 'long term migrant/outsiders', then it should not be

letters@thehindu.co.in must carry the postal address. AINX

TRL-1 represents a basic level of research and TRL-9 a state of advanced readiness. TRL-4 ap-pears to be an arbitrary decision to support any promising research that has progressed halfway. Were there such a magic sauce, venture capital industries, premised on the fickleness of predic-ting the 'next big thing', would not exist. The scheme also seems to forget that technologically advanced countries have become what they are because of their military industrial complexes – where the spectre of war incentivises the deve-lopment of technology that is risky and expensive but, over time, may prove to be of immense eivi-lan value – examples are the Internet or the Glo-bal Positioning System. India continues to hae-morrhage scientists to the West due to the lack of opportunities commensurate with their training. Finally, it lacks a deeply skilled manufacturing sector that can make the products that scientists concive of. Budgetary allowances cannot over-night that which requires major surgery.

search. The scheme will primarily consist of a special purpose fund established within the Anu-sandhan National Research Foundation (ANRF), which will act as the custodian of funds. The funds will be in the form of low-interest loans. The ANRF is conceived as an independent institu-tional body, with oversight by the Science Minis-try, to allocate funds for basic research and to in-centivise private sector participation in core research. The involvement of the ANRF here is a novel move as the newly created organisation is meant to be the equivalent of a single-window clearance mechanism for funding research and development for universities and academic insti-tutions. It is also expected to get about 70% of fits budget from private sources. In sum, through the RDI and the ANRF, the government is looking to stake the bold claim that it has played its part and that it is now up to the private sector to come for-vernment today accounts for about 70% of India's R&D spend. However, already incipient in the go-vernment's tall ambitions are traces of what has vernment's tall ambitions are traces of what has caused previous such schemes to falter. The first of these is conservatism.

of these is conservatism. It turns out that a condition for availing funds is that only products that have reached a certain level of development and market potential or, what are called Technology Readiness Level-4 (TRL-4) projects, would be eligible. There are the market of the second second second second second the market of the second second second second second the second se nine TRL levels, a hierarchy that was first con ceived by the United States' National Aeronautic and Space Administration (NASA) in the 1970s TRL-1 represents a basic level of research and TRL-9 a state of advanced readiness. TRL-4 ap-



be resolved by the appropriate authority

The current process in Bihar, with its heavy documentation demands and compressed timelines, is beginning to resemble a de facto National Register of Citizens (NRC) but without

## The ECI does not have unfettered powers

he Election Commission of India (ECI) ordered a special intensive electoral rolls in Bihar, which will be facing Assembly elections in November. Political parties in the Opposition have alleged that the SIR is aimed at disenfranchising thousands of voters in Bihar by disqualifying them on the ground that they are not citizens of India. The ECI has denied this allegation and justified the revision. In the meantime, many petitions have been filed in the SUPreme Court challenging the ECI's order. While the controversy centres on the the controversy centres on the motive behind this exercise being conducted just a couple of months before elections, especially when electoral rolls were revised in 2024, this article focuses on the legality of this exercise and the powers of the ECI to undertake it.

Reasons for disqualification Article 326 of the Constitution declares that elections to the Lok Sabha and the Assemblies shall be held on the basis of adult suffrage This means every adult person is entitled to be a voter provided they are not disqualified on certain specified grounds. There are two essential qualifications of being an elector under this Article the person should be citizen of India and should be aged not less than 18. The Representation of the People Act (RPA), 1950, lays down disqualifications for registration as an elector. These are namely unsoundness of mind as declared by a competent court, and discussificant equalification from voting as

provided in Section 11A of the 1951 RPA. Conditions for registration as voter are laid down in Section 19 of the RPA: the person should not ss than 18 years of age and they should be ordinarily resident in a constituency. The term 'ordinarily resident' is explained in Section 20, which says a person shall not be deemed to be shall not be deemed to be ordinarily resident merely because they own or possess a dwelling house in that constituency. Also, a person does not cease to be ordinarily resident if they absent

Lok Sabha

The Special

Intensive Revision in

Bihar does not

conform with the provisions

Representation of the People

of the

Act

P.D.T. Achary Former Secretary General of the



ECI needs to be vested with all the necessary powers to complete its task.

complete its task. Nevertheless, it is inconceivable that the Constitution should confer on any authority unfettered

powers. The Supreme Court has made it clear that the ECI can

any statute but shall act in

exercise all powers in its discretion in areas which are not covered by

accordance with the law wherever it exists. In Mohinder Singh Gill v.

Chief Election Commissioner (1978), the Court stated the law as follows:

"Firstly when Parliament or any

State Legislature has made valid

law relating to or in connection

with elections, the Commission

shall act in conformity with, not in

violation of, such provisions but

where such law is silent, Article

324 is a reservoir of power to act

se of pushing

for the avowed purpose of push forward a free and fair election

is look at the relevant isions of the the RPA to get a

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n; (3) on the direction of

perspective on the powers of the ECI in regard to revision of the electoral rolls. Section 21 of the

preparation and revision of electoral rolls. It speaks of four

elections to the Lok Sabha or

Assertion; (3) on the direct by-election; (3) on the direct the ECI in any year; and (4) a

Assembly: (2) before each

with expedition.

Let us look at t

stages of revisio

The qualifying date

1950 RPA deals with the

special revision for a constituency or part of a constituency with the ECI recording reasons for doing so. All revisions except (4) are done with reference to a qualifying date, which, under Section 14, is the first day of Banuary. The only exception is (4): January. The only exception is (4): no qualifying date is mentioned because it can be done any time. The ECI order of June 24 mentions the qualifying dates as

qualifying date as 01/07/2025 and is a direction under Secti 21(2)(b) of the RPA. It can be assumed that the revision being done in Bihar is under the same Section. But

under this provision, the qualifying date should be 01/01/2025. The revision then should have been done from January 1, 2025. The qualifying date mentioned in the ECI order has no sanction under the law. Similarly, the term 'special intensive revision' is not found in the law. The only case where a special revision can be ordered by the ECI at any time is in relation to stituency or a part of it and not in relation to an entire State.

Thus, it is reasonable to conclude that the SIR in Bihar is not in conformity with the provisions of the RPA. The ECI has claimed in its order that it has power under Section 21 to undertake the exercise. True, but that power is limited to a constituency or part of it under Section 21(3) of the Act.

While enjoying enormous wers under Article 324, the ECI is responsible to the rule of law and should be amenable to the norms of natural justice as per the Supreme Court. Electoral stration officers cannot summarily reject application the ground that foolproof is on ments are not being furnished to prove citizensh Rule 8 of the Registration of hip Electors Rules clearly state that information shall be furnished ed "to the best of ability" of the citiz The ECI cannot ignore this statutory stipulation.

### Grand ambitions, troubling questions

The Polavaram Banakacherla Link Project carries several risks

### STATE OF PLAY

G.V.R. Subba Rao

he Andhra Pradesh go-vernment's ₹81,900 crore Polavaram Bana-la Link Project, which aims to transfer surplus water from the Godavari river to Ba-nakacherla in the drought prone Rayalaseema region, is in limbo. This is a contentious project as Telangana argues that it violates the provisions of the Andhra Pradesh State

Reorganisation Act, 2014. Last week, the expert ap-praisal committee denied clearance for the terms of reference required to conduct the environmental impact assess and environmental gement plan for the proment ject. The committee argued that the Godavari Water Disputes Tribunal award must first be examined and that the Central Water Commission (CWC) should be consulted before any environmental ap-provals are granted. The government has not yet commented on this decision. A political dialogue between the Chief Ministers of A.P. and Telangana may be necessary

to move the project forward. While the bold project ems to be a solution to Raya laseema's acute water scarci ty, a troubling question lies be ty, a routing question nes be-hind the grand ambition. Is the State mortgaging its future for a project that may never be economically viable or ecolog-ically sound?

ically sound? On paper, the project is an engineering marvel. However, its scale demands scrutiny, particularly when weighed against its energy costs, envi-ronmental footprint, and legal uncertainties. The project will require an estimated 3,377 MU of nower. This is a store. MW of power. This is a stag-gering demand for a fiscally



stressed State. Officials point out that the scheme will even-tually generate around 430 MW; this is barely a fraction of what is needed to run it. The environment footprint

The environment footprint the project is alarming. The 19.5-kilometre-long main tun-nel will cut through the eco-logically sensitive Nallamala forest and tiger reserve. A to-tal of 17,739 acres of forest land is proposed for use. It is also unclear why the State is opting for an energy-intensity exolution when struct

intensive solution when gravi ty-fed alternatives exist. The The Krishna river, particularly the Srisailam reservoir, offers a natural gradient that could irrigate Rayalaseema with sig-nificantly less financial and environmental cost. Gravitybased projects such as Galeru-Nagari, conceived decades Nagari ago for this very purpose, re-main unfinished.

The project is being prosed under the hybrid annui-model, which combines Central grants, State equity, loans, and private investment. A special-purpose vehicle, Ja-laharathi Corporation, has been set up to execute it. The funding model envisions ₹40,950 crore in loans, ₹16,380 crore in Central grants, ₹8,190 crore in State equity, and ₹16,380 crore quity, and ₹16,380 cro hrough private investment.

Unusually, the responsibili-ty for obtaining critical clea-rances from various ministries and from the CWC is being placed on contractors Even if the finances and ower needs are somehow

managed, the project hinges on the assumption that excess floodwaters from the Godava-ri are flowing wastefully into the sea. But this is unverified. And as noted earlier, the com-mittee has already denied per-mission for the terms of refe-rence. Without clearance from the CWC, Central fund-ing is uncertain.

The term of term o termining that water availabi-ity projections were exagger-ated. The A.P. government's proposal may face similar re-sistance, especially in the ab-sence of a formal agreement on sharing surplus Godavari

flows. Telangana has already raised objections under the A.P. Reorganisation Act, 2014, which mandates that all new projects on the Krishna and Godavari rivers receive clearances from river manage ment boards. A.P., however, argues that this is an intra-State project using floodwater headed for the sea. It is a legal grey zone that could lead to ears of litigation.

In recent years, A.P. has of-ten found its interests sidelined. The Centre supported Karnataka's Upper Bhadra project just before elections. In Telangana, it adjusted the In Telangana, it adjusted the terms of reference on Krishna water allocation just before elections. As the TDP is back in the NDA fold, speculation is rife that the Godavari-Banakacherla project could become a political bargaining chip. Rayalaseema's long-term wa-ter security should not be reduced to Delhi's short-term arithmetic. At the same time, development in Rayalaseema must happen through projects that are sustainable, legally sible, and based on hydr defe ological rea

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## How fast is India's fastest man?

Since 1968, 1,027 athletes from around 90 countries have run the 100 m faster than Animesh Kujur

### DATA POINT

#### nesh Radhakrishnan

ast Saturday, Animesh Ku-jur became India's fastest man by breaking the na-tional record in the meris 100 metres. He clocked 10.18 seconds in Greece, becoming the first In-dian to run the 100 m event under 10.2 seconds.

Chart of the second sec

Since 1968, 1,027 athletes from around 90 countries have run the 100m faster than Kujur (Chart 2), Kujur's effort is still a significant 0.6 seconds slower than Usain Bolt's world record of 9.88 succounds, conds, set in 2009, which remains unbeaten (Chart 3). Bolt also holds the record for the second-fastest 100 m (9.63 seconds). Chart 4 shows the progression of the 100 m world and Indian re-cords over time. Kujur's national

cords over time. Kujur's national record is 0.02 seconds faster than the legendary sprinter Jesse Owens' best of 10.2 seconds, set in 1936. The current Indian national record is comparable to world re-cords set in the 1930s to 1950s.

On Saturday, Kujur broke Singh's record of 10.20 seconds, set earlier this year. Singh had surset earnier this year. Singh had sur-passed Hoblidhar's 2023 mark of 10.23 seconds, who in turn had broken Amiya Mallick's 10.26 se-conds from 2016. Mallick had bet-tered Abdul Najeeb Qureshi's 0.20 seconds and solve 2010 mkich 10.30 seconds, set in 2010, which had equalled Anil Kumar's record from 2005. In essence, over the past 20 years, Indian sprinters have improved their 100 m time by 0.12 seconds

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## Need for **speed**



### The Man Hindu. FIFTY YEARS AGO JULY 9, 1975

#### WHO panels clears 'genetic engineering

FROM THE ARCHIVES

Geneva, July 7: The dangers of genetic engineering, altering the structural foundation of life, can be controlled, an international panel of top scientists has told the World Health ization. The panel, meeting here privately at the end of last month, has made recommendations for action which, a WHO official said, would "give the amber light" to research on artificial recombination of genes. This is a field which has caused disquiet among many scientists because of the prospect of "engineering" human beings by changing g "The field has tremendous implications in ging genes cancer research, for example," a WHO spokesman said yesterday. "But last year it was discovered that it could have unexpected and fatal results." The details of the recommendations by the WHO's Advisory Committee on medical research are being kept secret until July 24. The committee heard a report from Dr. E.S. Anderson, of the London ntral Public Health Laboratory on his work, WHO spokesman said. A WHO statement last Central robust research Laboratory on his work, the WHO spokesman said. A WHO statement last week said only that the committee "discussed at some length the safety problems involved in the experimental handling of pathogenic organisms." It added, "Special attention was given to the developments which are likely to stem from the new techniques which have recently become available." The statement added: "This powerful methodology arounds to performing artificial recombination between genes of different organisms. It was recognised by the committee that extremely important advances in medical science could be expected from the application of these techniques to the solution of a wide variety of problems in the prevention and therapy of human and animal diseases." the WHO spok

A HUNDRED YEARS AGO JULY 9, 1925

#### **Russo-Polish relation**

Warsaw, July 8: Farther incidents on the Polish-Russian Frontier are reported. 20 Russian soldiers who crossed the frontier were fired on by the Polish Frontier Guards, who drove back the Russians, of whom one was mortally nded

The Political Police have recently arrested 200 viet emissaries on the Eastern border.

# Text&Context

### THEMOMHINDU

#### **NEWS IN NUMBERS**

10

Number of lives lost in Gaza by Israeli strikes on Tuesday



Number of Indian students who got the Erasmus+ scholarship

The Erasmus+ programme, started in 1987, is part of the EU academic exchange initiative, and pays for tuition, and living costs. India is the leading global recipient, a testament to robust EU-India relations. Students will pursue various fields of study in more than 19 EU nations. PT

#### People missing after the Nepal-China border bridge collapse

At least 18 people, including six Chinese nationals, have gone missing, after the Nepal-China border bridge was washed away in Nepal. The Bhotekoshi River in Nepal had flooded after continuous monsoon rainfall in China. Eleven people, including two police el, were rescued.

People who embarked on a three-day peace march in Bosnia

7,000 Thousands embarked on peace march through Bosnia in memory of the victims of the 1995 Srebrenica massacre, Europe's only acknowledged genocide since World War II. The march insisted of Bosniak ethnic groups. #

Worth of assets restored by ED to Karnataka Waqf Board



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## What will be effect of rising military spending?

Why have NATO nations decided to increase their defence expenditure? During which period was global military spending the most? Will increased remilitarisation have an effect on domestic health spending? Why has the United Nations decided to cut down on its budget?

#### EXPLAINER

#### Nissim Mannathukkaren

The story so far: he North Atlantic Treaty Organization (NATO) summit in June pledged to increase June pledged to increase member nations' GDP (specifically "core defence requirements as well as defence and security-related spending by 2035"). The previous spending target was 2%. Such a move is symptomatic of the sharp increase in global military spending in the bet forecome. last few years

Last lew years. What has been the historical trajectory of military expenditures? According to the Stockholm International Peace Research Institute (SIPRI), which produces the most comprehensive database on military spending, global military spending was \$2,78 billion in 2024. The year saw a 9.4% increase, which was the highest year-on-year increase since 1988, with the Russia-Ukraine war and the Israel-Gaza conflict contributing to it, in 2025, the world saw two big additional conflicts, between India and Pakistan, and Israel and Iran. This, combined with the NATO pledge, will see further increases in global military spending in the coming years. Historically, the Cold Warp period saw the highest amounts of global military

the highest amounts of global military spending. It was 6.1% of the world's GDP in 1960. In the last year of the Cold War, it was at 3%. It reached its lowest levels in 1998 at 2.1% (a total expenditure of around \$1,100 billion). In 2024, it reached 2.5% (from 2.3% in 2015).

#### Who are the biggest military spenders?

spenders? The United States is the biggest military spender in the world with \$997 billion, followed by China a \$344 billion, Russia at \$449 billion, Germany at \$88.5 billion and India at \$86.1 billion – these nations are the top five military spenders. Almost 80% of the total worldwide military spenders. All of the NATO members (32) combined spent hy the top 15 military spenders. All of the NATO members (32) combined spent \$1,506 billion, which makes it around 55% of global military spending in a few countries. In terms of GDP percentage, among the top 20 spenders (excluding countries at war such as Russia, Ukraine and Israel), the highest spenders include Studi Arabia (7.3%), Poland (4.2%) and the U.S. (3.4%). The rest fall in the range of 2.6% to 1.3%. The United States is the biggest military

### What about the expenditure on other

public goods? The present wave of remilitarisation The present we of refinitiation of the pains made from declining military expenditures after the end of the Cold War. According to the Global Peace Index, in 2023, militarisation increased in 108

countries and the year saw the highest number of conflicts since World War II. Of countries and the year saw the highest number of conflicts since World War II. O course, military spending, driven by the military-industrial complex, can benefit certain sectors of the economy. Yet, as studies show (for example, by Masako Ikegami and Zijian Wang, based on 116 countries), there is a significant crowding out effect that increased military spending has on domestic government health spending, the effects of which are borne more by middle- and low-income countries. Batt even high-income countries are not immune. Spain, which spends only L24% of GDP on defence, asserted its sovereignty and opted out of the new NATO target citing 



strike amid Russia's attack on Ukn work at the site in Kharkiv, Ukraine on July 7.

sonable" and that the that it is "unreextra burden of 300 billion euros will cut welfare spending. It should be noted that nine NATO members failed to meet even the 2% target by 2024 despite it being proposed first in 2002.

#### What about the UN?

What about the UN? The present military spending of \$2.7 trillion and its scale can be understood only by placing it in the context of other critical global expenditures. The latest budget of the United Nations is only \$44 billion – with which it should fund development, humanitarian aid, and peacekeeping operations. But the UN, in six months, has only received \$6 billion, and as a result, is seeking to reduce the budget to \$29 billion. In the 12-day budget to \$29 billion. In the 12-day Israel-Iran war, the U.S. is estimated to have spent nearly \$1 billion on missile

terceptors alone. The U.S., under President Donald The U.S., under President Donald Trump, seeking to cut foreign aid is the major cause of the UN funding crisis. While Mr. Trump wants to be known as a peace-making President, he has pushed NATO to adopt the 5% military spending target and has closed down the U.S. target and has closed down the U.S. Agency for International Development (USAID), which provided annual assistance to the tune of \$50-60 billion worldwide in the few years until the Russian-Ukraine war. A *Lancet* study found that USAID assistance in healthcare, nutrition, etc., prevented 91 million deaths in low- and middle-income countries in the past two decades, and that Mr. Trump's decision could potentially cause a staggering 14 million

of the Russian drone strike, amid Russia's attack on U additional deaths by 2030, a third of them being children. It demonstrates that peace is not just the absence of war, but also the material conditions for the healthy sustenance of life. Additionally, increased defence spending is upending the progress of achieving the UN Sustainable Development Goals (SDGs). It is estimated that ending extreme poverty and absolute monetary poverty globally by 2030 would need \$70 billion and \$225 billion respectively per year. It constitutes only 0.1% and 0.6% of the gross national income of high-income countries. The UN estimates that in 2021, around 4.5 billion people did not have full coverage of essential health services, and, that even spending just \$1 per person yearly on the spending just \$1 per person yearly on preventing non-communicable disease could save nearly seven million lives by 2030.

Increased military spending has – combating climate y spectral ginas
 – combating climate change.
 According to a study by the Conflict

According to a study by the Conflict and Environment Observatory, if NATO's defence spending reached 3.5% of GDP, greenhouse gas emissions would increase 200 million tonnes annually. When the world is seeing unprecedented heatwaves, and with 2024 being the hottest year on record, increased military spending will only divert scarce resources from climate mitigation, and other pressing public goods.

How is India affected by increased military spending? Close to home, after Operation Sindoor,

 ₹50.000 crore was additionally

850,000 crore was additionally sanctioned (to supplement the annual budget of 8.63 lkah crore) for emergency defence purchases to replenish used weaponry. To put it in perspective, funds allocated by the centre for Ayushman Bharat health insurance which covers 58 crore people was 87,200 crore for 2023-24. India spends 2.3% of GDP on the military whereas the public expenditure on health, despite increasing in recent years, is very low. It is 1.84% of the GDP, less than the 2.5% target of the National Health Policy, and much less than the 10% mark of most developed countries. In the light of heightened tensions and public sentiment being in favour of militarisation, spending on other public militarisation, spending on other public goods might suffer. Military conflicts and spending can be ruinous for middle- and low-income countries. Lebanon spent 29% of its GDP, and Ukraine 34%, on

military spending last year. NATO Secretary General Mark Rutte stated that "We must spend more, to prevent war." The present proposed increase is, according to NATO, mainly to counter Russia. Scholars note of the huge counter Russia. Scholars note of the huge disparity between Russia and NATO: Russia's economy is 25 times smaller and military spending, 10 times lesser. This shows how fear mongering can be used by leadership to militarise society further. If the NATO pledge does indeed become a reality, the consequences for human well-being will be enormous. Nissim Mannathukkaren is a professor with Dalhousie University, Canada, and he is on X @nmannathukkaren.

### THE GIST

According to the Stockholm International Peace Research Institute (SIPRI), which produces the most comprehensive database on military spending, global military spending was \$2,718 billion in 2024

The latest budget of the United Nations is only \$44 billion— with which it should fund development, humanitarian development, numanitarian aid, and peacekeeping operations. But the UN, in six months, has only received \$6 billion, and as a result, is seeking to reduce the budget to \$29 billion.

The U.S., under President Donald Trump, seeking to cut foreign aid is the major cause of the UN funding crisis.

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### - THE HINDU -**Text** Context

#### САСНЕ



## **Fostering innovation from business** models to DeepTech

Without a culture of experimentation and long-term thinking, no amount of funding can build DeepTech. For R&D culture to flourish, founders need to dirty their hands in technicality. Great DeepTech companies are built by founders with hands-on technical expertise

#### dra Bhate

ew months back, the Minister ew months back, the Minister for Commerce and Industry Pyush Goyal sparked a debate by drawing comparisons between Indian startups and their Chinese counterparts. While his comments stirred some discontent within the startup ecosystem, they also raised a crucial point – India must now shift its gaze from surface-level innovation to beepTech.

#### The journey so far

If we look at our startup ecosystem journey so far, it has flourished largely on the back of business model innovation. From food delivery apps and e-commerce to fintech and gig economy platforms, startups have created new value by reimagining how services are delivered. While this has driven revenue and While this has driven revenue and encouraged entrepreneurship, it's time to aim higher. As Mr. Goyal emphasised, the next frontier is DeepTech – technology grounded in scientific discovery, engineering excellence, and fundamental research

engineering excellence, and fundamental research. But what is DeepTech? One will get different answers depending on who you ask. Ask around in VC circles or among founders, and the usual buzzwords emerge – AI, robotics, Internet of Things (107), drones etc. While these are important, DeepTech is far broader. Material science, power electronics.

Material science, power electronics, advanced manufacturing, and molecular drug research are the fields which underpin critical advances in everything from energy systems and robotics to next-generation healthcare and AI hardware. For example, what makes drones both lightweight and durable?

THE DAILY QUIZ

Material science. Why is China ahead in battery tech? Because companies like BYD invested early in core chemistry and

invested early in core chemistry and engineering, and not just assembly. DeepTech isn't about repackaging existing components. It's about bold and original work. It's about building from scratch, failing repeatedly, and pushing the boundaries of what is possible.

the boundaries of what is possible. **Building DeepTech** Understanding DeepTech is like peeling an onion with each layer revealing new dependencies and challenges. There are five core pillars which must align – a product mindset; R&D culture; technical depth; the deucational ecosystem; and supportive government policies. Product mindset is a big missing link. Let's start with a simple question. Which globally recognised product, across sectors – consumer, industrial, medical, telecom, mobility etc – have been conceived and built in India? Even in software, our supposed strength, we haven't produced tools like TensorFlow, Android, QNX, or SAP. While Indian talent leads some of the world's top companies, the DNA of product certaion rewaris weak at home. China began by reverse engineering global products, steadily moving up the value chucts with original R&D. A product mindset and R&D go hand in original R&D. A product mindset and R&D go hand in

Without a culture of experimentation and long-term thinking, no amount of funding can build DeepTech. For R&D culture to flourish, founders need to dirty their hands in technicality. Great DeepTech companies are built by founders with hands-on technical expertise. Think of Google, Tesla,

NVIDIA, and Microsoft. Their founders were engineers, builders, and coders. Larry Page and Sergey Brin wrote the algorithm that became Google while Bill Gates wrote software as a teenager.

To create such companies from scratch, we need founders with deep domain knowledge and an urge to solve complex problems, and not just manage

teams. Moreover, to promote technical depth, our education system needs to change its focus from tools to fundamentals. The journey towards DeepTech starts in the classroom. But how many Indian colleges teach AI or robotics from first principles, the mathematical derivation of AI or close loop control systems fundamentals? Beyond a few IITs, most focus on tool-based training, not foundational understanding. As a result, our engineers often become tool users. not tool often become tool users, not tool

otten become tool users, hot bool creators. We can emulate the likes of MIT and Stanford, where students master core theory before picking up tools. Multidisciplinary collaboration is another must. Most innovations especially in healthcare, mobility, or automation lie at the intersection of helds. Our college projects should involve multi-disciplinary student participation. We must move toward academia-industry collaboration, internships, and real-world problem solving. In the U.S., the Defense Advanced Research Projects Agency has funded challenges that have fostered innovation in robotics, leading to breakthroughs like Intuitive Surgical's Da Vinci robot. creators.

Vinci robot.

And finally, smarter government support will always be a catalyst. India has institutions like the National Research Development Corporation (NRDC) to

promote R&D, but many of the qualifying criteria are irrational. For example, why restrict funding to startups only inside incubators? Shouldn't we evaluate based on the technical depth of the founders, the R&D roadmap, and its potential immact?

Interked Totalinap, and its potential impact? DeepTech startups often need access to fabrication labs, pilot facilities, and test and certification centres, all of which are costly infrastructure the startups themselves can't build. Micro, Small and Medium Enterprises often lack precision, and large corporations demand volumes that early-stage ventures can't deliver. The systemment must create shared

trans carry swage ventures Can't Genver. The government must create shared facilities, and affordable, high-quality spaces for low-volume, high-precision prototyping and testing. This is the only way to bridge the gap between idea and viable product.

#### The road ahead

India's aspiration to lead in DeepTech is both timely and necessary. But to realise this vision, we must orchestrate a coordinated shift across the entire

Founders must deepen technical ecosystem. Founders must deepen technical expertise and adopt a true product plus R&D mindset. Educational institutions must prioritise fundamentals and interdisciplinary learning, and the government must offer smarter, broader, and more agile support. Only through this kind of systemic transformation can we build world-class

transformation can we build world-class DeepTech products which are driven by science, born in India, and built for the world.

Bhupendra Bhate is CEO and co-founder of Saintiant Technologies Pvt Ltd, a company specialising in advanced medical devices powered by AI.

Please send in your answers to dailyquiz@thehindu.co.ir

1

A quiz on the films directed by Guru Dutt on the occasion of the filmmaker's centenary

#### V.V. Ramanan

#### QUESTION 1

Dutt's directorial debut was the Dutt's directorial debut was the 1951 Baazi, a crime thriller which was produced by Dev Anand's Navketan Films. Which famous Indian cinematic nd wrote the screenplay?

#### QUESTION 2

QUESTION 2 Which filck made in 1953, which had Guru Dutt debut as an actor under his own direction, is a period piece set in the 15th century depicting an uprising against the Portuguese?

#### QUESTION 3

Aar Paar made in 1954, what is Guru Dutt's profession and which sibling of his assisted him in the direction?

#### Name the Oscar-winner who designed the costumes for Kaagaz Ke Phool.

QUESTION 6

enacted ?

QUESTION 4 Which popular star is said to have rejected a role in the

tic comedy Mr. & Mrs. 55

due to her hectic schedule, later

QUESTION 5 Dutt's not-so-successful Sailaab, made in 1956, was produced by his brother-in-law who also gave the music for the film. Name him

In Pyaasa, who were supposed to play the roles that Mala Sinha and Waheeda Rehman eventually

lamenting it as her "worst decision ever"?

QUESTION 7 

Visual question: Name this Dadasaheb Phalke awardee and what is his connection to Dutt's career as a director. FILE PHOTO

Questions and Answers to the previous day's daily quiz: 1. The first player to achieve a triple century. Ans: England's Andy Sandham 2. Apart from Bradman and Selwag, these batters have scored two triple tors in Tests. Ans: Brian Lara (WI) and Chris Gayle, both from West Indies 7. The two full nesters, the both from West Indies 3. The two Asian stars who were helming their team while getting a triple hundred. Ans: Sri Lanka's Mahela Jayawardene and Pakistan's Younis Khan 4. The teams that played in the first two England-India Tests had these batters who scored a 300+ for their team. Ans: Harry Brook and Karun Nair 5. The connection between Headingley in Leeds and Antigua Recreation Ground in St. John's. Ans: They

Antigua Recreation Ground in St. John's. Ans: They are the two cricket grounds that has seen three triple hundreds 6. The common link among the triple tons scored by Graham Gooch, Santh Jayasuriya, Michael Clarke a Brendon McCullum. Ans: They all came against

Visual: The speciality about this triple hundred. Ans: It is the fastest triple hundred, blasted off just 278



#### FROM THE ARCHIVES

### Know Your English

#### K. Subrahmanian S. Upendran

"So, tell me, what's the difference between 'look at' and 'watch'?" "When you 'look at' something, you

"When you 'look at' something, you pay attention, you concentrate." "If I say, looked at the painting, it would mean I paid particular attention to the details. Is that what you're saying?" "Yes, that's right. The word 'watch' has more or less the same meaning as 'look at'..."

more or less the same and at "..." "...but you said they were different!" "Let me finish what I'm saying, will you? Unlike 'look at' the word 'watch' carries with it the sense that something is taking place or is about to take place." "You mean if I'm watching something, "hore's something happening?" there's something happening?" "That's right. There's something

happening or there is something about to happen. The word is usually used with things that move or change. For

things that move or change. For example..." "...I watched the painting." "...no, not that. You cannot watch a painting because nothing ever happens to i. I doesn't move, or change. It remains stationary. You can only look at a painting. But you can watch a painter at work." is to

work."
"I see. I can watch a bird, a man, a child, but not a painting... Hey, but wait a minute! I've heard people in movies say, Watch that house!". The house isn't going to move, or change, so why do they use the word 'watch' in this case?" "Because something is happening or is about to happen in that house. Maybe a wanted man is going to walk out of it or something."
"I see, But what about games? You

wanted man is going to walk out of it or something." "I see. But what about games? You watch games, don't you?" "That's right. You watch football, you watch cricket and hockey. You do not say 'I look at football games'." "I don't watch football all that much. But I do watch a lot of tennis." "And where do you watch all your games? You watch it on TV. You either "see' or 'watch' programmes on TX. You do not 'look at' programmes on TX. You do not 'look at' programmes on TX. '' " Is she any good?" "Not bad, actually. She caught me looking at her."

looking at her." "Did she smile at you?" "Why should she smile at me? I didn't

do anything stupid." "People don't smile at you when you do something stupid. They laugh at you

when you do something stupid." "Don't 'smile at' and 'laugh at' mean

"Don't smile at and 'laugh at 'mean the same thing?" "No, they don't. When people 'laugh at 'you they are making fun of you. For example, at the circus when a clown slips and trips, everyone laughs at at sim." "Our physics teacher laughs at us whenever we make a mistake." "It's not polite to laugh at other people's mistakes." "Tell that to my teacher. Anyway, what does 'smile at' mean?" "When you 'smile at' someone, it just shows you are being friendly." "You are not making fun of the other person?"

Person?" "Most definitely not!." Published in The Hindu on March II, 1997.

#### Word of the day Sodden:

wet through and through; thoroughly wet

Synonym: soppy

Alphabet: /so.den/

Usage: He wrung out his sodden shirt.

Pronunciation: newsth.live/soddenpro International Phonetic

AINX



::: (

11

### - THE HINDU -SCIENCE



## NIPGR's gene-edited rice has better phosphate uptake, more yield

Phosphorus is an essential mineral for plant growth and development. In case of limited phosphorus availability, crop productivity drops drastically, Even when phosphate fertilizers are used, only about 15-20% are taken up by plants, while the balance gets leached out or lost through runoff

#### R. Prasad

cientists at the Delhi-based National Institute of Plant Genome Research (NIPGR) have used CRISPR Cass gene editing technology to increase phosphate uptake and transport in *japonica* rice varieties. The resulting rice lines had higher seed and panicle numbers, and thus higher yield without compromising seed quality. The studies were carried out in a greenhouse.

The studies were carried out in a greenhouse. Phosphorus is an essential mineral for plant growth and development. When its availability is limited, crop productivity plummets. Even when phosphate fertilizers are used, only about 1520% are taken up by plants; the rest is leached out or lost in surface runoff. In the gene-edited rice lines, a recommended amount of phosphate fertilizer increased yield by 20%. However, when only 10% of the recommended dose was used, the yield

recommended dose was used, the yield increased by 40% over the control group, Jitender Giri of NIPGR and the corresponding author of a paper, published in Plant Biotechnology Journal,

says "The purpose was to just demonstrate that even under extreme conditions of using only 10% of the recommended using only 10% of the recommended dose, the gene edited lines showed increased phosphate uptake, resulting in 40% higher yield compared with the control group, where the yield reduced sharply, "Dr. Giri says. "But if phosphate fertilizer supply is reduced by 10% or ever 30%, it is very likely that the gene-edited lines rull will photop forms to form the gene-edited lines will still outperform the control plants

Rice absorbs phosphate through its roots and transfers it to the shoots. One class of transporters brings phosphate from the soil into the root while another inorganic phosphate transporter (OsPHO1;2) transfers phosphate from the

root to the shoot. The NIPGR researchers restricted their The NIPGR researchers restricted their work to the root-to-shoot phosphate transporter. When the phosphate transporter OsPHO1/2 starts working more, it will create more demand for phosphate in the root. When this happens, the root-bound transporters will bring more phosphate from soil into the root, "Dr. Giri explains. "We already know there is a negative regulator that controls the expression of the phosphate transporter in the model plant *Arabidopsis*. But what's happening in rice was not known till now."

Identification, removal of repressor In *in silico* and DNA-protein interaction studies, the researchers identified the repressor green, OsWRRVG, and showed that the repressor physically binds to the promoter. To verify if the repressor was indeed reducing the expression of the phosphate transporter, they silenced the repressor by knocking it our using the CRISTR-Cas9 gene editing tool. The

SK (1997)

expression of the phosphate transporter OsPHO1;2 consequently increased

osrnul;2 consequently increased significantly. The increased expression of the transporter should have ideally led to more yield. But instead, the gene-edited rice lines fared poorly compared with the control.

"This was unexpected. We figured out "This was unexpected. We figured out that the repressor was also needed for other functions in the plant. While knocking out the repressor gene completely helped in removing the repression of the phosphate transporter thereby increasing the levels of phosphate in the shoot, we were also removing some essential functions regulated by the repressor," Dr. Giri says.

Removing the binding site The researchers then identified the site where the repressor actually binds to the promoter. The binding site in the promoter is a very short sequence of just 30 base pairs. Again CMSPR-Cas9 was used to remove the binding side of the repressor on the promoter. "We removed only the binding site and not the repressor listef. So the repressor is present in the plant and continues to execute other vital plant functions," Dr. Girl explains. The phosphate transporter OsPHOI;2 is

The phosphate transporter OsPHO1;2 is also regulated by other regulators. By specifically removing only the site where the repressor binds to the promoter, the researchers ensured the binding sites of other regulators are intact, so they could continue to bind to the promoter and regulate its function. Dr. Giri likens it to undertaking a precise, minimal invasive surgery in the promoter gene.

There was enhanced expression of the romoter in the roots, along with screased shoot phosphate accumulation

promoter in the roots, along with increased shoot phosphate accumulation and improved plant growth. When the binding site of the repressor gene was removed from the phosphate promoter, the gene-edited rice plants transferred more phosphate from not to shoot. "The roots start behaving like a sink by absorbing more phosphate from the soil, and this phosphate is distributed throughout the plant," Dr. Giri says. The team found that the gene-edited lines were channelling the extra phosphate absorbed by the roots to produce more seeds by increasing the number of panicles – the fruiting body that bears seeds – leading to an increase in yield by 20%. The researchers analysed the seeds 'sizes, dimensions, and starch and phosphate content, and found their quality to be normal. Since the roots of gene-edited plants absorb more phosphate than before, will become more necessary to continue using the same amount of phosphate syster. In alkaline soil, phosphate forms

fertilizer? Dr. Giff says prospanie to resy reactive. In alkaline soil, phosphate forms complexes with either calcium or magnesium or, if it is acidic, with iron and aluminium. Since these complexes are

In the gene-edited rice lines, a recommended amount of osphate fertilizer increased yield by 20%. However, when only 10% of the recommended dose was used, the yield increased by 40% over the control group

insoluble, the transporters in the root can't absorb them. "In the case of gene-edited rice, the plants will quickly absorb more phosphate before it combines with aluminium, iron, calcium or magnesiu and become insoluble," he explains.

Testing the hypothesis In the study, *japonica* cultivar Nipponbare was used, since making gene-edited lines and transgenics is generally easy with *japonica*. "*Japonica* variety is easy to work with. It's not easy to raise transgenics using *indica* varieties. It will take more time to energe a sufficient a sufficient number of time to generate a sufficient number of gene plants when using Indian cultivars," Dr. Giri says.

Dr. Gin Says. "It's a very important scientific advancement," says PV. Shivaprasad of the Epigenetics lab at the National Centre for Biological Sciences, Bengaluru. He wasn't part of the study. "Soil in several parts of India has phosphorus deficiency. When the same modifications one neuforweak in *india* as the long it. built are performed in indica rice lines, it will be extremely useful. One must also check the efficacy of phosphate absorption, and how much less phosphate farshilizer can be used without compromising yield in *indica* lines. Exciting times ahead."

#### **Off-target events**

Activists have previously objected to gene-editing on the grounds that the IP rights are held by foreign entities. Dr. Giri

sense editing on the grounds that the IP rights are held by foreign entities. Dr. Giri says India is negotiating to license the CRSPR-Cas9 technology. This technology doesn't always target to the bases or genes of interest. Unterpretent so happen – another commendation of the sense of the s

There are multiple tools available for guide RNA design that almost eliminat the possibility of off-target events. It is also important to check for off-target

guide RVA design that annose commany the possibility of off-target events. It is also important to check for off-target regions to ensure off-target events. It is available to theck for off-target events According to Dr. Shivaprasad, there are more than three good *in silico* tools available to theck for off-target events: "Southern blot analysis, particularly junction fragment analysis, is carried out to verify the successful integration or modification of DNA sequences within a genome and to confirm if multiple copies or half copies are not present." NIPCR researchers have this culture-based transgenic generation. When plants are produced using tissue culture, the gene editing has been precise with no off-target events will we even allow the plants to grow to the seed stage," Dr. Giri says. "The rest are discarded. So whatever plant we grow until the seed stage will always carry the correct gene editing from that plant and from the progeny will carry the phosphate transporter that has been precise with no editarget events will we phosphate transporter that has been precise yith one off-target events will we grow until the seed stage will always carry the correct gene editing. The rest are discarded. So whatever plant we grow until the seed stage will always carry the phosphate transporter that has been precisely gene will carry the phosphate transporter that has been

the repressor

#### reign DNA

The third major objection is the presence of foreign DNA. The Cas9 protein used in CRISPR gene editing is derived from Streptococcus pyogenes bacteria. Therefore, Cas9 – which is the DNA-cutting enzyme – carries foreign DNA. Foreign DNA also comes from a soil bacterium as a vector to deliver the

CRISPR-Cas9 components into plant cells. Dr. Giri claims that the DNA from bacteria is removed in the second generation through a simple Mendelian generation through a simple Mendelian segregation method, as the plants are tested before growing to the seed stage to know if the gene-editing has been precise "If you have one trait, the next generation will segregate into 3:1, where three will have the foreign DNA, and one will not. I the next generation, foreign DNA free plants are identified and propagated," he says. seed stage to e will not. In

"It is possible to remove the DNA of "It is possible to remove the DNA of Agrobacterium tumefaciens – the soil bacterium that is used as a vector for delivering the CRISPR-Cas9 components into plant cells – through the Mendelian segregation method; 'Dr. Shivaprasad confirms. When the soil bacterium vector is removed, the *S. progenes* bacterium is also removed as well. India depends almost entirely on imports to meet the domestic demand for phosphate fertilizers. If the new technology is successfull preplicated in Indian rice varieties, it could contribute to sustainable agriculture.

(prasad.ravindranath@thehindu.co.in) 





An aerial view of structures on Nyangai Island or April 30, AF

### Sierra Leone islanders despair as rising ocean threatens survival

#### gence France Presse

Wading through water up to his knees, Hassan Kargbo points to the vast ocean before him, which is eroding the land and imperilling residents' survival on his island off Sierra Leone. "Where we are now, it used to be my house, and we used to have a big football field," Kargbo said, but "the water destroyed everything". Over the past five years, the 35-year-old fisherman has seen the losses pile up as the rising Atlantic waters, which threaten millions across his west African nation, have claimed enormous portions of his have claimed enormous portions of his

island. The inhabitants of Nyangai, located in the Turtle Islands off southern Sierra Leone, have made virtually no contribution to global warming, driven by humanity's burning of fossil fuels.

Yet they are widely considered the country's first people displaced by clima change, as the ever-hotter temperatures melt more of the earth's ice caps, swelling the seas around the archipelago.

The seas around the arcmpeiago. The majority of Nyangai's exhausted residents have lost their belongings and homes several times over, as they crowd further into the island's interior. A team of reporters was able to visit several of the Turtle Islands, travelling

seven hours by canoe from the capital

## The island has lost two-thirds of its surface area and measures only about 200 m long and 100 m wide. All that remains is an islet ringed by canoes, with shacks clustered in the centre

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Freetown. On arrival in Nyangai, pelican colonies, white sand beaches and palm trees make the island appear almost like a paradise. Then the devastation comes into focus: palm trees uprooted by wind and wave, beaches littered with branches and debris, sandbags serving as insufficient ramparts, abandoned furniture scattered by people who have long moved on. In less than 10 years, the island has lost two-thirds of its surface area, and now measures only about 200 m long and 100 m wide.

wide. Seen from above, all that remains is a small islet ringed by fishing canoes, with thatched-roof shacks clustered tightly in the centre.

the centre. Ten years ago, Nyangai still had a thousand inhabitants. Although there is no official census, community leaders estimate that fewer than 300 residents remain. Goats and chickens roam between houses made of white tarpaulins stretched around wooden frames. Fishermen mend their nets, women smoke and dry fish on the sand, and

children scamper on the beach. Due to the shrinking space, the island is incredibly overcrowded. Potable water is lacking due to the soil's saltiness and there are no toilets, electricity or health clinics

More than two million people along Sierra Leone's coast are threatened by rising sea levels, according to a June 2024 study by the country's National Disaster Management Agency and the NGO Internal Displacement Monitoring Centre

Fisherm Fisherman and community chief hidou Bureh stood on the beach looking far out into the ocean where the land used to be.

Hooking lat out mo the occan where the land used to be. "We had many trees here, mangoes, cocontu and other trees, but over the years water has destroyed all of them," the 60-year-old said.Officials and international organisations have not provided any concrete assistance beyond recommending relocation, he added. Kargbo said that his family has already lost its belongings and rebuilt their house in Nyangai twice. But the sea is at their door once again. " have no confidence that Nyangai will continue to exist," he said.



AINX

WORDLY WISE THE GOOD EARTH - WE COULD HAVE SAVED IT, BUT WE WERE TOO DAMN CHEAP AND LAZY. - KURT VONNEGUT

## The Indian EXPRESS Old Delhi, new Washington

Sounded By So RAMNATH GOENKA BECAUSE THE TRUTH INVOLVES US ALL

## ADDRESS MISGIVINGS

Projects on Great Nicobar Island have strategic importance. Government must not ignore transparency-related concerns

N THE PAST five years, the government has taken steps to develop the Andaman and Nicobar Islands as a bulwark of security to the east of the country's peninsular area and as a crucial node for safeguarding India's interests in the Indo-Pacific. The projinstant development of an angular and a section in the index of the provided and the section of the section lar-based power plant spread. Given that the rapid enhancement of the capabilities of aroused porter pain spiced. Growing and the raphot increased the strategic importance of the Bay of Bengal in the past two decades, Delhi's infrastructure push and the building of a strong military deterrence at Great Nicobar hasn't come a day too late. However, the island's ecological sensitivity has made the challenge more complex. Civil society activists and vilidifie conservationists have alleged that the infrastructure upgrade will have the region's indigenous communities, including the largely uncontacted shompen people, it will have negative spinoffs for coral reefs and marine systems and pose a threat to endan-gred species, including the terrestrial Nicobar megapode bird and leatherback turtles. In 2023, the National Green Tribunal (NGT) directed the Ministry of Environment to const Description and the model of the second s

The HPC has reportedly concluded that the environmental clearances accorded to the project "adhered to statutory provisions". The government has, however, not made the panel's report public. Keeping information classified is, of course, necessary at times in matters in-volving strategica fails. But in an ecologically fraging region with a vulnerable local oppula-tion, a project to create a formidable maritime bastion requires engagement with all sections of society. The government's insistence on secrecy will do more harm than good, especially or society, in regovernments insistence on secrecy will domote narm than good, especially because the lack of transparence y around due provedures was a major sticking point with civil society activists. The government has reportedly also wielded the RTI Act's provisions on security and strategic concerns to deny right to information requests about environmental decarances. In March, it used an equally unconvincing argument — the matter is sub-judice — to evade a Rajya Sabha question on the red flags raised by the NGT and National Commission To she due a registrance of the project's impact on local communities. Two months later, Union Minister of Thiba / Affairs Jual Oram said that the government was examining the con-cerns raised by tribal communities, but again refused to divulge details. The Andaman and Nicobar Islands Integrated Development Corporation Limited, which is in charge of the infastructure-development activities, claims that its wildlife conservation plan (WCP) is derived from a framework developed by scientists at the Salim Ali Centre for Ornithology, But the WCP; too, is not in the public domain. Delhi has taken more than 70 years to recognise the strategic importance of the

Andaman and Nicobar Islands. It now needs to set the record right on transparency – a project of national importance cannot be clouded with misgivings.

### PEACE IS THE PRIZE

Biggest obstacle to a ceasefire in Gaza remains Netanyahu. As he visits the US, Trump must seal the deal

FTER 21 MONTHS of conflict, yet another ceasefire in Gaza appears imm nent. Over the weekend, talks were underway in Qatar between Israel and Hamas, mediated by Qatar and Egypt, though there was no breakthrough at the end of the first round. The optimism around a successful deal, however, stems from PM Benjamin Netarayahu's ongoing trip to the US, and becassati veasa, however, stems from PM Benjamin Netarayahu's ongoing trip to the US, and becassati veasa President Donald Trump has been pushing for an end to Israel's bombing campaign. If a new ceasefire is agreed upon, it will be the third one so far. The first, in November 2023, lasted for a week. The sec-ond was discarded by Israel before negotiations moved to the next phase. The urgery cannot be overstated. Israel's military response to Harnas's 2023 terror at-tack has, according to the Harnas-run health ministry, killed more than 57,000 Palestinians and findemed to at the national combine at the table to activitate the table of the table to activitate the table of the table to activitate the table of the table table table.

uach instactioning to the relationse of the metal metal metal and the state of the would look less like a cruel joke if it could nudge Israel towards a cessation of hostilities first

In Israel, there is growing opposition to the war. Ending the war now and getting the hostages backcould even allow Netarayahu to sell Gaza and Iran as his victories. International opinion has turned as well. Israel's allies are either suspending or reviewing existing agree-ments with it. Ultimately, the biggest obstade to a cassefire remains Netanyahu hinself. The war arguably keeps him in power. His government has been propped up by right-wing when againably keeps initing portent in a government in a been propped up by regime ming hawks and his corruption trials continues to be delayed on security grounds. Netarayahu's stated goal of wiping out Hamas from Gaza is at odds with the aim of the militant group's leaders, who seek to retain some presence in the strip, even if it's a significantly weakened one. The one person, however, who can coerce the Israeli PM into a definitive ceasefire is Donald Trump. The US President should ensure the peace before coveting the prize for it.

### **ON HIS BIKE**

Originator of the 'cricket test', Norman Tebbit was key to Margaret Thatcher's project

NORMAN Tebbit told a Conservative Party conference that his unem ployed father didn't riot during the Great Depression. "He got on his bike and looked for work, and he kept looking till he found it: This som possed into the pop-ular imagination as the younger Tebbit's – Britain's newly minted employment secretary – panacea for unemployment, despite his clarifications. He would be greeted with shouts of "onyrehike" for years to come. That's on the only Tebbitism to be mythol-ogised; his "cricket test" is perhaps the most famous internationally – a suggestion that Notes that the logalities of Britian's Asian population could be judged by which side they cheered for in cricket matches. To top it all is his pupper from the satirical TV show Spitting Image: Margaret Thatcher's leather-clad, knuckle-duster-wielding enforcer (the real Tebbi later expressed his fondness for the puppet). To the younger generations, he was always more

expressed his tondness for the pupper], I of the younger generations, he was always more caricature than man, a ghost of the Thatcher years. As a young man, Tebbit, who died on Monday aged 94, developed the individualistic, pro-enterprise philosophy that would make him a natural fit for Thatcher's new conser-vatism — a marked departure from the post-Vark. Keynesian consensus until then: Nationalised industries, strong trade unions and welfare state. Thatcher's 1979 victory would see much of this demolished, leaving a legacy that remains deeply divisive. Tebbit played his part, weakening the powers of unions, driving privatisation and, as party chain-man, leading a successful re-election campaign in 1987. He retired from frontine politics afterwards to care for his wife, who had been left disabled by an IRA bombing.

A working-class Tory who died a baron, Tebbit's life was not without its paradoxes: He developed his animosity for certain union practices early on, but later served as a union official during his career as a pilot and even went on strike. Always a plain speaker and a caustic with, he was once asked if God existed. "He ought to," he said.



### C RAJA MOHAN

MAKING SENSE OF US President Donald Trump's latest move — sending "tariffletters" to countries including long-standing Asian al-lies like Japan and South Korea — requires un-derstanding the profound internal changes in America and their impact on the global order. Some interpret Trump's actions as mere pres-sure tackics against trade partners. Others ar-gue it was never realistic for Washington to recording the compared to the demonstrate trade. gue it was never realistic for Washington to negotiate separate trade agreements with every country. Trump has repeatedly said he would unilaterally set tariffs for most rations while striking deals selectively. As this column goes to press, India is in the second category and might see an interim agreement an nounced soon. (So is Pakistan, which is hope-ful of securing a trade deall Bangladesh is in the first category with a 35 per cent tariff rate.) Yet these developments should not dis-tract India's eitie from grapping with the deeper forces shaping Trump's workbivew – a set of radical ideas that are shaking the in-ternational system to its foundations. In two

ternational system to its foundations. In two

ternational system to its foundations. In two seminal essays in Foreign Affors, Michael Beckley of Tufts University gives us one per-spective on this tumulutus American change. He points to the potential rise of the United States as a "rouge superpower". Beckley first advanced his argument dur-ing Trump's first term, when the President openly challenged core principles of US for-eign policy: Economic globalisation, security alliances, and openness to immigration. Back then. Trump's inexperience and the con-

alliances, and openness to immigration. Back then, Trump's inexperience and the con-straints imposed by the Washington estab-lishment tempered many of his instincts. In his second term, however, Trumpis less constrained and commands near-total dom-inance over a political system the American founding fathers designed precisely to pre-vent the concentration of power in a single in-dividual or party. One might argue that Trump's defance of this constitutional struc-ture is a assume phase. Bar for now he has a ture is a passing phase. But for now, he has a

ture is a passing phase. But for now, he has a free hand to pursue policies on three of his core priorities: Trade, international security, and immigration – heralding the "age of American unilateralism". Crucially, Beckley contends that Trump is not the source of this new American orienta-tion but rather a catalyst for a deeper trans-formation rooted in structural features of the US's position in the world. Since the end of World War II, US foreign policy has been

ambulance sirens and the occasional yell from

This is good, as it usually drowns out the

INDIAN EXPRESS

an incensed driver.

If there is one shortcoming in India's approach, it is the limited appreciation of how American domestic politics is reshaping US foreign, economic, and security policy. Filling this gap demands a broader circle of Indian engagement within America's political system and the policy class. India interlocutors who can do more than lament Delhi's 'illiberal turn' and can explain America's own march away from liberalism. framed as a choice between global leadership and isolationism. Beckley argues that the Trump years have revealed a third path: America as a rogue superpower — abandon-ing any pretence of global stewardship, scom-ing multilateral institutions, and pursuing its interests in a brutally transactional fashion This new unilateralism is grounded in America's 'autonomy'. Unlike ageing alleisn Europe and Asia orrivals like Russia and China, the IS neinoscifistinat Advantance: A ndahowb

Trump's unilateralism demands a deeper understanding of the domestic forces shaping it

> the US enjoys distinct advantages: A relatively the US enjoys distinct advantages: A relatively young and growing population supporting strong consumer demand and economic re-silience: technological leadership in artificial intelligence, robotics, and automation enabling the reshoring of manufacturing and reducing dependence on global supply chains; and self-sufficiency in energy. Moreover, while the US economy is less reliant on exports, the rest of the world depends heavily on selling goods and services to American consumers. It is this acommerty: Trum serva as newerful leverage

Economy as less classical conceptate, une rest of the world depends heavily on selling goods and services to American consumers. It is this asymmetry Tump sees as powerful leverage to reshape the global economic order that America itselfbuilt and nutured over decades. America its utility the political coalition behind Trump's rise. The MACA movement argues that globalisation has hollowed out American manufacturing and betrayed working people. It opposes security alliances and views them as aburden. It resents Washington's "endless wars" fought in the name of global leadership. For this coalition, defending America's bor-ders against illegal immigration takes priori-ity over defending distant allies. Tellingly, Trump's latest budget allocates \$37 billion to US Immigration and Customs Enforcement (ICE) – mearly half of India's defence budget and larger than Italy's entire defence spend-ing. ICE's increasingly aggressive tactics to round up and deport migratism would make many a third-world tippot dictator envious. The US is likely to remain the world's pre-eminent power for the foreseeable future. China's rapid reso nceled to predictions that it would overtake the US naggregate CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now seemi less likely. US CDP this decade. That now se

Delhi already recognises that an uncon-strained Trump is driving momentous global shifts that require major intellectual and pol-icy adaptation indial. To its credit, Delhi has gone further than ever to negotiate a trade agreement with Washington and has learned to manage Trump's anti-immigration agenda. Second, despite Trump's other provocative pronouncements — on everything from trade to Indo-Pak peace — Delhi has maintained composure. Indian policymakers are acutely aware of the gap between signals from the

composite: initian pointymakers are actively aware of the gap between signals from the White House and the rest of the US govern-ment. Staving engaged with the broader American establishment is essential to steady the relationship amid turbulence. Third, India has intensified its engagement with other major powers, both bilaterally and through forums like BRCS. The rhetoric at BRCS solid useest a arbut no the "forknow

through forums like BRICs. The rhetoric at BRICs might suggest a return to the "glorious days" of the Non-Aligned Movement and the pursuit of a collective confrontation with the US. Sceptics, however, see Delha as being as cynical as Beijing and Moscow in betting that bilateral deals with Washington matter more than erandraandine in multilateral eatherings

Datactandeas with Yeasing confluence in the first than grandstanding in multilater and gatherings. In other words, Delhi is not about to revive the foreign policy adventurism of the past. One shortcorning of India's approach is the initied appreciation of how US policits is re-shaping its foreign, economic, and security policy. Filling this gap demands as wider circle of Indian engagement within America's po-licital system and the noisy colass. India needs of Indian engagement within America's po litical system and the policy class. India need litical system and the policy class. India needs American interfactuators who can do more than lament Delhi's "illiberal turn" and can explain America's own march away from liberalism. India needs friends who can go beyond ob-jecting to India's "lack of commitment" to the US partnership and illuminate why Trumpre-serves his harshest criticism for America's Iong-standing allies. India needs America ne-perts who can move beyond criticising Delhi's "Moscow connection" and help unpack Trump's reasons for sparing Russia from the tariff wars. Put simply, Delhi needs more in-tellectual investment in the study of American affairs at home and a more diverse class of ex-perts in the US to engage with.

The writer is distinguished fellow at the Council on Strategic and Defence Research, Delhi, and contributing editor on international affairs for The Indian Express

BENGALURU BLUES

Compared to what I see unfolding around mewars, genocides, caste conflicts, murders, victory parades turning to tragedies — a city that is falling apart is small stuff. I just have to hold my breath as a whiff of garbage or the stink of pee wafts through my nostrils

## to shout at the watchman for not planning for the next water shortage and to hire that ex-pensive tanker to come over and fill up our persive tainer to come over a number of the order of the direct-up sumps? As for the unseasonal rain that has the cute habit of flooding the roads, it's simply time to go "online", no matter that no real work gets done during those classes. Jokes apart, I really think I would. Compared to what I see unfolding around me

Jokes apart, I really think I would Compared to what is ee unfolding around me – wars, genocides, caste conflicts, murders, victory parades turning to tragedies – a city that is falling apart is small stuff. J just have to hold my breath as a whilf of garbage or the stink of pee wafts through my nostrils, and shortly I can breathe again. Also, there is that small thing – the peo-ple. If nothing else, we have each other. The receptionist at my GP's clinic tells me that the later she goes home from the clinic, the worse the commute: a few weeks later, a new receptionist is checking my BF The doc-tor educates me on the need to drink only boiled and coded water, as the stornach bug

boiled and cooled water, as the stomach bus I have may be waterborne. He explains that with all the digging of the roads in the city, the ater pipes are getting contaminated, and at the drinking water is possibly getting inthat the drinking water is possibly getting in-fected, too. I nod and continue drinking my usual filtered water, and perhaps, manage to frighten that stomach bug away.

Speaking of infections, my problem is that this city has found a way to get under my skin. It's hard to live in it, but I don't think I can live

It's hard to live in it, but I don't think I can live outside of it either. Maybe it's the sweet sambar served with a hot oily dosa at my favourite Darshini, Perhaps, the gentle pleasure of reading a few lines in Kannada, whilst not being able to recognise each letter separately, just that the whole makes sense. The old Bengaluru lingo my fellow teachers and slip into when were complaining about how had things are — "No men. the electricity was off all night" Or the my reliow teachers and i sup into when we're complaining about how bad things are — "No men, the electricity was off all night." Or, the yellow Tabebuid that never fails to show up every spring, lighting up the view from my balcony. Commercial Street and its tailors who never give you your dothes on time, but al-ways have a polite excuse delivered with a smile. The quiet graveyard on Hosur Road, with its huge shady trees, where in season, a bed of cream and rose-tipped Pongamia flower buds drown your naked feet as you stand beside the graves of lowed ones, send-ing up a prayer. All this and so much more. Like a wise man said, "If you wake up in the moming, are safe at home, in good health and morning, are safe at home, in good health and have enough for the day, you have all the good things in this world." Amen to that.

Sulaiman is a writer and teacher

#### EMERGENCY THREAT

JULY 9, 1985, FORTY YEARS AGO

SEVERAL OPPOSITION LEADERS have int SEVERAL OPPOSITION LEADERS have inter-preted the PM's press conference remarks about the Emergency as a threat that it might be reimposed. Leaders of the Janata Party, the BJP and the Lok Dal expressed shock at the PM's remarks and declared that they would mobilise the people against such dictatorial trends. The BJP president, Atal Bihari Vajayaev, said he was shocked to read the PM's state-meet that the Emergency uses instified. ment that the Emergency was ju

AKALIS IGNORE CENTRE THE AKALI DAL (L) has ignored the Centre's

vertures for talks and has said the governovertures for tails: ann has said the govern-mentmust "rectify its instates" elading to co-cesses against Sikhs, if it wanted to solve the Punjab problem. The "inistates" would be rec-tified if the government accepted the party? Harchand Singh Longswal, party president, G. 5 Tohra, president of the SGPC, and Parkash Singh Badal, former CM, said.

## SRI LANKA TALKS START THE FIRST-EVER negotiations between the Sri Lankan government and the militant Tamil groups, along with the TULF, started at the Bhutanese capital of Thimphu, The talks were

of a preliminary nature and held in a "relaxed and friendly atmosphere". They were charac-terised by "mutual understanding and accom-modation", a press release said.

#### INDUSTRIAL SAFETY

PROPRIETORS OF INDUSTRIES termed haz rdous will now face "compulsory imprison nent" as penalty for violation of safety regu lations. A decision to this effect has been ladors, AdecLison Oniserie Charlos Deentaken by the Centre following recommendation of the Labour Secretaries and Labour Ministers Conference held in New Delhi recently. It has now been communicated to state govern-ments and Union Territories.

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This is good, as it usually drowns out the monotonous drive-you-crazy drone of a seven-year-old chatting his buddy up – who possesses a litting glass-shattering voice – all the way back home; they never seem to run out of things to say. Today, howgh, something is wrong with the bus, and there's a high-pitched beeping that's accompanying us, as the driver and conductor both have no idea what's cavitori it. what's causing it. A day in the life of a typical Bengalurean but hey, who's neo a vypkan bengantean, but hey, who's complaining. All you need is a little perspective. For, if I was suddenly on my deathbed, wouldn't I die – wrong word, but you get the drift – to leap back into this won-derful life-affirming chaos? Wouldn't I ache and shortly I can breathe again.

To survive in the city, all you need is a little perspective BY ZAINAB SULAIMAN IT'S PAST THREE in the afternoon, and after a THE CITY AND I long, hard but happy day teaching elemen-tary school, we are on our regular tex back home, in a big blue BMTC bus, the acronym for the Bergalarut City public buses. What should take 45 minutes is now tak-ing double the time, something to do with the fact that almost every second road is being dug up, repaired, cremented and built upon. Some roadshave flyower and Metro construc-tion work going on simultaneously – and everywhere there is a cacophory of homking, ambalance simonal model for the second second second second second second the second second second second second second second the second second second second second second second the second se ng, hard but happy day teaching elemen

India needs friends who can go beyond objecting to India's "lack of commitment" to the US partnership

needs American

## THE IDEAS PAGE

## It's not just about a voter list

A sample survey shows that the very principle of universal adult franchise is in danger of being undermined by the way EC's special intensive revision exercise is being conducted in Bihar



BY KAMAYANI SWAMI Rahul Shastri and Yogendra Yadav

CONFUSION AND CHAOS among ordinary Convositor AVA CIANOS among ordinary people. Staggering discrepancy between of-ficial claims and ground reality. A majority of people without any of the documents that are being demanded of them. An over-whelming anxiety among the marginalised sections about losing their right to vote, if

whelming anxiety among the marginalised sections about losing their right to vote, if not their citizenship. These are some of the conclusions that emerged from a rapid appraisal, based on perhaps the first sample survey of its kind, of the Special Intensive Revision (SIR) exer-cise currently underway in Bihar. Over three days (July 5-7), volunteers of the Bharat Jodo Abhiyaan travelled to eight districts and collected information about 709 poten-tial votres. They carried a copy of the latest electoral rolls of 2025 as well as the elec-toral rolls of 2026 as well as the elec-toral rolls of 2026 as the comparison website. They conducted long face-to-face interviews with 163 households and asked them about supply of the enumeration forms and the availability of the documents required for enrolment as per the EC lorder for each adult member of the household. The sudden announcement of the SIR and widespread reports about disruptions and apprehensions caused by it demanded a quick, if rough, idea of the big picture. Our survey cannot claim the level of accuracy of a proper scientific study. Six of the eight districts we surveyed (Katihar, Araria, Darthang, Madhubani, Saharas, Stamathi, Patna (anked among the top performers), all these fall among the mid-dling performers in the SIR. While the sa-lection of assembly segments (12 in all) and thar of poling boots (7 in all) was dictated by the availability of teams. the household selected for interview was chosen ran-domly from the latest electoral rolls. While by the availability of teams, the household selected for interview was chosen ran-domly from the latest electoral rolls. While the findings of he survey are subject to a wide margin of error, they may be more no-bust than drawing-room speculation or anecdotal evidence. The big news first: Two-thirds of Bihar's adult population had not received the enu-meration former ill hot 13d due of the SIB

The big news first: Two-thirds of Bihar's adult population had not received the enu-meration forms till the 13th day of the SIR. We found that, in all, only 43 per cent of families reported receiving enumeration forms, despite a slight but steady improve-ment on each day of our survey – from 39 per cent on the first day to 43 per cent on the final day. Since these forms are individ-ualised (with the printed name and photo of the person from the latest ER), not all members of the family neceive the forms siof the person from the latest ER), not all members of the family receive the forms si-multaneously, in all, only 36 per cent of the adult household members reported receiv-ing the form. Only 6 per cent had received two copies of the forms (one to be submit-ted and another to be retained by the appli-cant) as required under the SIR guidelines. The remaining 30 per cent were supplied only one conv.

The remaining 30 per cent were supplied only one copy. Compare these sobering figures with the official claims. The ECI claimed on July 5 that it had disbursed enumeration forms (presumably two copies each) to 94 per



cent of the persons on the last electoral rolls. Nor just that, the ECI has also claimed that more than 36 per cent have already filled it to the election official big uigy 7. Now, as men-tioned above, our survey may contain fairly any entrys. but the difference between the official big uigy 7. Now, as men-tioned above, our survey may contain fairly any entrys. But the difference between the particular and the number of the survey may contain the number of the survey findings and survey any outside from its office as the number de-tweered to the end user and the number of the survey findings also confirm the survey findings also confirm the survey of the voters who may be required to submit documents to prove their plot do not possess any of the 11 documents on the ECI lar. Survey for the voters who may be required to cuments on the ECI lar. Our teams their names on the 2003 rolls and ex-plet the household members to locate their names on the 2003 rolls and ex-set of all the persons surveyed ful-filed the ECI conditions for inclusion of the system of the 00 or log lar entry for the system of the 2003 rolls and they div-futing any conditions: Their names did on figure on the 2003 rolls and they div-fut sustaggering — above 60 per cent — the system of these do uncent in the sing roup its -0. The rapid assessment estimate of 37 per thm 'ineligible' voters who may be declared ineligible sub-ded prived of their right to voter. The fig-maly on informality, the 'inficitates in the adverticative (not ex-maly conditioning fresh certificates in the advertigent of their right to vote. The fig-maly or informality, the 'inficitates in the advertigent of their right to may be predensioned of their right to may be de-depender of their right to may be predensioned to the right synchronizative (not ex-maly or informality, the 'inficitates in the advertigent of the right to may be predensioned by advert

in major world capitals. Global opinion maters habitually make at least four mistakes: Looking at Pakistan as being forced to secode from India; think-ing that India instigated the conflict between West and East Pakistan; equating blamic na-tionalism with India's cultural nationalism.

Our surveyors found a mad rush for caste or residence certificates, often triggered by the BLO's instructions. In Sonvarsha segment of Saharsa district, Pirvat Ram, a Dalit worker, has spent Rs 150 to apply for a caste certificate for himself, his wife and his mother. Women face a special problem. In the nily of Palti Devi from Bahadurpur in Darbhanga, her three daughters-in-law, Sanjana (26), Pooja (20) and Neha (18), do not know if their parents had their names in the 2003 list.

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draft electoral roll will in any case be pub-lished.) What is at stake is not just the voter list in Bihar, but the very principle of uni-versal adult franchise.

kamayani swami is state coordinator of Bhara (Jodo Abhiyaan, Bihar, Rahul Shatir and Yogendra Yadau work with the national team of Bhara Idod Abhiyaan We would like to thank district team leaders Ram Babu Arya. Mohammad Tarylej, Powan, Govind, Umesh Sharma, Vishwaranjan. Sanjay Kamar and Bhola Nath Singh

What the West doesn't get

There can be no equivalence between India and Pakistan

#### VINAY SAHASRABUDDHE

A BRAHMOS MISSILE - several were fired A BRAHMOS MISSILE – several were fired during Operation Sindoor in response to the gruesome terror attack in Pahalgam – typ-ically costs around Rs 35 croce. For approx-imately less than half that cost, seven all-party delegations have made as much of an impact. Just like the BrahMos, they were precisely on target. Galvanising global polit-ical and social opinion in India's favour at such a time cannot be left to career diplo-mats alone. The decision to send these del-

such a time cannot be left to career diplo-mats alone. The decision to send these del-egations is itself a historic step by the gov-emment, with the political class across the spectrum rising to the occasion. Drends and ments and media, especially from the West, have not grasped the gravity of the chal-lenge of cross-border terrorism faced by India for the last several decades. The West, generally speaking, also has the habit of looking at Pakistan as just another Islamic state, ignoring the history of its origin, its partition in 1971 and its habit of promoting terrorism while playing the victim card. Many consider both India and Pakistan to have legitimate complaints against each have legitimate complaints against each other, viewing both as being at fault, in one way or another. While the challenge of tackling misper-

with the case of East Timor or Kosovo. Those who left for Pakistan during Partition were neither persocuted nor did they face any in-justice. However, the deep-seated guit com-plex of Indian leaders of the time manifested through the policy of Muslim appeasement for several decades post-Partition and lent credence to Pakistan's attempts to present itself as an underdog. This were unchal-lenged primarily because we failed to make the right noises backed by data. In oninionceptions about India — especially our neigh-bourhood policy — is daunting, the least we must do is persuade foreign leaders and opinion makers to drop their habit of brack-eting India and Pakistan together, It is against this backdrop that one must under-stand the importance of policital leaders from across party lines speaking in one wice and attempting to correct perceptions in major world capitals.

tionalism with India's cultural nationalism, and finally disregarding the centrality of the army's role in Pakistan's governance. Why does the global media continue to be shy in calling a spade a spade? Why are terrorists in Jammu and Kashmir referred to as militants? Let's examine the serious-ness of these mistakes, as India has been paying a huge price for the ignorance – manufactured ignorance, in some instances – of the global community. First thing first: The global community needs to be told that the creation of Pakistan out of undivided India is not comparable

itself as an underdog. This went uncnar-lenged primarily because we lialed to make the right noises, backed by data, in opinion-making circles, thereby failing to show how Pakistan shelters and patronises terrorists to ensure its own survival. The second grave mistake of the global community lise in equating the separation of East Pakistan with Pakistan-sponsored secessionism in Jammu and Kashmir, Unlike the government of Pakistan back then, governments in India – regardless of which party is in power – worked to trans-form J&K into a developed state. They've done this by providing huge welfare sup-port to the people of this border area. It would not be wrong to suggest that the con-tinuation of Article 370 was used by the global community as evidence of India's wrongdoing, that it undermined its claim over this Ulion Territory, it high time we

make it clear to the global media, academia and intelligentsia that the case of J&K is not comparable to that of Bangladesh and that the JCLF is not the Mukit Bahini. The BJP has made it clear that not just cultural nationalism, but even the idea of a Hindu rashtra, has nothing to do with a theocratic state. *Exam sat, vipra bahudha vadanti* is the foundational value of our cultural nationalism, reflected not just in the BJP's worldview but in its governance. Indian culture is all about a bhorrence of any monopolistic approach in spiritual matters. Satty. thanks to many in our own Indian culture is all about abhorrence of any monopolistic approach in spiritual matters. Sadly, thanks to many in our own intelligentsia, there are attempts to build a false narrative that eventually allows Pakistan to take shelter under a manufac-

Pakistan to take shelter under a manufac-tured whataboutery. Right from the time of its founding, Pakistan has presented itself as a victim. Indian governments of the time, on the other hand, failed to present Pakistan as an aggressor state. Post-Independence, our leadership always shied away from bringing Pakistan's sepansionism to the notice of the global community with adequate force.

The writer is a national executive committee member of the BJP

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#### WHAT THE OTHERS SAY

'Even with four years of his term to go, there's a palpable feeling in the air that Mr Starmer's time may be coming to an end. Any momentum... was halted by his bizarre decision to begin the new era with sombre warnings... and announcements of imminent cuts to public services." — THE NEW YORK TIMES

## Cool clothing in times of heat

Many states and cities are implementing heat action plans. These should also include access to smarter fabrics



ROHINI NILEKANI

THE MONSOON ARRIVED early this year, bringing relief across the country. It may be hard to forger the record-right summer temperatures, though, when parts of Delhi feli kie 54 degrees Ceisius and Ooty had its warmest day in the past 73 years. In five decades, with average temperatures three degrees above normal. Heat records are being shattered every year. Much has been written about dimate change, global warming and how India will be one of the worst affected by heat waves. We know how heat adversely im pacts human health, causing not only mild waymptoms such as exhaustion and dizzi-ness but also death. India is not alone. Europe and the US are experiencing extreme heat across are superiencing extreme heat across THE MONSOON ARRIVED early this year,

India is not alone. Europe and use use are experiencing extreme heat across large swathes of land, with the added dan-ger of deadly wildfires. Heat claims more than 1,75,000 lives in Europe annually. In India, while thousands suffer or die, gov-ment date is unrealiable. An analysis mma, while thousands suffer or die, gov-ernment data is unreilable. An analysis from Down to Earth estimates that a sim-gle five-day heat wave leads to 30,000 ex-cess deaths in summer. This is way above official figures, though state governments are trying to better classify deaths from heat exposure.

are trying to better classify deaths from heat exposure. In the West, despite the rising heat, summers are still about getting fitti, unpack-ing the bikinis and shorts, and heading outdoors. In India, skinny wear does not take over the season. Linen kurtas and cot-ton dhotis do. Natural fibres, khadi, light colours, and thin fabrics become ubiqui-tous. from the high street to the fashion ramp. And of course, there is the most pop-ular gamcha or thin cotton towel. Yet, it is worth asking a serious ques-tion: What should human beings wear in the face of rising heat? Will traditional clothing suffice? Is cotton really the fabric of choice?

the face of rising heat? Will traditional clothing suffice? Is cotton really the fabric of choice? Indry climates, it might well be. Cotton has always been celebrated for its breatha-bility, accessibility and affordability in lindla. India is the world's second-largest producer of cotton affer China, and fine handspun cotton always had pride of place in its textile history. Can cotton retain its reputation when things get both hotter and more humid? A "wet built" temperature of 35". When high hear combines with high humidity, creates a deadly combination for human beings. The body's natural cooling mechanisms fall, making exposure

mechanisms fail, making exposure life-threatening. Cotton and other natural fibers do ab-sorb sweat, but only up to a point. When ambient humidity is high, they dry slowly, leaving the fabric sticking to the body, in-creasing trapped heat and the risk of skin infections. They also do not provide pro-tection against harmful ultraviolet rays, which are linked to cancer. Humid heat is increasing across India.

Humid heat is increasing across India, Humid heat is increasing across India, especially in the Indo-Gangetic plain, which shelters half a billion people. When

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Smarter fabrics
Smarter fabrics
half the population works outdoors, or indoors with poor insulation, what to wear is a question not just for frustrated teenagers but for every worker and citizen. At home, in the workplace, or in public spaces, people will have to think carefully about protective clohning. In a country almost romantically khadi and cotton, it might be hard to face as startling reality – manmade fibres are better for adapting to heat stress caused by climate change. Recently, in Varnaas, Blinkit delivery partners went on strike to demand, among other things, cotton uniforms for the summer. Perhaps they should have asked for more sophisthey should have asked for more sophis

they should have asked for more sophis-ticated materials. There has been a stumning revolution in material science and biomimicry-in-spired textiles in the past few years. Athletes and urban cyclists and joggers were the carliest adopters of synthetic fi-bres designed to wick away sweat. But the need is far greater for farmers, construc-tion workers and street vendors with high occumational exposure. How can we re-

need is far greater for farmers, construc-tion workers and street vendows with high occupational exposure. How can we re-think the future of clothing? Elsewhere, innovation has been driven by governments. The US set up the Advanced Research Projects Agency-nergy (ARPA-E) foi thand and inter discov-ency across a wide range of technology ar-eas. As part of that mission, Professor TV cuian dh is team at Stanford University de-veloped a textile that is transparent to in-frared wavelengths and radiates heat away from the body. Already marketed in China, the claims it is not too expensive to take to a mass market, and would be critical for farmers around the world as part of a climate adaptation strategy. Other biomimetic fibres are being texed, some inspired by polar bear hairs

Other biomimetic fibres are being tested, some inspired by polar bear hairs with high porosity and aligned pores, for superior thermal insulation. New plast change materials (PCMs) integrated into fabrics can absorb excess heat and release it when things cold down. The list of Cli-mate-smart wearable technologies is ornwine longer. owing longer. India will have to develop its own in

India will have to develop its own in-novation engine to suit our needs. On July 1, the Union cabinet approved the Research, Development and Innovation (RD) Scheme with an outlay of Rs 1 lakh crore, which will support the development or acquisition of technologies of high strategic importance. Some of these funds should be directed to make wearable cod-ing technologies affordable and available to all citizens at the earliest. Many states and cities are creating and implementing heat action plans. So far, none are investigating strategies to help people access smarter fabrics. The RDD scheme might be the right nudge for fresh thinking. This is one opportunity for both the modeling on warming in India proves accurate.

man crass if the modeling on warming in India proves accurate. Khadi was deeply associated with India's independence movement. It will always remain precious. But the past may not always inform the future. Swadeshi new fibres might better dress up the mis-sion for a healthier, more resilient Bharat.

The writer is chairperson, Rohini Nilekani Philanthropies and author of Samaaj, Sarkaar, Bazaar: A Citizen-first Approach

#### LETTERS TO THE EDITOR

## NOT THEIR BURDEN HIDDEN RISKS NOST THEIR BURDEN THIS REFERS TO the article 'Now, prove gour identity' ((LJ)uy 8), The ECS: move is callous; the exercise risks either leav-ing voters out or putting their livelihoods injeopardy. Not to mention the imprac-tical time frame, Citizens with little means will be at the mercy of petty offi-cers. Critics are apprehensive that the SIR will end up stripping those living on the margins of society of their right to vote. here is little doubt that the controvensial NRC has made its appearance on the electoral scene. Albeit through the back door. It is against the principles of justice to place an enormous burden on the state's electorate to prove who they are. SHQuadri, biknowr

STRIKING A BALANCE

THISREFERSTOHEA article, Brownman's burder (JE, July 8). Zohran Mamdani's experience reflects a deeper issue. Often, individual adapto foreign calitures, only to return home feeling disconnected from their ocos. Striking a balance is lexy – respect others' customs while holding on to our own. Shaming eating traditions reveals ignorance, not etiquette. Those going abroad are not puppets—they carry identifies. Eksha Srivastava, Patna

THIS REFERST OT the editorial, "Raise the red lags" (E.July 8). The Jane Street case highlights the serious hidden risks retail investors face in the rapidly evolving, fast-moving, algorithm-driven equity markets. Iris a wake-up-call for retail in-vestors who are busy with short-term rading. Navman, Jane Street Stocal part-ner, fell over 11 per cent, while BSE, Angel One, and CDSL, also declined. SS Paul, Nodia

#### AN OVERDUE RESET

THIS REFERS TO the editorial, "Why THIS REFERS TO the editorial. "Why BRICS' (IE.Juby 8). The recent BRICS sum-min in Riode Janeiro marks a photal mo-ment in geopolitics, highlighting the ur-gent need to reform global governance structures. The declaration's criticism of arbitrary tariff hikes underscores the frustration of developing nations with a un equeual gobal trade system. India's call for reform and balance is timely, es-picality as China's posture becomes in-creasingly self-serving, for BRICS to muy serve as a counterweight, it must consis-tently uphold the principles of equity and justice. The Rio declaration signals the beginning of a necessary nees in global power structures. Sanjay Chopra, Mohul

Sanjay Chopra, Mohali



## Signals from the continuing purge of top officials in China

#### **RISHIKA SINGH**

LATE LAST month, China's national legisla-ture removed Miao Hua, a senior admiral in the People's Liberation Army (PLA) Navy, from the Central Military Commission (CMC) the country's top decision-making body on military affairs.

Conc. The Colling's solution of the colling of the

legislative crede

In recent years, two Ministers of Defence, one Minister of Foreign Affairs and several other key figures in the Chinese state have been purged, with corruption often cited as the reason. Last month's removals are different because of the seniority of the officials, and the fact that they are from the PLA. 'The PLA is the Communist Party's army.

ALIND CHAUHAN

and Russia could also observe an increase

the nonprofit European Association of Geochemistry headquartered in France.

Climate change & volcanoes That melting ice could affect volcanic tivity was first suggested by scientists in e 1970s. When glaciers or ice caps melt

the pressure that the weight of the ice ex

erts on underground magma chambers of volcanoes, reduces. As underground

of volcances, reduces. As underground gases and magma expand, explosive eruptions can take place. The planet has already seen such occur-rences. During periods of major deglacia-tion in Iteland (the last of which occurred between 15,000 and 10,000 years before the present), volcanic eruption rates were 300 to 50 times higher than they are today. Studies have also found that the de-crease in persente when the inter ere on an

crease in pressure due to ice loss can re

sult in the production of magma. This is because rocks held at lower pressure tend

because rocks held at lower pressure tend to melt at lower temperatures. The other factor which seems to affect volcanic activity is precipitation. "Precipitation — also modified by climate change — can inflittate deep underground and react with the magan system to trig-ger an eruption," Thomas Aubry, a re-searcher at the University of Exeter (England), told Polytechnique Insights.

Findings of the research The latest study has confirmed these findings.

EXPLAINED SCIENCE MELTING GLACIERS CAN LEAD TO MORE

VOLCANIC ERUPTIONS: NEW STUDY

Its primary allegiance is to the party, not to the state or the People's Republic of China, and its main task is to help the party remain in power. The party commands the gun, and the CMC is the party's highest military lead-ership body," Jabin Jacob, an associate pro-fessor of international relations at Shiv Nadar University, Greater Noida, said.

Who are these two officials? MIAO, 69, headed the political work de-partment of the CMC, tasked with political education and personent management. "Miao Hua is the biggest fish [caught] in the past two-three years of investigations [into corruption] and subsequent purges?; said Anushka Saxena, a researcher at the Bengaluru thinktan Klakshahila Institution, whose research focuses on the PLA.

L, 60, was rumoured to be under inves-tation since March, and has not been seen in public since then. Such "disappearances" in China often indicate that the official is facing an inquiry. Li was chief of staff of the PLA Navy, and its third-ranking officer.

What is the CMC, and why is it important?

The CMC is the final decision-making au-thority on a wide range of defence matters, including weapons procurement, military priorities, and combat preparedness. At the top of the seven-member CMC is paramount leader and President Xi Jinping. "Xi's position as CMC chairman is his second most important position in the Chinese po-litical system after the position of general secretary of the Communist Party of China, and more important than his sosition as

Itical system after the position of general secretary of the Community Party of China, Saxena recalled that when power was being transferred from Deng Xiaoping, the leader who initiated China's eco-nomic liberalisation in 1978, he initially re-fused to let go of his position in the CMC. "Deng believed that utilitately, being President of China or general secretary of the Community Party doesn't matter because by being the CMC chairman, you have the arm at your commembers, who bead various de partments. Protégé networks or client-parton networks within the party play an important

role in CMC appointments, Saxena said. The CMC ranks higher than China's

The CMC ranks higher than China's Defence Ministry. This is why in the wake of the 2020 Galwan incident line which Indian and Chinese troops clashed violently in Ladakh, Foreign Scertary Vikram Misri, who was India's ambassador to Beijing at the time, met with CMC official's Tacob said. The Defence Minister is usually part of the CMC. However, after the provison Minister, Li Shangfu, was removed from the CMC in October 2023 and dismissed from the Communist Party in Jusce2024 (also for corruption), his successor, Donglun, was not made a CMC member.

Why is corruption often cited as the reason for these purges? Corruption has been a concern in China

Shortly after assuming power in 2013, Xi

unleashed a massive anti-corruption cam-paign. "The focus has [now] shifted from the political and legal apparatus to the military to the financial sector, but all groups continue to be targeted," Jacob said.

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

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Corruption in the PLA is "entirely logical", besaid – given that it has been growing rap-idly for several decades now, and significant sums of money and serious responsibilities are at play, with great power accorded to in-dividuals and institutions. While tackling corruption might help Xi consolidate power in some instances, it is not the only motive driving the purges, Jacob said. Saxena said that i corruption were only a front. it would not be prudent for X1 to re-move loyalists such as former Minister of Defence Li or Foreign Affairs Minister Qin Gang (in July 2023). Both men were elevated as they enjoyed XI's support. Within the Communist Party, various fac-frons – based on common regional back-rinuously jostle for power. "In this sub-addreship-level factionalism, each faction will try to reveal skeletons in the other person's doset. Xi can sometimes have no option bat it

closet. Xi can sometimes have no optic take action. A key reason he is in power today is that he told party elders he would root out corruption from the party," Saxena said.

What does the turmoil mean ultimately

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The purges suggest an element of insta-bility and inefficiency in the system. But they also demonstrate X's ability to easily remove high officials. "Xi demands not just loyalty but also hom-esty to go with efficiency and progress. Such culling at the top might indicate a deep-rooted malaise within the system, but it also signals to the public that the supreme leader is serious about improving it. Simul-taneously, lower-ranked officials get the message that there exists a path to promo-tion based on both loyalty to the party and following party discipline," Jacob said. What incentive could the supreme leader in a non-democratic setup have to demon-strate zero tolerance for corruption? There is a sense of political insecutivy in China currently. Savena said. "From Beijing's perspective, it is in a precarious position with regard to domestic economic concerns, faivan, and the economic and political state

wan, and the economic and political stat of the world. It cannot afford an inefficien bureaucracy or military right now," she said Well-functioning defence, political, and economic systems will also help ensure the longevity of China's one-party state structure.

UNFCCC process. Brazil said long-standing issues such as excessively long agenda items, overlapping themes, scheduling constraints, and barriers that prevent meaningful participation of smaller delegations, needed to be addressed. The country has also talked about main-streaming climate conversations in other multilateral forums, including different UN agencies and financial institutions. It has finated the idea of creating addi-

It has floated the idea of creating addi

It has floated the idea of creating addi-tional multilateral mechanisms that can complement the UNFCCC process, and push the implementation of the decisions taken at climate meetings. Brazil has also drawn up a list of 30 items on which it would work with other countries to accelerate climate actions.

Developing nations' demand to

## EXPLAINED CLIMATE **Reforming UNFCCC process**

In recent years, climate negotiations have failed to achieve sufficient progress in tackling climate change and its impact. Several ideas have been proposed to reform these talks but it's unlikely that they will be implemented

# AMITABH SINHA

THE INTERNATIONAL climate negotiations, held under the UN Framework Convention on Climate Change (UNFCC), have been fac-ing a credibility crisis in recent years. Their outcomes have been largely under-whelming as they have not delivered the kind of action required to curb global warm-ing. Developed countries that fail to meet their targets, or deliver on their commit-ments. have not heen held to account ments, have not been held to account Developing countries, particularly the small and most vulnerable of them, have repeatand most vulnerable of them, nave repeat-edly complained that their concerns are of-ten ignored, and that the negotiations have failed to deliver climate justice. Also, the withdrawal of the United States from these negotiations, following the return of Donald Trump to the White House this

year, has threatened to make the entire process irrelevant.

As a result, there has been an effort to As a result, there has been an effort to re-infuse trust and confidence in the sys-tem in the lead-up to the COP30 meeting in Brazil which will take place in November. As the host of the COP30, Brazil has been actively engaged with other countries to ex-plore the possible steps that can be taken in this direction.

In this direction. The annual mid-year climate meeting in Bonn, Germany, which wrapped up last month, discussed the ideas and suggestions submitted by countries, climate groups, and non-government organisations, to reform the system and make it more effective. Suggestions for reforming

#### climate negotiations

The Bonn meeting, held in the second half of June, acknowledged that the "growing scale and complexity" of the climate negoti-ations presented challenges. It also empha-sised the need to "improve the efficiency of bet UNIOC meeting and the second secon the UNFCCC process in a transparent and in-clusive manner". However, the proposals that were in-cluded in the discussions were not radical.

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The closing plenary of the Bonn summit on June 26. UN Climate Change

Amongst the things proposed was stream-lining agenda items to eliminate overlap-ping or redundant issues, and asking coun-tries and observer groups to restrict the length of their statements to allow for more

tries and observer groups to restrict the length of their statements to allow for more time for negotiations. Notably, it was also proposed that countries limit the size of their negotiating teams. The discussions m-mained inconclusive, and would continue in the COP30 meeting. Civil society organisations and climate advocacy groups, which have been at the forefront of the demads to reform the UN-FCCC process, have been asing for more fun-damental changes. At Bonn, a letter signed by more than 200 such groups, suggested five major reforms. One of them was a de-mand to allow majority-based decision mand to allow majority-based decision-making when attempts to find a consensus

Ternain elusive. The UNFCC works through consensus, which means no decision is accepted till every country accepts it. In a way, every country has a veto. Getting all of the more than 190 parties to agree to every part of a decision has always been a big challenge. This is often blamed for the lack of ambition in the outcomes of climate negotiations. The civil society groups suggested that countries that do not have a good track

record of climate action be not allowed to hold the COP meetings. In the last few years, the choice of Dubai and Baku for holding COP meetings has come under criticism as their es are sustained largely by the fossil fuel industry.

Economies are sustained angely of un too-sil fuel industry. As called for reducing the participation and involvement of represen-tatives of fossil fuel companies and other polluting industries in COP meetings. There have been allegations that these companies influence the outcomes of COP meetings in their favour. Any decision to reform the UNFCCC process will have to be approved through consensus by all the parties, and it is unlikely that any of the more radical suggestions would go through.

#### Brazil's bid to rebuild trust in the system

the system As the host of the COP30, Brazil has to take leadership in ensuring its success. The outcome of this meeting will be measured largely by the faith and confidence that coun-tries, mainly developing and vulnerable ones, are able to put back into the process. In a recent letter to all the parties, Brazil acknowledged the need for reforms, and asked them to "consider" the future of the

increase climate finance

Increase Climate linance For developing countries, the single biggest issue currently is the lack of adequate money to finance their climate actions, and the failure of developed countries to deliver on their obligations to provide climate finance. To comply with the provisions of the 2015 Paris Agreement, the Baku meeting had to decide on a new finance mobilisa-tion target for developed countries, which, as of now, are under obligation to, collecas of now, are under obligation to, collec-tively, raise at least \$100 billion a year to

tively, raise at least \$100 billion a year to help developing countries. While the needs of developing countries were assessed to be at least \$121 million ayear, developed countries agreed to mobilise a sum of just \$200 billion a year, and that too from 2035 onwards. Developing countries have continued to put pressure on the developed world to take additional steps to increase the availability of finance. They stalled the discussions in the Brown poseing bat mooth and manaed to

of finance. They stalled the discussions in the Bonn meeting last month, and managed to force a special meeting on the issue. However, it remained inconclusive. The mat-ter's likely to dominate the discussions at the COP30. BRICS, a group of nine large and influen-tial developing economies, also weighed in on the subject at its recently concluded meeting in Brazil. In a semante declaration on climate fi

meeting in Brazil. In a separate declaration on climate fi-nance, the BR/CS countries asked developed countries to fully deliver on their finance commitments under the UNFCCC and the Paris Agreement, while increasing their con-tribution to adaptation finance.

authority detains a vessel to secure a mar-itime claim against it or its owner. The court found merit in the maritime claims of the Kerala government, it ordered the detention of the MSC Alkertal J until 8 9,531 crore was deposited or security was furnished by the owners of the vessel. "It is averred in the plaint that the dam-age occurred on account of oil pollution caused by the said vessel and pollution caused by the said vessel. It is averred that the compensation is computed in accordance with the Central Pollution Control Board Guidelines? The court order said. Of the R\$ 9,531 crore claim, R\$ 8,626,12 crore has been sought for environmental damage caused due to the sinking of MSC Elso III, and R\$ 378,48 crore for the remedi-ation work to minimise, prevent or remove

the university of the second s

## Ship 'arrested' after Kerala claims damages: how do admiralty suits work?

NIKHIL GHANEKAR NEW DELHI, JULY 8

 NEW DELH, JULY

 THE Krala High Court on Monday order to conditional "arrest" of Liberian code to compensation code to some to conditional "arrest" of Liberian code to compensation code to some to conditional "arrest" of Liberian code to compensation code to some to code to



Deception Island in Antarctica, captured by the American Landsat 8 satellite in March 2018. The horseshoe-shaped island is the caldera of an active volcano. NASA

Researchers examined Chile's Mocho Ch shuenco volcano to est of volcanic rocks produced before, duri and after the last ice age. They found that due to a thick ice sheet over the volcano ssure had suppressed the volume o pressure had suppressed the volume of eruptions between 26,000 and 18,000 years ago. This led to the formation of a large reservoir of magma 10-15 km below the surface of the volcano. However, once this ice sheet melted about 13,000 years ago, explosive eruptions took place.

#### The effects on climate

Ine effects on climate Wokanic enzytoins can cause tempo-rary cooling as they release ash or dust into the atmosphere, which block sought. These eruptions also emit sulphur dioxide into the atmosphere which is more effective than ash particles at cool-ing the surface of the Earth. Sulphur diox-ide in the stratosphere reacts with water to form sulphuric acid aerosols, which re-tofict in comission and radiation. "The aerosols can stay in the strato-sphere for up to three years, moved

"The aerosols can stay in the strato-sphere for up to three years, moved around by winds and causing significant cooling worldwide. Eventually, the droplets grow large enough to fall to Earth, "according to the US Center for Science Education. However, sustained volcanic erup-house gases, including carbon dioxide and methane, which could increase the warming of the planet. This can become avicious cycle – as global temperatures

a vicious cycle – as global temperatures rise, there will be a higher rate of melting of ice, which could cause more eruptions and further global warming.

km southwest of Alappuzha. The ship went down with more than 600 containers, some of which carried plas-tic pellets, hazardous substances, and diesel.

The jurisdiction of the courts extends up to the territorial waters of the jurisdictions. The limit of terri heir respective rritorial waters

is up to 12 nautical miles from the neare point of a low-water line along the coast. This also includes the seabed, subsoil (the layer of soil under the topsoil on the sur-face), and airspace above it.



What does the law say about claim

capsized off Kerala coast on May 25. Reuters over environmental damages? The Kerala government has sou pensation for environmental dam

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pensation for environmental damage un-der Section 4 of the Admiralty Act. This sec-tion states that the HC "may exercise jurisdiction to hear and determine any question on a maritime claim, against any vessel, arising out of...damage... caused by the vessel to the environment...; measures taken to... remove such damage; compen-

sation for such damage," etc. Apart from the Admiralty Act, other laws too address issues of compensation and ac-countability in such cases. Under the Merchant Shipping Act, 1958, ship owners are liable for oil pollution damage in the event of leaks. The Environment Protection Act, 1986 empowers authorities to take ac-tion against polluters. The National Green Tribunal (NCT) can also be approached to seek environmental compensation. In 2016, the Tribunal or therd a Panama-based shipping company to pay RS 100 crore in damages for an oil spill after its vessel MV Rak sank off the Mumbai coast in 2011.

#### So what does Kerala's admiralty suit say?

The Kerala government's admiralty suit sought the arrest of the MSC Akiteta II until compensation was paid to the state. In mar-itime law, the arrest of a ship refers to a legal procedure where a court or other competent



Binduslan Times

#### OUR TAKE ]

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## **More of Trump** trade uncertainty

The latest move underscores the need for countries to have a strong bargaining chip in talks with the US

Then President Donald Trump announced reciprocal tariffs on April 2, he marked the end of an era in global trade where the US was both a vanguard of the rules-based multilateral trade order and the largest market for many exporters. This arrangement did not just help exporters, the US too had access to cheap goods. Before the tariffs could kick in, Trump put them on hold till July 9 during which period bilateral deals were to be negotiated on terms beneficial to the US.

A day before the deadline was supposed to expire, the US announced almost identical tariffs on 14 countries — they range from Japan to Myanmar in economic importance and India is yet to get a "letter" -and threatened significant additional tariffs in case they retailate. To be sure, Trump has kicked the can of tariff imposition down the road once more, this time to August I. A few days ago, he announced a differentiated tariff deal with Vietnam: 20% for Vietnamese goods and 40% on trans-shipments (read redirected Chinese exports to the US). A temporary truce with China had been struck even earlier.

Is there a larger takeaway from all this? Three observations can be made. One, Trump seems to have overestimated his deal making abilities with other countries. The tariffs are pretty much what they were in April, and the announcements have been unilateral rather than bilateral. Two, the US's approach to trade has now clearly shifted from a 'target China' strategy to 'target everyone'. While Trump has agreed to a 55% tariff on China as part of a temporary truce, tariffs on other countries are also significantly high, even though lower than China. The rest of the world will clearly take note of this. Three, and this is the most important, is the message that in order to negotiate with the US, one has to have a strong bargaining chip now. Trump's détente with China came after the latter held back its critical rare earth mineral supplies, the lack of which would have crippled electronics manufacturing in the US. Countries which do not have such cards against the US are being dealt a much worse deal. To be sure, Trump's ultimate test would be whether

the US economy can survive the inflationary impact of these tariffs as and when they kick in. The August 1 deadline might well be extended once again. Uncertainty is the only certainty now.

### Need to make cities pedestrian friendly

ndian cities, including the national capital, are Indian cities, including the national capital, are increasingly becoming uncaring of pedestrians, as this newspaper reported on Monday. Pedestrian demands are limited, but by no means insignificant or capable when it comes to mobility planning — accessible, unobstructed, levelled and continuous walkways. Yet, India's mobility infrastructure seems to ignore such needs, apart from infrequent afterthoughts in some cities. It is perplexing why civic administrations fail to provide for walkers in India's cities. Unlike roads, highways, and expressways that now overwhelmingly cater for private vehicular traffic (funding for the roads sector has increased phenomenally over the last couple of decades), footpaths don't need large couple of accaaces), noopaths don't need arge investments. Neither are they complicated civil construction work. Yet, civic agencies rarely get factors determining pedestrian friendliness — such as dimensions and accessibility — right. The less said about maintenance and upkeep, the better. Multilate informer stress results for multiple

Walking infrastructure is a sorry state for multiple reasons. First, pedestrian needs are easy to overlook. They don't have the heft of private-vehicle owners to influence policy. As a result, while the demand for under mode are pelliding thereine and the demand for wider roads gets political attention, well-designed walking space remains a fringe concern. Moreover, the powers that be, including those making and executing civic policies, have a clear disconnect with pedestrians rarely having to walk anywhere. Second, a multiplicity of civic governance authorities means routine digging of civic governance autorinties means routine sigging of footpaths and road-cutting even as no one takes ownership of repair. Third, whatever infrastructure is available is often hijacked for parking, vending, etc. The solutions are straightforward, subject to political and administrative intent. To start with, Indian Road Commensue and end on the mean deviation information theorem.

Congress standards for pedestrian infrastructure must be adhered to strictly. Parking policies on paper must be implemented to declutter the cityscape, including footpaths. Multiple civic agencies must be brought together — Bengaluru's Tender SURE attempts this — to ensure road cutting is minimised. Walking infrastructure can't remain no one's baby any longer.

## Power games that the big boys play

With India vying for a place on the global high table, its representatives in Bretton Woods Institutions must recognise these are institutions of

international governance and not just partners for economic development

Conomic development Development Data of the international Monetary Fund (MF) listed India as the fourth-largest economy in the world with pushing Japan to the fifth place. And he World Bank's 2025 Povery and Equity Brief notes that India has achieved record poverty reduction with the share of those living in extreme poverty (under SL2) per day) having failen from 16.2% in 201-12 to just 2.3% in 2022-23.

failen from 16.2% in 2011-21 to just 2.3% Such affirmation should normally have meant only *blushi* (happiness) with the Bretton Woods Institutions (BWIs), But, I thas been *kabhi khushi*, *kabhi gham* (sometimes happiness, sometimes sorrow) principally because of their largesse toxic in formenting and spreading terror in India and globally. Added to nitis, there has been the

termination of the services of our executive director (ED) at MF at the very moment that matters per taining to a ballout for haldstan were coming up. There are allegations he missased hangstion to get several State-owned banks to buy a book of his in extraor-dinarily large quantites. There are also reports of his having false fold of handling of insider information and work methods. The Fund's ethics committee was likely to act, leaving the government with little option other than avoiding the figure state the D facing strictures on ethi-cal lissues.

Manjeev Puri

ED facing strictures on eth-cal issues. Galling, from India's per-spective, vas a financial ballout to Pakistan soon after the Pahagam terror attack on April 22, despite India's strong pro-test. A few days later, there were reports of the World Bank agreeing to a loyaer, 340-billion development package for Pakistan. Following this, the Asian Development Bank (ADB) authorsed \$800 million in early June, gain, sidestepping strong criticism by India. Are there lessons for us in these happenings?

by india. Are there tessons for us in these happenings? The most important one — mores on global leadership ladder — is internalis-ing that BWIs are institutions of inter-national governance and not just part-ners for economic development. Apart

Why India must drive

the future with EVs

dia is the world's third-largest automo

ndia is the world's third-largest automo-bile market, contributing nearly 78: to GDP and supporting millions of liveli-hoods. But the sector stands at a pivotal inflection point. A global technological transformation is rapidly silifing the automotion engines (ICE) towards the final frontier of inovation – electrification. And this transi-tion is accelerating faster than many expected.

## from pursuing our domestic develop-ment agenda, we must also play the power game of nations. Second is having a clear understand-

from pursuing our domestic development agenda, we must also play the sense of the BWIs, where we have a sense of the BWIs, where we have a sense of the BWIs, where we have of the the BWIs where we have a sense out the the BWIs is to be a sense of the BWIs, where we have of the BWIs where we have of around 5%, a blocking stake for many has a sense of around 5%, a blocking stake for many has a sense of around 5%, a blocking stake for many has a sense of around 5%, and the UK and been sense where the furgoest and the sense of the BWIs we have a sense of the BWIs we have the sense of the BWIs we have a sense of the BWIs we have a sense of the BWIs we have a sense of the BWIs we have the sense of the BWIs we have a sense of the BWIs we have the sense of the BWIs sen

The issue of quota reform at the Bretton Woods Institutions has been on the table for years and keeps getting pushed back. player. Practically speaking, the executive board must be on board for mo

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player. Practically speaking, the execu-tive board must be on board for most operational matters. For matters of strategic importance, this means not only reaching out to board members in Washington and other capital bit also having the secretariat in alignment with your perspective. As a developing country, India's interest in BWs has focused on the domestic implications of the latter's actions, especially on helping us with our development priorithes. Naturally, the custodian of dealing with these institutions is the ministry of finance, they doin high table, it is important that the country's representatives in the governance structures of these bod-ies now not merely push actions that have positive domestic bearing for us at also serve our external relations.

ien now not merely push actions that have positive domestic bearings for us but also serve our external relations. An integrated domestic and external approach is thus an intescapable imper-ative. A metaphoric Kartavya Path (persious) Pajapahoric Kartavya Path Biock (where the finance ministry is based) and South Biock (where the external affairs ministry is based), must be bridged. For years, the custo-dian of the government purse (the finance ministry) successfully placed its officers in key Indian diplomatic

ushed back. 247 missions dealing with connonic issues. But now, it is time for them to also take in diplomatic expertise both in New Pethi and within the officer of our exec-utive directors to the IMF, the World Bank and the ADB. Simultaneously, efforts need to be made to place gov-atough call as the latter rebuff such fordrs is yopining to their own recrui-ment of the "best and brightest". Such fordrs is yopining to their own recrui-ment of the "best and brightest". Such fordrs is yopining to their own recrui-ment of the "best and brightest". Such entrational governance, "mine" and the uspond. But, for an institution of international governance, "mine" and real to substituted by "godd". In meant with substituted by "godd". The meant substituted by "godd". The meant with a substituted by "godd". The substituted by "godd" with the substituted by the substituted by "godd". The substituted by "godd" with the substituted by the substituted by "godd". The substituted by "godd" with the substituted by the substituted by "godd". The substituted by "godd" with the substituted by ander to the prover all years of experi-ference ministry and/or the Beserve Bank of India (RB) were usually sec-tonet with weight expended by the post of DDs. Such choices much to barting for India's domestic to the substituted by "godd". The substituted by and and by the substituted by and by the substituted by and by the both substituted by and by the substituted by and by the both substituted by and by the substituted by the both substituted by the substituted by and by the both substituted by the substituted by the substituted by the both substituted by the substituted by the substituted by the both substituted by the substited by the substituted by the both substituted by the sub

Manjeev Puri is former ambassador of India to the European Union and deputy permanent representative of India to the UN. The views expressed are personal.



### Inclusive & effective forest conservation, courtesy AI

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ty-rich but vulnerause anama, error Chars. In areas outside wildlife protected zones (around 5% of findin's land), A has begun alding mitigation of human-wildlife conflict. In Tamii Nadu and Chhattisgarh, Al systems track ele-phant movements near settlements and send automated alerts via SMS and public display automated alters via SMS and public display systems. AI can also protect forest partolers from animal attacks (tigers and elephants) by klentflying high-risk zones and times based on historical data. Al-enabled geofencing and aggressive animal behaviour tracking can issue real-time alter. Offering guards precious sec-onds to retreat or take safety measures. Reforestation strategies too can be reshaped by AI. In the Arawallis, to combat desertifica-tion. Al is being used to design ecologically auit able replanting models based on species resil-kence and habitat compatibility. In Utaraikand and Himachal Pradesh, Al tools can be tested

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Mrinalini Naik and Ujjwal Bhardwaj are advoca practising in the Supreme Court. The vie

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Amitabh Kant

E-DRIVE scheme. State governments have also introduced incentives and EV-friendly policies, reinforcing the national vision. These efforts are beginning to show of two-wheeler sales, 23.4% of three-wheeler an overall market pneatration of 7.5%. While encouraging, this is still far from sufficient of the scheeler sales, 23.4% of three-wheeler an overall market pneatration of 7.5%. While encouraging, this is still far from sufficient of the scheeler sales, 23.4% of three-wheeler an overall market pneatration of 7.5%. While encouraging, this is still far from sufficient of the scheeler show the scheeler show the scheeler scheeler scheeler scheeler scheeler and the scheeler schee

tion is a accelerating faster than many expected. Biobally, the shift to electric vehicles (EVs) is undeniable. According to the international foregraphic sources and in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year vere 50% of new cars sold in China last year and fotst green industrial growth. With zero talippe emissions and nearly three times the efficiency of ICK chinals control in China last year in the government of India last introduced incentives and EV-friendly. Deblicits, enformers, State governments have solicitor-unforcing the national vision. These efforts are beginning to show Fourth 25. State Source of the Source of th



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Amitabh Kant is former CEO, Niti Aayog and served as India's G20 Sherpa. The views expressed are personal. Mrinalini

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### **Business Standard**

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### Letters and the spirit

Mr Trump has pushed global trade into uncharted territory As widely expected, United States (US) President Donald Trump on Monday sent As widely expected, United States (US) President Donald Trump on Monday sent letters outlining tatiff rates ranging from 325 to 40 per cent to be imposed on imports from over a dozen countries, effective August 1. Countries that have been informed about the new tariffs include Japan and South Korea, which will be charged a 25 per cent tariffon imports aside from the sectoral rates. Indial did not figure in this exer-cise, and a statement by Mr Trump Indicated that India and the US were close to arriving at a trade deal. From the Indian perspective, this must be welcomed, and the government must be credited for actively engaging with the US administration. However, the nature of the deal and possible concessions from both sides remain unclear. News reports suggest details may be out late Tuesday night, India time. With the end of the nord-wire rause on the invencibing of the anovelled

unciear. News reports suggest details may be out late Tuescus might, india time. With the end of the 90-day pause on the imposition of the so-called reciprocal tariffs and the US sending letters, a few things are now clear. Negotiating individ-ual deals with trading partners is not easy and, as many had feared, the US has decided to act unilaterally, imposing high tariffs even on countries with which it has free-trade agreements. Despite the hectic negotiations, the US has only been able to reach adeal with the United Kingdom and Vietnam, though questions have been raised about the latter. There is a deal in place with China, but it is more to do with the survey of non-centre helements. with the supply of rare-earth elements. The letters again reveal that the driving force or the spirit behind Mr Trump's action is the trade deficit with respective

force or the spirit behind Mr Trump's action is the trade deficit with respective countries. For thim, a trade deficit with any country is a reflection of unfairness and can be corrected, at least partially, with tariffs. Furthermore, the US will be open to increasing tariffs if trading partners decide to retaliate and would consider lowering tariffs if trading partners open up their markets or invest in the US. The US actions now clearly show that it has no interest in preserving its leadership position in the multilateral global economic order. It approach is driven by narrow, possibly short-term calculations, much of which has no sound economic basis. Now that it is clear that the US tariffs will be much bidner than the waven before Mr Turmor's "Insertion David "announcement or for has no sound economic basis. Now that it is clear that the US taritts will be much higher than they were before MrTump's "Liberation Days' announcement, or for that matter, the 90-day pause period, it would likely affect inflation expectations and play a significant role in the US Federal Reserve's calculations, delaying mon-etary easing. Potentially higher inflation and the expected increase in debt — in part because of MrTump's "Big Beauliful Bill", which was signed into law recent -would push up borrowing costs. This may lead to MrTump further increasing pressure on the Fed, which he believes is not doing the right thing by holding policy interest rates. policy interest rates.

For India, it remains to be seen how a new deal with the US will impact its For india, it remains to be seen how a new deal with the US will impact its domestic economy and exports. There are concerns in India over the potential opening up of the agricultural sector, which supports the livelihood of about half the country's population. Although it will be important to see the kind of tariff advantage India is offered compared to its peers, potential gain may remain limited. Note that the US policy is driven by its trade deficit, and an increase in deficit with any country may attract revised, higher tariffs. Mr Thump has pushed the global trade order into uncharted territory, and it remains to be seen how those software in the near to medium term. Als the will deneed on how colored harders things evolve in the near to medium term. A lot will depend on how other large economies approach the situation. India must be open to emerging opportunities in the new order.

### Nutrition transition

Focus should now be on diet quality

The National Statistics Office recently released the Nutritional Intake in India The relational subsciences office recently released into Pottmonoral initiate in indua report, Analysing the data from the Household Consumption Expenditure Sur-veys (HCES) for 2022-23 and 2023-24, the study offers several insights into India's evolving dietary patterns. The findings suggest stability in average daily per capita calorie intake, with rural India recording 2,233 kcal in 2022-23 and a marginal dip calone intake, with rural india recording 2,233 kcal in 2022-23 and a marginal dip to 2,212 kcal in 2023-24. Urban India shows a similar plateau, with 2,250 kcal and 2,240 kcal for the respective years. While this seems reassuring, India's nutrition landscape reflects both progress and persistent challenges. A particularly encour-aging trend is the improvement in calorie intake among the lowest-income groups. The bottom five fractile classes in rural India and the bottom six in urban areas have seen a rise in average calorie intake, reflecting improved food access for the root unlearable sections. most vulnerable sections.

More importantly, the wide disparities in calorie consumption between the More importantly, the wide disparities in calorie consumption between the poorest and the wealthiest have narrowed significantly, signalling a welcome reduction in nutritional inequality. The data also reinforces a long-observed cor-relation. Higher monthly per capita consumption expenditure translates into greater access to calorie-rich diets, though both spending on cereals as a percen-tage of total expenditure and percentage of calories derived from cereals as a percen-tage of total expenditure and percentage of calories derived from cereals as a percen-tage of total expenditure and percentage of calories derived from cereals decrease. With urbanisation accelerating and disposable incomes rising for segments of the population, this dynamic is expected to strengthen. While calories are crucial, they tell only part of the story. Regarding the quality of diets, the data suggests a shift in protein computing matterne. Cereals continue to dominate protein in backet. in protein consumption patterns. Cereals continue to dominate protein intake, in protein consumption patterns. Cereais continue to dominate protein intake, accounting for d-4-7 per cerea in rural India and 39 per cerea in both periods. Yet, their contribution has declined significantly, signalling a dietary tran-sition. Protein intake from eggs, fish, meat, and other sources has risen noticeably, accompanied by an increase in milk and dairy consumption. Increasing dietary diversification is a positive development, particularly given the concerns over protein-energy malnutrition in India. But this transition is norman. With interval the direction in the protein but more approximately beneficiantly and the source of the source of

uneven. Wide inter-state disparities remain, underscoring how geography, local food systems, cultural practices, and economic conditions shape dietary outcomes. For instance, Odisha and Chhattisgarh were found to have the highest percomes. For instance, Odisna and Chnattisgarh were found to have the highest per-centage share of calorie intake from cereals, around 57 per cent, and 51 per cent, respectively. Meanwhile, the lowest contribution of cereals in calorie intake was found in Punjab (35.5 per cent) in the rural sector, and in Punjab (34.7 per cent) and Haryana (33.4 per cent) in urban areas. Similar to protein intake, interstate vari-ations are also observed in fat intake in rural and urban areas. Between 2009-10 and 2023-24.1 fat intake rose by more than 15 gm across the country, with urban areas registering considerably higher fat consumption than rural areas. Higher body fat content seems to be than more illevic nuese holm of eins obseins zetse. The areas registering consideraby nigner fat consumption than rural areas. Figure body fat content scems to be the most likely cause behind rising obesity rates. The overall trend signals an opportunity to promote sustainable and affordable protein alternatives, such as pulses and plant-based options. Investment in agricultural diversification and supply-chain improvement can enhance access to affordable, nutrient-rich foods. Nutritional education should also be prioritised to encourage adequate intake of micronutrients and macronutrients to combat deficiencies and lifetatie directore. lifestyle diseases.

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## Three nationalisations

There are lessons from how governments over the years have dealt with SBI. LIC and Air India

About seven decades ago, the Indian government under Prime Minister Jawaharlal Nehru nationalised under Prime Minister Jawaharlah Nehm Tationalised three major entities. One of them — State Bank of India(SBI) — is celebrating the 70th anniversary of its reincarnation this month. The second — Life Insur-ance Corporation (LG) — will mark/70 years of nation-alisation in 2026. And the third should have celebrated its 70th anniversary of nationalisation two years ago, but could not do so as it was privatised just a year before turning 70 as a nationalised outfit. This was Air India. as Air India.

The trajectory of these three e The trajectory of these three enter-prises that embarked on their individ-ual journeys over the last seven decades tells the story of how Indian govern-ments over the years have looked at the ownership pattern of economic entities — and what could determine the future of their ownership pattern. A close examination of the key factors at play would be instructive. would be instructive.

**RAISINA HILL** 

would be instructive. A common factor uniting the three entities is that they all belonged to the services sector. One was providing ava-ation services and the other two ware providing finan-cial services – offering banking and like insurance facilities to customers. They were all touching the lives of people in ways many heavy industries or manufacturing companies would not. The governnent's approach to their ownership was perhaps nfluenced by that realisation. Interestingly, Nehru's Interested by the transator. Interestingly, the test of test o

companies in the industrial or mining sector, like tex-tiles and coal. Looking back, the strategy behind nationalising the Imperial Bank of India and renaming it SBI seems to have paid off. Over the past seven decades, Section to have paid on to very local banks. Section 2014 SBI has grown stronger, retaining its status as the country's largest commercial bank. From a national point of view, SBI has also played a major role in helping the government of the day to manage many crises and achieve its governance goals. These included SBI meeting the credit needs during the India-China war in 1965 through a special scheme, shipping 20 tonnes of confiscated gold to a Swiss bank to help India precure \$240 million in May 1991; raising 81,6 billion under the India development bords scheme later that year to ball the country out of its precarious balance of payments situation; and launching the Resurgent India Bond scheme in 1998 to raise \$4.2 billion from non-resident Indians to beltare the government's foreign exchange reserves.

to raise \$4,2 billion from non-resident Indians to bolster the government's foreign exchange reserves. It also took the lead in promoting the government's financial inclusion plan by opening Jan Dhan accounts, the lar-gest among all banks. And when the gov-ernment launched the controversial electoral bond scheme in 2018, which permitted anonymous donations to political parties, it was once again SBI

CHARYA CH leadership? This has been a bone of contention once in a while between the regulator and the government.

in a while between the regulator and the government. With over 5 per cent of its equity being owned by the government and the rest widely held by the public. SBL, has never been a candidate for privatisation or even further disinvestment. The country's top bank is treated as a strategic asset and all governments have believed in retaining its status as a public sector entity. There is little doubt that SBI's ownership pattern will remain unchanged, even though the debate over the nature of regulatory oversight and procedures for appointing its top management is likely to continue. LIC, India's largest life insurance company, will ownplet For years as a nationalised entity in Janu-

complete 70 years as a nationalised entity in Janu-ary 2026. In 1956, the Nehru government promul-

gated an ordinance to nationalise as many as 245 Indian and foreign insurers operating in the life insurance sector and merge them into a single entity — LIC. The government justified the decision on the rounds that there was widespread corruption in the ector and life insurance services to the people were

**OPINION** 9

sector and life insurance services to the people were adversely affected. In a quiet operation, CD Deshmukh, the finance minister at that time, chose to address the nation on All India Radio to announce the government's deci-sion to nationalise the life insurance industry and create LIC. For about 37 years, LIC enjoyed a mon-opoly over life insurance services in India, until other private sector players were allowed into the market in 1993. But LIC has continued to retain its number one status in the life insurance server cover

market in 1903. But LiC has continued to retain its number one status in the life insurance sector over the past 32 years. In 2022, the government decided to list LiC on the bourses and shed a 3.5 per cent stake through a public offer. It has authorisation to sell up to 20 per cent of its stake to foreign investors, buile loss than half a per cent of that limit has been used so far. Over the next few years, the government has the flexibility to reduce its stake from 96.5 per cent to over 50 per cent. But given the current lukewarm approach to disinvestment and the government's resources position, such stake dilu-tion is unlikely.

the government's resources position, such stake dilu-tion is unlikely. LIC is a profitable company and its current share in the first-year life insurance premium income in the country is over 57 per cent. The combined first-year premium income business of all private-sector life insurance providers issmaller than that of LIC. But, as in the case of SH, governments over the years have used LIC to undertake operations at their behest — whether to rearrow a fulling marker or to accurize whether to support a falling market or to acquire stakes in companies to ward off a takeover threat. In

stakes in companies to ward off a takeover threat. In the years a head, therefore, the government may reduce its stake in phases from the current level, but it will continue to be a majority owner of LIC. The case of Air India, which was set up by the Tatasin 1932, is completely different. After the Nehru government decided to nationalise both their civil avi-ation industry and Air India, the airline expanded its international operations. However, its financial per-formance was poor and got worse after the aviation formance was poor and got worse after the aviation industry was thrown open to private players in 1994. In 2007, the government merged Indian Airlines, another state-owned aviation company operating domestic services, with Air India. But the losses kept mounting and after several unsuccessful attempts, the government finally managed to privatise Air India in 2022. Air India's journey since the Tatas bought it back has been rocky. The government has every reason to feel relieved that it no longer has to use tapayers' money to finance the losses of a state-owned entervise. owned enterprise. The nationalisation story of these three entitie

The flattonausation story of times targe enables has one clear message. If an entity is to be retained under state ownership, the government must ensure it remains profitable, does not become a drain on the exchequer's resources, and plays a strategic role in the government's overall plans for economic develop-ment. Enterprises that do not fulfil these conditions have no reason to continue to operate as public sector wint: "This we broadly the scrift of the overmoment's units. This was broadly the spirit of the government's public sector policy enunciated in 2021. The lessons from these three nationalisations once again under-line the need for pursuing that policy.

statement, but that depends on Mr Trump's mood. The contours of the prospective deal are revealing. India is reportedly willing to cut tariffs on automobiles and other industrial products and allow limited etha-nol, almonds, apples, and when imports. It may also agree to regulatory reforms. In return, the US won't reduce most-favoured nation tariffs — only the special "Liberation Day" duties. Even after cuts, Indian exports will likely face a 10–15 per cent sur-charge over UB saseline tariffs.

Even after deal, peace is no guarantee For example, after the recent Brics Summit In Rio — where members criticised UStrade unlateralism and discussed launchinga common currency — MrTump Intenatened a fresh 10 per cent tariff on all Brics members for pursuing "anti-American" policies.

Global trade flows getting affected In May 2025, China's overall exports rose 4.6 per cent year-on-year, but its exports to the US crashed by 4.4.5 per cent — a clear sign of rising tensions. To offset the loss, China has shifted focus to other markets: Exports to the EU rose 12 per cent, to Assem by 15 per cent, and to India by 12.4 per cent. This redirection raises con-cerns of dumping and unfair competition in third-country markets, showing how US tariffs are reshaping trade in disruptive ways.

Unlike Vietnam, where exports comprise 93.8 per cent of gross domestic product, India's figure is just 21.9 per cent. That gives New Delhi more room to breathe.

Indian exports will likely face charge over US baseline tariffs

Time for strategic patience Unlike Vietnam, where exports

## Trump's MASALA playbook India is at a pivotal juncture Although there's no official word yet, India has made its offer, responded to US demands, and set its red lines. Any US response — or deal announcement— could come suddenly, possibly through a late-night Trump post on Truth Social. India may prefer a joint statement, but that depends on Mr Trump's mood. "Other offer an of the response moveling"

Over the past few days, India's government and industry watched anxiously as the July 9 deadline for tariff relief from the United States (US) approached. Many expected a last-minute India–US trade deal, but none was announced. Instead, Wash-ington extended the reprieve to July 31 — buying time but increasing pressure on countries to sign deals on US terms.

time but increasing pressure on counter-deals on US terms. What the US is offering are not normal trade deals but MASALA deals -- Mutually Agreed Setti-ments Achieved through Leveraged Arm-twisting. These one-sided agreements offer tariff relief only if countries agree to guaran-teed US exports and politically useful wins for President Donald Trump, with little regard for fairness or reciprocity.

Liberation Day tariffs

Liberation Day tariffs The story began on April 2, when Presi-dent Trump stunned the world by announcing new country-specific tariffs on 57 nations — 26 per cent on Indian (EU) exports, and up to 54 per cent on others. The fallow was immediate: China and officiaded a combined \$t trillion in US. Tre boords, scheding tolobal practice and Wall Strage AJAY SRIVASTAVA and Japar

bonds, shaking global markets and Wall Street alike. Responding to the blowback, the White House kesponding to the blowback, the White House softened its stance on April 9, Imposing a 90-day pause and a uniform 10 per cent tariff on most imports, excluding China. This pause was presented as a "window' for countries to negotiate fast-track bilateral deals with the US.

Only two deals by deadline Despite intense pressure from Washington, only tw countries signed deals with the US by the July deadline: Vietnam and the United Kingdom. Initially facing a 46 per cent tariff, Vietnam negoti-ated a deal under which US goods enter Vietnam duty-free, while Vietnamese exports still face a 20 per cent tariff in the US. The UK offered deep tariff cuts on 2,500 US products — yet it secured minimal reciprocal benefits. A dismayed Mr Trump was forced to extend the

cuts on 2,500 US products — yet it secured minimal reciprocal benefits. A dismayed Mr Trump was forced to extend the furfl pause until July 3: to get more countries to sign deals. On July 7, he signed personal warning letters to 14 countries. Japan, South Korea, Malaysia, Kazakhstan, and Tunisia were told to expect 25 per cent tariffs from August 1 unless a deal was con-cluded. Bosnia, South Africa, and others were assigned 30–40 per cent duties. More such "final warnings" are expected this week. But the US also drew a red line: No retailation allowed. Countries that raise their tariffs in response risk facing even steeper US duties.

Why are countries resisting? The US was negotiating with over 20 countries. So why have only two signed on? Because these aren't grounite trade agreements — they are classic MASALA deals. These involve guaran-teed purchases of US products and ural concessions by partners, in return for paray tafff relief. There's no reciprocity. Dan and South Koreo, for example, base

structural temporary tariff relief. There's no reciprocity. Japan and South Korea, for example, have formal free-trade agreements (FTAs) with the US (in force since 2020 and 2012, respectively), elimin-tating tariffs on over 90 per cent of US goods. Yet both now face new 25 per cent tariffs simply for running trade surpluses. Aft Trump isn't seeking market access — he's demanding guaranteed meat, gas, aircraft, and more purchases. Australia is an even stranger case. Despite granting duty-free access to 90 per cent of US goods under the 2005 FTA and running a \$17.9 billion trade deficit with the US. Cambera is being pressed

strangely translucent back-ground." In 1955, she sailed to

ground." In 1955, she salled to England to study radiology, the only female student in Westminster hospital's radiology department. Returning to India a few years later, Dr Bhargava set to work applying her expertise at Irwin Hospital. In 1966, she joined the radiology depart-ment at Alims, at a time when Joined the raciology depart-ment at Alims, at a time when the field was in a sorry state, hampered by outdated equip-ment and primitive technol-ogy. Dr Bhargava played a key role in shaping the trans-formation of Alims — build-ing upseveral departments, position and with no political

despite opposition and with no political clout of her own. Pushing for radiology to become an integral part of patient care, she took it from a "back-office role into mainstream medicine" and was dubbed the "Indira Gandhi of Alims" in the pro-cess. India is still severely short of radi<sup>1</sup>Did with precision, candour, and wit, Dr Bhargawa kaccourt does not shy away from controvensy — or from a chrowkedging her own shortcomings, as doctor or a parent. While a few sec-tions feel disjointed and some repetition creeps in, the book is filled with episodes that would engage anyone with even a passing interest in public health. From hospital politics and clashing egos to dif-fourt notificians and controversial hospital politics and clashing egos to dif-ficult politicians and controversial appointments — the book details the inner workings of an institution and beyond at a pivotal time of medical advancement. Her reflections on the pressures on doctors, the rise of women in medicine, and changing motivations in the industry are noteworthy — par-ticularly her observation that medicine has, over time, lost much of its reputation as a "proble" reforsion.

The reviewer is a Delhi-based freelance journalist who writes on policy, develop ment, public health, gender and culture



a first-day-at-work as heart-stopping as Sneh Bhargava. The day she walked into All India Institute of Medical Sciences (Alims) as the institu-tion's first woman director in October, 1984, then Prime Minister Indira Gandhi, 1984, then Prime Minister Indira Gandhi the person who had approved her appointment, was rushed into emerg-ency surgery with severe gunshot wounds. In those overwhelmingly tense moments, Dr Bhargava was pushed into the deep end, forced to manage a situ-ation of monumental national signifi-



cance. Days later, as the staff at Ailms cance. Joys later, as the start at Alms tended to scores of injured Sikhs and Hindus who were attacked in the anti-Sikh riots, Dr Bhargava ensured that Sikh staff and students on campus felt safe and protected. It is one of the many anecdotes in Dr

'The Indira Gandhi of Aiims'

Bhargava's compelling memoir that illus trate her role in some of India's most trate her role in some of India's most transformative medical moments. Now 95 years old, she reflects on how the responsibility of leading an institution like the Alims was a heavy one, with con-stant pressures A changing disease pro-file with more chronic conditions, a deluge of patients, shortages of funds and nursing staff, a housing crisis for doctors, dealing with obmodous VIPs, and changing political winds. Ercored into aritement at are on by

and changing political winds. Forced into retirment at age 90 by pandemic-induced restrictions, Dr Bhar-gava began to flesh out her story, told in remarkable detail. As the book traces her personal and professional upheavals and

-

ologist, marking many trists, chief among them being instrumental in bringing ultrasound and CT scanner to India, which changed how diseases were diagnosed. After 30 years at Alims, six as its director, Dr Bhargwa went on to establish the renowned Sitaram Bhar-tial institute of Science and Research, and Dharamshila Narayana Superspe-ciality Hospital. The seeds were sown early: Raised by progressive parents who were her biggest cheerteaders, Dr Bhargwa grew up with sense of purpose. As a little girl, she would frequently fuss over treating her dolls for tonsillitis, and then her sister, often alaming her mother. She remembers her early years fondly, first studying in Dahousie, and then in

posted as a member of the judiciary under British rule. victories, she tracks the movements in the medical profession in India unfold-ing against the backdrop of global advancement in medicine. Dr Bhargava built her career as a pioneering radi-ologist, marking many firsts, chief among them being instrumental in being aroutherson of and Crassan perto-Delhi, where the next chap

"Partition shartered our gentle world, uprooted everyone and sent us packing to India — alive but empty handed." As refugees, they were granted land in Nizamuddin West in



The Woman Who Ran AllMS: The Memoirs of a Medical Pioneer by Sneh Bhargava Published by

245 pages ₹699

1

The author is the founder of GTRI ologists, but she notes how artificial intel-ligence can bridge those gaps, particu-larly between urban and rural healthcare. Told with precision, candour, and

as a "noble" profession.



Lahore with her extended family, where her father was

hand in Nuzamudain West in Dehli, where the next chapter of the family's life began. After studying MBISs at Lady Handinge Medical Col-lege, a series of circumstance led her to specialise in radio-goy, a field that at that time was not recognised as a vital medical discipline and offen dismissed as a producing mere "black and white pictures". It was a charge DT Bhangava passionately pushed back against, time and again. She enjoyed challenging norms. "Radiology would fulfil my passion of wanting to treat the entire body, not juus to ene or two organs," she writes. And later: "I was end-lessly fascinated by the milky white and

trade deficit with the US, Canberra is being pressed to buy more US beef and other goods. In Washing-ton's calculus, trade balances, FTAs, and past con-cessions no longer matter.

luminous images of the body against the inky black but



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Union minister Dharmendra Pradhan

The vision of a developed India is incomplete without developed villages and prosperous farmers...It is important to adopt chemical-free, natural farming and to ensure that technology moves from the field to the market

### **Good showers**

**FINANCIAL EXPRESS** 

India's rain-fed agriculture crucially depends on monsoon rainfall during June and July

HE GOOD NEWS for agricultural operations during the kharif or summer season is that the southwest monsoon has rapidly or summer season is that the southwest monsoon has rapidly advanced to cover the entire country nine days ahead of its nor-mal schedule on July 8. The monsoon also had an early onset over Kerala eight days before its normal date of June 1. It subsequently stalled in the first half of June and revived in the second half with above normal rainfall for the month as a whole that was 109% of its long period average (LPA). Good rainfall in the first month of the monsoon season average (LFA). Good raintai in the first month of the monsoon season marked average (LFA). Good raintai in the first month of the monsoon season overall deficiency in June. In July, too, the India Meteorological Depart-ment (IMD) forecasts above normal rainfall of 106% of the LPA, which augurs well for brisk sowing operations for crops like paddy, coarse cere-als, pulses, and soya bean.

als, pulses, and soya bean. June and July are the most crucial months in this regard. Kharif sowing in fact accounts for 60% of the annual crop production in the country. The prospect for above normal rains should result in higher levels of kharif food grain output in the 2025-26 crop year from July to June. The southwest monsoon's serily onset has proved advantageous for paddy cultivation. Kharif sowing for pulses like moong and urad, oilseeds led by groundnut, and coarse cereals have gained momentum as monsoon progressed after halting in the first half of June 2025. Kharif sowing has covered 40% of the normal area and is up by 11% on year as of July 4. There is, however, a prospect of rains stalling again from July 5 to the 15 and reving there after. Farm sentiments have been buoyed by a hike in minimum support

prospect of rains stalling again from July 5 to the 15 and reviving there-after. Farm sentiments have been buoyed by a hike in minimum support prices for 14 kharif crops—ranging from 196 for moong to 13.9% for ragi onyear—that are also higher than their prevailing mandi prices. Although sowing of soya bean is up by 4.7%, there is an expectation of a decline in acreage as farmers shift to alternative crops because of low realisation in the last twoyears. Overall kharif tidings are positive as rain-fall is expected to be above normal in the core monsoon zone—that includes Madwa Pradeeh Chhartifieseth Maharaetht and Odisha. Tail is expected to be above normal in the core monsoon zone—rnat includes Madhya Pradesh, Chhattisgarh, Maharashtra, and Odisha— which covers much of India's rainfed agricultural land. Good rains will also fill up reservoirs. Although above normal rainfall boosts kharif oper-ations, it also entails risks like flooding, landslides, and other disruptions. The monsoon's fury in Himachal Pradesh has been felt in districts like Mandi, Landslides in Uttarakhand blocked over 100 roads impacting the Char Dens reliviour sorts

Mandi. Landslides in Uttarakhand blocked over 100 roads impacting the Char Dam religious yatra. Metropolitan India is woefully unprepared to cope with such unusual events as storm water drains are rarely de-silted in time and rainwater inundates roads and habitations. The IMD warns that the catchment areas of rivers like the Godavari, Mahanadi, and Krishna must be closely moni-tored. The upper Mahanadi catchment area includes Chhattisgarh and Madhya Pradesh that are in the core monsoon zone. While the kharif farm-ing heartland benefits from good rains, there is also the prospect of flood-ingepisodes. Timely IMD agromet advisories to farm out excess water from crop fields will be very useful in this regard. While the good news is that the monsoon is active all over the country, the policy impera-tive must be to insulate agriculture from its vagaries by building more irri-gation facilities in its core zone.

### Europe's AI law needs a smart pause, not a full stop

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Getting governance code right

Follow a core responsibility

CLEAR OVERSIGHT

REGULATORS NEED TO TEMPER EXPECTATIONS FROM EXALTED MODELS OF CORPORATE GOVERNANCE

HANCIAL SECTOR REGULA TORS have been quite proact-tors have been quite proact-ing and improvising and improvising and improvising second second second entities (RES). Rightlys og siven their lofty mandate of investor protection, system integrity, financial stability, and so on, sequalators could succeed greatly in their mission if they get that magical governan-ec ode right and make RES governance failure under their watch. And the search failure in insurance services etc. are fresh leaster. Perform and some the opporten ming to intensity its monitoring of bank banardP. for the to board proceedings of their AEs in terms of quality of discus-sions, contributions of band committee, mismatch between recorded discussions and minutes, and so on. Though post-ion the board proceedings of their AEs in terms of quality of discus-ness and some theore are former senior of the bank provide and many of the independent directors are former senior upualtory of folicals, former bank beads. Descriptions and faile and the search of

independent directors are former senior regulatory officials, former bank heads and former senior civil servants. The Securities and Exchange Board of India (Sebi) issued a consultation paperon Strengthening Governance of Market Infrastructure Institutions (MIIs)—stock Infrastructure Institutions (MIIs)—stock exchanges, clearing corporations, and depositories—taking note of the "rapid increase in investor base and volumes, a growing network of intermediaries asso-ciated with them, significant growth in revenue and profitability"etc. Irrespective of whether they are listed or not, SebY's hold on governance of MIIs has been very CKG NAIR

er, a former member of the Securities Appe unal and former director of National Institu unities Markets, is a public policy commen The writer, a fo

tight for several years. The Mahalingam Committee's (November 2022) tight for several years. The Mahalingam Committee's (Rovember 2022) recom-mendations on Mil's governance enhan-cement were implemented just two years ago. The new proposals aim to enhance the governace standards of two out of three hypetiting each of these verticals under a decicated zeceturity entry of directors. These proposals are further ing the stopt taken based on the Mahalingam Commit-tee's recommendations. Unlike the R8I+proposed SSM monitoring system, SSM monitoring system,

SSM monitoring system, Solisisnot stepping nearerto the MII board. Rather, it is enhancing the accountabil-ity of the officers of the MII itself, by raising their status as board directors. Still, is an indirect recognition that a public interest director-based sys-the MII and the status of th

itseit, by raising their status as board directors. Still, is an indirect recognition that a public interest director-based sys-tem is falling short of expectations. Over the last 25 years, the regulators have spent quite a lot of their time and energy in developing a "robust" system of governance of their REs. While the main lead on corporate governance is lifted by SEBI, prudential regulators (RBI, Insur-ance Regulatory and Development Authority of India, Pension Fund Regula-nace Regulators for listed environs for listed environ-Sebi regulations for listed environs for listed environ-supplant for their unlisted REs. Nooroe can accuss Sebiofframing gov-ernance related regulations or guidelines unliaterally or with routine public consul-

tations. The model edifice built for listed

tations. The model edifice built for listed companies over two decades has been the distilled recommendations of various co-maintees headed by eminent professio-nal entrepreneurs (KM Birds, 2000; Nara-yana Murthy, 2003; Uday Kotak, 2017). Eaborate regulations relating to the com-position of board, number of board com-mittees, enhanced role of independent directors, improving disclosures came from these committees. For MIs, the Pherwani Committee's (1994) recomme-ndations and the govern-

mmittees (1994) recomme-ndations and the govern-ment's bold policy in sett-ing up a demutualised National Stock Exchange and appropriate fit and proper criteria got supple-mented through some of the recommendations of approach rather than a catch-all one actions ications ications afterperiodic fine-tuning by Sebi, got rein-conductions in 2022. The RBU Res dot the committee's recommendations in 2022. in investigations and adjudications

toreedwith the Mahalingam Committee's recommendations in 2022. The RBI has had the benefit of several expert committees on banking/hon-banking financial company (NBFC) refo-ms over decades. Specificat attention to the governance of bank bands particularly of tublic sector banks, was the mandate of the JF Nayak Committee (2014). Elevated norms on corporate gover-nance also came from eminent, philoso-pher directors on boards of companies of repute, through their writings. They glo-rified the ideal governance edifico using the high-principles of dharma, elo-quently picking exemplary anecdotes from the epics.

Mile even with sens mileto-scrutiny of financial sector listed banking companies or NBFCs with Sebi and the RBI supervis-ing them as conduct and prudential regul-ators respectively? Why is reputation risk not making REs govern themselves well, even when theirboards are full of eminent directors? What havenera directors are the movies

standards for corporate governance, by a proactive Sebi with other regulators on a par, why is it that governance at times be-comes a casualty? What all is governance of MIIs even with Sebi's micro-scrutiny? Or

ators respectively? Myy is reputation risk ort making RES govern thesewless well, even when theirboards are full of eminent directors? What happened to the much-halled governance principle of "giving yo-ice to values" by independent directors? There are no easy answers to these qu-extinns. Basically, there are limits to behav-iour modification, even with the best of intention. Abige diffice of laws and regulat-ions cannot substitute norms and princi-les, as stated by institutional thinkers. Regulators got carried away with an exal-ions cannot substitute norms and princi-les, as stated by institutional thinkers. Regulators got carried away with an exal-dormer regulatory chief, who bater joined as independent director in a few boards, add"the regulator is in an utopia; reality is a joie" Dharma in the modern corporate-inanciai- tech word is an image. Not only promoter/shareholder directors but even heindependent director but even heindegendent director in a few boards. Acknowledging the complexity of gov-runaton and skill gaps, love giving their volet to value ather than to values. Acknowledging the complexity of gov-our-linear functions, regulators should tevetorpia, he preciscial world. Differenti-ate between financial-tick diving but your bus a core responsibility approach to est to result or atch-all one in investiga-tions and adjudications. Clearly demar-tions and adjudications. Clearly demar-tions and adjudications. Clearly demar-tions and adjudications. And low there norm their business. And alow them to run their business. And alow them to run their business. And alow them a governance award from their regulator/s.

## A push towards edible oil security



#### PURNA CHANDRA KISHAN & RISHI KANT

ry and additional ex riculture and farme

INDIA IS THE world's largest importer of cooking oils. That's not just a statistic—it's a strategic vulnerability. We consume over 27 million tonnes annually, with imports a strategic vuneraouity, we consume over 27 million tonnes annually, with imports meeting nearly 57% of this demand. In 2023-24 along, we imported around 16 million tonnes, over 60% of which was palm oil, mostly from Malaysia and Indo-nesia. This overreliance exposes us to price shocks, supply chain distruptions, and geopolitical shifts—tisks that have inten-sified in recent years. However, this pre-

ness. Insoverrelance exposes us to price shocks, supply chain disruptions, and geopolitical shifts—risks that have inten-isfiel in recent years. However, this pre-sents an opportunity. The National Mis-sion ne tähle olis—Oil Pain (MREO-OP) is India's bold bid to pivot from import dependency to elf-relance. By decisively and sustainablyscaling this mission, India can buffer its connomy and contribute to reshaping global edible oil dynamics. Oil palm cultivation in India has exp-anded steadily over the past three decades. From the modest 6,673 heteres in 1992-93, the area under oil palm has grown to offol palm as a strategic corp for reducing the country's dependence on imported edibleiois. The expansion has been driven by improved awareness, technological interventions, and increased participation from fammera across several states, such as Andma Pradesh, Telangana, Karnataka, Andma Pradesh, Telangana, Karnataka, Andma Pradesh, Telangana, Karnataka, Andma Pradesh, Telangana, Karnataka, Urith budgetary support of 71.104/0 crore available under the mission.

### LETTERS TO THE EDITOR

#### Invest wisely

Apropos of "Resisting the quick buck" Apropos of "Resisting the quick buck" (FE\_July 8), its estimated that over 90% of retail players lose heavily in futures and options trading. So, the wise thing to do would be to stay invested by taking delivery. However, in a bid to make a fast buck, the guilible jump in where angels fear to "trade" and lose the precious little they have. Retail players are no match for the foreign trading firms with their deep pockets and sophisticated algorithms. Jane Street has been caught, but there will be others doing the same. There are suppl market Caugh, but there will be others doing the same. There are several market influencers selling useless courses on how to make money in futures and options trading for a hefty fee. Those who treat the stock markets as a lottery or casino would be well reminded that the house always wins. —Anthony Henriques, Maharashtra

to the unique challenges of oil palm cultivation omies like India and China, and compoun-ded by growing use in biodiesel produc-tion. This combination of rising demand

The National Mission on Edible Oils - Oil Palm has

all the ingredients of a farmer-centric policy, tailored

tion. This combination of rising demand and constrained supply points to a tight-ening global market, making domestic cultivation both economically prudent and strategically necessary. India's pursuit of *atramanitharta* (self-rellance) in edible oils is rooted in a strong commitment to ecological sustainability. With concerns over deforestation linked to palm oil cultivation, India has adopted a strict policy of someting

to paim oil cultivation, India has adopted a stiet/solicy of promotivation oil paim only on non-forest and low-value agricultural professions is central to concernate about issues high wateruse and soil deg-radation. The mission man-suitable agro-climatic zones health. To build confidence, the mission India's oil palm expansion model

health. To build confidence, the mission emphasises farmerengagement through awareness campaigns, demonstration, and peer learning. This integrated, envi-ronmentally conscious approach aims to boost domestic production without com-promising long-term ecological or agri-cultural sustainability. The NMEO-OP has all the ingredients of a mbust. famere-centric policy tailored

#### Pollution norms

Apropos of "Storm over CAFE" (FE, July 8), a single CO2 benchmark penalises small, fuel-efficient cars while favouring heavier sport utility vehicles, raiting concerns about affordability and access to mobility for average households. Martif Suzuki's appeal reflects this imbalance, while rival automakers defend uniformity to protect their market dominance.

vation. Given the high perishability of fresh fruit bunches, the scheme prioritises the development of processing and logis-tics infrastructure, anchored through pubn. farmers. public-private partnerships to support farmers. Through tripartite MoUs bet-ween farmers, processors, and state gov-ernments, procurement of fresh fruit bunches from farmers is assured at trans-

bunchest<sup>7</sup>com farmers is assured at trans-parent, remunerative prices. A price gap funding mechanism has been built in to protect farmers from market volatility. India's continued dependence on global edible oil markets is neither sus-tainable norstrategically sound. With ris-ing cooking oil consumption, oil palm offers a transformative path to self-reliance, and the NMEO-OP provides a strong framework. However, uneven implementation and underuse of funds by states risk eroding farmer trust.

implementation and underuse of fundative prates risk evolution fails that the states must step up with targeted awareness camp-aigns, timely delivery of support, and con-sistent engagement with farmers. Cru-cially, India ion lopain expansion model is rooted in sustainability, and focused degraded, non-forest lands. Scaling must go hand in hand with training in inter-copping and water-use efficiency censur-ing that income growthopportunities for farmers are optimised. OI 28 slath hectares identified as suitable, only 5.5 alsh hectares identified as suitable, only 5.5 alsh hectares apotential can cut import dependence, boost tural incomes, create jobs, and spur agro-industrial growth.

Globally, countries adopt weight Globally, countries adopt weight-based standards recognising size and utility. India must adopt a similar practical differentiated approach that

practical omerentiated approach that balances environmental goals with economic realities. A practical, tiered CAFE framework is vital to ensure sustainability, innovation, and inclusive mobility for all sections of society. —Nilesh Dubey, Ahmedabad

Write to us at feletters@ex

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# on degraded.

ports oil palm expansion with financial assistance at every stage of cultivation. It boots productivity by aiding critical Inp-ture in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional support for land clearing, bio-fence in the other streewes addi-tional streewes addi-streewes addiress the pershability of the streewes addi-streewes addiress the pershability and the streewes addi-streewes addiress the pershability and the streewes addi-streewes addiress the pershability and the streewes addi-streewes addiress the streewes addiress the is rooted in sustainability. and focused ecological sustainability, economic viability, and improved farmer incomes. Oil palm stands out for one compelling reason; unit

oil per hectare than traditional oilseeds like soyabean or sunforwer, making it one of the most efficient oil crops globally. With a productive lifespan exceeding 25 global market context makes this an espe-cially opportune moment. While prices for many edihle oils remain sudduced, palm oil prices have shown a upward trend-dri-neir endergrammer and the prices for prices have shown a upward trend-dri-

prices have shown a upward trend-driven by surging demand from major econ

**•** TECH-POWERED FARMING

# WEDNESDAY, JULY 9, 2025