hronicle

Modi, Mamata swap barbs: War of words going too far

peration Sindoor was a military success which was acknowledged by the Pakistan PM too when he was speaking on ally territory in Azerbaijan. He admitted that while Pakistan was preparing for them with BrahMos missiles homing in and getting through even as far s the Rawalpindi air base, thus forcing their now-promoted field marshal

ed them with BrahMos missiles homing in and getting through even as rar as the Rawalpindi air base, thus forcing their now-promoted field marshal to plead for a ceasefire. The problem with India's views on Operation Sindoor getting more diverse with the passage of mere days after the ceasefire is everything in the country just tends to get intensely political. The airing of a diversity of views may be a feature of India's loud democracy. But nowhere does politics rage with greater passion than in the verbal exchanges between Prime Minister Narendra Modi and West Bengal chief minister Mamata Rannerjan.

this rage wing reare passion than the vertex exchanges overein runs abanction.

The atmosphere at home reeks of bitterness at a time when the country is putting so much effort into carrying the message abroad of a successful strike at religious terrorism that Pakistan sponsors while using it as an instrument of state policy. There is no denying that there seem to be two Indias — one with the all-party delegations carrying the country's message of the right to self-defence and the other squabbling in seeking the votes that feed political power.

There is no faulting Prime Minister Narendra Modi's critique of the murky Murshidade violence or his expounding what could happen to education in Faulting Prime Minister Narendra Modi's critique of the murky Murshidade violence or his expounding what could happen to education in West Bengal since corryuption has sepend into teacher that India is permanently in election mode. Such is the political rivalry that neither side cares for niceties nor the timing as the nation has just come through a crisis of confidence worth decades in handling terror coming from across the border into Jammu & Kashmir.

At a time of national salutation in having made a moral point internationally regarding how terror tears at the heart of modern civilisation and why it must be opposed, it would be ideal if Operation Sindoor were not to be politicised — for electoral gains as may be sighted in the ruling alliance's approach antionally regarding how terror tears at the heart of modern civilisation and why it must be opposed, it would be ideal if Operation Sindoor were not to poposition wilfully suppressing its gains while permeating negativity, including about the symbolism of the name chosen for the military operation. The deem type proper is the suppression of the name chosen for the military operation. The deem type properties and the properties of the military operation.

The deeply personal attacks, especially the one from Mannata regarding the PM who "is not the husband of every woman" as an answer to Mr Modi referring to sixdoor khela, are symbolic of the depths to which our netas can descend when aiming barbs in public, more often capable of maximum wounding than making the point in a civil manner. But then civility in Indian politics disappeared a long time ago with the passing of leaders of statesman-like stature. Even at a time when it is possible to asvour yet another military victory cover Pakistan, it is only the polis that seem to overwhelm the thinking in over Pakistan, it is only the polis that seem to overwhelm the thinking in only thing that ever matters in this scramble to rule India from the Centre or the states. More is the pity, for the national cause in which India unified during Operation Sindoor seems ripe to dissipate, if it hasn't already.

Heed IAF Chief's alert on delays

India's Air Chief Marshal Amar Preet Singh's remarks on the new-ending development of defence projects in India should serve as a wakeject delays are not new to India and have occurred for various reasons, his
candid comments underscore the urgency of finding a solution to this
perennial issue.

and comments underscore the urgency of finding a solution to this perennial issue.

Referring to delays in the development of the Light Combat Aircraft (LCA) and Advanced Medium Combat Aircraft (AMCA), the Indian Air Porce chief questioned why an organisation would agree to build or delivered to the company of the compa

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PAKICTAN ECONOMY INDIA: FOURTH LARGEST ECONOMY

Rohingya 'Corridor' poses a KAMAL NEED NOT threat to India's Northeast



Subhani

Pradeep C. Nair

Inowever, after UN SecreLary-General Antonio Goterres visited Bangadesis
agained greater traction.
The corridor's exact location has not been made
public, but it would be fair
to assume that it would be
astride the Naf river at
Teknaf (southesst of Cox's
Bearry to Maungalaw in the
Teknaf (southesst of Cox's
Bearry to Maungalaw in the
Teknaf (southesst of Cox's
Bearry to Maungalaw in the
The creation of such a corridor could potentially involve Bangalaesh in Myanmar's internal conflicts.
The creation of such a corridor could potentially involve Bangalaesh in Myanmar's internal conflicts.
The interim Muhammad
Yunus government readily
agreed to this proposal of
the UN. However, in Bangladesh, this decision came
political parties, academics
and security experts because it would lead to further cross-border movement of Rohingyas, thus increasing the risk of smuggling and trafficking of
drug, weapons and huresulting and trafficking of
drug, weapons and humy chief. Gen. Waker-uzZaman, has also raised
strong objections, in fact he
has clearly told Mr Yunus
not to go ahead with the
proposal. A holistic look at
the stakeholders involved
in this humaniarian corriat the stakeholders involved
in this humaniarian corriat the stakeholders are the military junta, the Arakan Amy (which is fighting the
junta) and the people of
Rakhine tistef. The junta,
though now not in control
of vast parts of Rakhine
Rakhine state are under
control of the Arakan
Army), is still holding out
at key locations of Sittve
and Kyukphyu, the former

port for the India-led Kaladam Multi-Modal Tradeidadam Multi-Modal Tradeidadam Multi-Modal Trade(KMMTPI) and the latter
being the deep sea port of the
Chinese (where China
has invested \$7.3 billion). The junta has indulged in
large-scale excesses aganist the Robinguss over
the years, and would surely
not agere to this corridor.

The junta has indulged in
large-scale excesses aganist the Robinguss over
the years, and would surely
not agere to this corridor.

Sea formed in 2009 with Chinese helpa year after the
inking of the India-led
KRMTTP in 2008, possibly
in order to disrupt the
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KRMTTP in 2008, possibly
in order to disrupt the
KRMTTP in 2008, possibly
in order to disrupt the
KRMTTP in 2008, possibly
in order to disrupt the
KRMTTP. Further, it is
still largely backed by the
Chinese And has been oplargely backed by the
Chinese Kyukphu port now
and are thus unlikely to allow
this humanitarian
corridor. Insofar as the people themselves, they include both Buddhists and
are the gatekeepers to the Chinese Kyukphu port now
and are thus unlikely to
allow this humanitarian
corridor. Insofar as the
people the population,
while Robingya Muslims,
who are the opports seed,
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constitute 22.2 per
cent of the population,
while Robingya and their milltias, which include ARSo.
to Army (its chief, Ata
Ullah, was born and
brought up in Karachil; the
ARA (Arakan Robingya
Army) and the Robingya
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Army and the Robingya
Ar

Is the corridor a ruse by the West to provide military aid to the Arakan Army at a later date, to make it pull away from Chinese influence and fight the junta? It's a question that comes to mind.

UN offer also seems to be for enabling the retabilitation of the Robingyas. How too of the Robingyas are sovereignty. Further, given the strong opposition that the Robingyas face both from the junta and the Arakan Army, it is very unlikely that they would extend the Robingyas face both from the junta and the Arakan Army, it is very unlikely that they would extend the Robingyas face both from the junta and the Robingyas face that the Robingyas face in the Rob

of drugs and Myammar-based militant groups into the Northeast. Further, a corridor like this would have long-term implica-tions of continued conflict between the junta and the stabilising the security sit-uation in Rakbine, which would further delay India's flagship KMMTTP that is now increasingly becom-ing the only alternative to the Siliguri choke, given Bangladesh's increased bostility towards India. However, and the security of the LY's appeal for a humani-tarian corridor also begs the question: Why aid only for Rakhine state? Why not the other states and regions of Myamar which are wit-nessing battles between the junta on the one hand against the Ethnic Armed People's Democratic Frout (PDF) on the other? Surely, it is for someody else's interest; in all likelihood, that of the United States. The US role in parachuting Muhammad Yunus as the interim head of Bangladesh last summer is

Muhammad Yunis as the Interim head of the Company o

APOLOGISE

Actor politician Kamal Haasan's 'Tamil-Kannada' remark has been blown out of proportion. It is surprisor proportion. It is surprising that some people even
in TN have bombarded him
and want him to apologise.
Kamal has rightly stated
that politicians have no
knowledge to talk about
language and its origin.
Historians and archaeolo. language and its origin. Historians and archaeologists have long back presented documented proof that all southern languages may have derived from Tamil, which is the world's oldest surviving language. If South Indian languages like Telugu, Kannada and Malayalam were parts of a tree, Tamil is the root". Kamal's comments should be taken in a lighter vein. The actor-politician has not committed a grave crime nor insulted Kannada. An apology is unnecessary.

M.C.VIJAY SHANKAR

LAST NAIL IN PMK COFFIN

that be committed a mistake in making that be committed a mistake in making at 35 years is the last nail in the party coffin. Through this observation, the senior Ramadoss has belittled himself in the political landscape of the country. Also, he has said that Anhumani does not he party. But it is the senior Ramadoss who lacks composure. The saying "Blood is thicker than water" recodes when ego envelopes the mind.

COMBAT VETERANS

Our military veterans and strategy planners are more knowledgashle than those criticising and commenting from the comfort of their homes about the steps alken or to be taken against terrorists and their patrons. Critics are not going to help the Government. These people can demonstrate their patroism by keeping aside their pears for some time until the Government of Natrodra Modi finds out solution to Pakistan's continued beligerence.

Muthu Srinivagen

Muthu Srinivasan



wo Bangladeshi memorial occasions last week to which I was invited as a platform panellist... Gentle reader, you may well ask, it you speak French—"pour the hell quot?" Or what the f-aintest have you got to do with

documentary about the 2024 uprising in Bangladesh and clips from another film about the subject. I was considered appropriate for the Q&A which followed. The other reason for the nuries to the other Bangladesh themed coasson was that in late 1570s and the considered the coasson was that in late 1570s agritators in the Bangladesh community. I went there as a writer and activate for a multirecial political palform called Race Today. That was in response to a plea from 12 Bangladesh i cothing-sweatshow owekers who had been cheated into believing that they had 'bought' a house which actually belonged to the Greater this house. They called Race Today for advice and sassistance when the GLC threatened to evicit them. When the eviction day arrived, we turned up to confront the GLC's squad of evictors and lawyers to whom we pointed out that the occupants, having been defrauded, still lived in the house and were, in British impo. legitimate "squatters". The GLC squad Housing Action Group (BHAG), which, with the assistance of several young Bangladesh) youths, squatted at the empty properties which the local Tower Hamlets Council and the GLC had left empty to demolish and rebuild for profit. BHAG, over the following months, squatted 600 families all over London's East End.

A consequence of our mustering this direct action was the formation of young Bangladeshis forming an army of vigilante groups to stop "Paki-bashing", the random assaults on Bengali individuals and on families on housing estates by organised right-wing gangs of white youths. In worked Paki-bashing was militantly confronted and chased off the streets. I used my experiences in the Bengali struggle to write several published fictions and a TV drama series for the BBC called King of the Ostets. The series of the BBC called King of the Ostets. The cious Bangladeshi-origin MF, Rupa Hog, after the session when we gathered to goal.

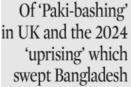
A young filmmaker called Firm Blyth interviewed the participants of BHAG and the vigilante movement and then screened the film to a packed audience and invited me to the panel discussion that followed. The other more establishment event was dedicated to celebrating be 2324 "revolution" in Bangladesh that led to the ouster of Shelikh Hasina's repressive government. The screening and discussion were held in one of the British Parliament's public rooms. On the panel with me were Shahidhil Alam, the distinguished photographer and political activits. Nowship Noor, a basiling participant and epoleospesses and historical chronicles.

The session began with a film by Bangladeshi Hindu filmmaker Deepak Kumar Goswami, His film

featured, in the main, the treatment of Hindus as a minority in Bangladesh, even though I was expecting it to chronicle, through personal testimony, the oppression of the overthrowing government and the growth and principles of the movement against it. There wasn't much of that, Instead, Goswami's documentary principally attacked the "Indian media" follow propagands and "lbes" against Bangladesh. I follow the Indian media but was unaware that this was a principal trend.

There Bollowed clips from July Women, a documentary flim featuring the women activists of the 2004 revoil. I would have penorally preferred to watch revoil. I would have penorally preferred to watch would have penorally preferred to watch when the preferred was the worker and female participation in the uprising the worker and female participation in the uprising. The testimony of Ms Noor, whose brother and associates were injured as they were attacked by Shelik Hasinia's police, was very moving. For my part, I was asked about, or at least felt obliged to tell the audience why I was there, and then, being cuted into analysis of the occasion, I, spoke about the fact that in a world in which 'democracies' are electing right-wing and populate governments, Bangladesh's popular movement is, in our times, are a secting right-wing and populate governments, Bangladesh's popular movement is, in our times, partiage the greater balancing democracie force and one that can win a decisive victory.

So, wake up America' It can be done?



Editorial



Rebuilding J&K

Civilians need physical and economic security to recover from the shelling

ammu and Kashmir bore the brunt of Pakistan's response to Operation Sindoor, and Union Home Minister Amit Shah rightly focused on both security and development during his visit to Poonch, where residential areas were hit by shelling from across the border. A comprehensive relief package is planned along-side the construction of more underground shelters for civilians. The J&K government is still in the process of assessing damages, but Poonch was by far the worst-affected district. A preliminary report submitted by a committee set up by the BJP to the Ministry of Home Affairs identified 1,500 houses – 690 in Poonch and 534 in Uri – that were damaged in the indiscriminate shelling. At least 18 civilians – 14 in Poonch alone – lost their lives. Pakistani shelling hit towns in Poonch, Baramulla, Kupwara and Rajouri, and the damage to civilian infrastructure was considerable. Mr. Shah on Friday visited the affected regions, expressed solidarity with the people, and handnu and Kashmir bore the brunt of Pa expressed solidarity with the people, and hand ed out job appointment letters to the kin of those who lost their lives. Earlier, the Leader of the Op

ed out job appointment letters to the kin of those who lost their lives. Earlier, the Leader of the Opposition, Rahul Gandhi, and representatives of the Trinamool Congress visited the victims. These border residents felt heard, their sense of fear dissipated to some extent, and their morale boosted by these visits. The Indian Army's statement on the India and Pakistan casesfire "not having an expiry date" is reassuring for the border residents. Life is limping back to normalcy with residents fetturning to their homes, many of them shattered by the shelling. The J&K government is struggling to meet the demands of the affected population. This was evident from the relief amount approved up to IL. Jakh to fully damaged houses. The affected and displaced residents described it as "insufficient" for them to return to their once-concrete and multi-storey houses. Against this backdrop, Mr. Shah's promise of a relief package is a ray of hope. Around 9,500 bunkers — 8,000 in the Jammu division and 1,500 in the Kashmir Valley — have been built by the Centre so far. However, there is a growing demand for individual bunkers in sparsely located populations in border areas of J&K, especially in the Kashmir Valley, to ensure civilians manage to shift to safer locations immediately in case of shelling by Pakistan. The Centre and the elected government in J&K should work in tandem to help border residents who are in distress.

Steep decline

Rural consumption remains poor despite the lowering of inflation

ndia's factory output performance mea-sured monthly by the Index of Industrial Production (IIP) and released by the Minis-try of Statistics and Program Implementation (MoSPI) slowed to an eight-month low of 2.7% in (MoSPI) slowed to an eight-month low of 2.7% in April, at the start of fiscal 2006. It also marked a steep decline, almost halving from last April's 5.2% growth. This correlates with the monthly gauge of the eight core sectors by the Ministry of Commerce and Industry, which posted a 0.5% growth in April, also an eight-month low. More significantly, it is a steep decline from last April's 6.9%. The eight core sectors make up about 40% of the weight of items included in the IIP. This comes on the back of a 4% growth in industrial output for the last fiscal, which was the lowest in the past four years. Of particular concern is the contraction in mining by 0.2%, the first since Aucontraction in mining by 0.2%, the first since Au gust 2024. While the absolute value of mining ex gust 2024. While the absolute value of mining ex-ports has risen in the past decade from \$25 bil-lion in FY15 to \$42 billion in FY25, its share in exports has fallen from 8.1% to 5.1%. This still con-stitutes a not-so-insignificant share in India's ov-erall goods exports at a time of great trade volatil-ity. However, both manufacturing and power production also slowed to 3.4% (4.2%) and 1.1% (10.2%), respectively, in April.

While trade and tariff-related uncertainties are

most likely to have impacted goods output, the continuing contraction in consumer non-duracontinuing contraction in consumer non-dura-bles' output for the third consecutive month sug-gests persistently low rural consumption, as es-sentials such as food make up a significant portion of consumer non-durables. This is a clear indication that despite retail inflation hitting an almost 6-year low at 3.16% in April, it has not translated into higher spending power for rural communities, where consumer non-durables have the most demand. Food prices contracted for the sixth straight month to 2.14%, which led to have the most demand. Food prices contracted for the sixth straight month to 2.14%, which led to below MSP rates for most staples at mandis. The government must focus on raising rural incomes by implementing MSPs for farm produce more systematically. This would aid in increasing rural consumption. However, a surge in capital goods output to 20.3% in April, albeit from a low base, indicates confidence in the domestic economy as investors continue with their plans to diversify exports, attempting to rely less on the U.S. With trade-related sectors expected to continue to stay volatile in the near-term, the Centre must push the private sector to increase capital expenditure volatile in the near-term, the Centre must push the private sector to increase capital expenditure at home. This will increase incomes, and aid in raising consumption demand. Export-oriented sectors must also aim to ring-fence themselves from tariff, price and supply chain shocks by en-suring a robust domestic presence, while also di-versifying outside the traditional export regions of the U.S. and the EU.

Pakistan's India war

s India reflects on the outcome of the brief military conflict with Pakistan in early May, it may be worthwhile to ponder over the current reality that even as India's cultural diversity and sweep of history may be unparalleled in a civilisational context, it remains proper to attacks from context, it remains prone to audics recon-countries in its vicinity and beyond. An incorrigible Pakistan is continually finding ways

incorrigible Pakistan is continually finding ways and means every few years to provoke a conflict, and despite being worsted in every one of these conflicts and wars, remains undeterred, seeking to 'bleed India by a thousand cuts'. The very existence of a secular democratic India appears to be anathema to Pakistan. As India progresses towards becoming a global power (it is already the fourth largest economy in the world.) Pakistan is descending into pear the world). Pakistan is descending into near anarchy. Yet this neighbour of ours, dominated by a military mindset, is contriving to find ways by a mantary munoset, is contriving to find ways and means of undermining India's progress. Peace for India, hence, depends on who rules Pakistan, which almost invariably is the military. There are no easy solutions to this problem, and India needs to prepare for war at all times.

The Pakistan of today
Today, it is fashionable to talk of the
disintegration of the world order. The deafening
silence of the world to the 'genocide' taking place
in Gaza, with innocent civilians being killed at an
alarming rate, contrasts with the din and noise –
and the numerous efforts at peace – being made
to end the Ukraine conflict. This dichotomy of
approach stems from a grim truth or reality, viz.,
that the world has different standards when it
comes to the killing of Asians and Europeans. If
there is any further evidence needed to
demonstrate that the international order is
crumbling and that 'might is again becoming
right', one has only to look at the recent conflict
provoked by Pakistan, which the West scrambled

right', one has only to look at the recent conflict provoked by Pakistan, which the West scrambled to end once they found Pakistan was the loser. A crucial 'sub-text' to how bigger nations intervene to end a conflict between smaller entities is also now becoming available. For instance, Ukraine's President Volodymyr Zelenskyy has bartered his critical mineral resources to gain U.S. support in the war against Russia. In the Pakistan context, it is now being surmised that U.S. interest in claiming to having brought peace between Pakistan and India brought peace between Pakistan and India (notwithstanding denial by the latter) stems from U.S. interest in Pakistan's store of critical U.S. interest in Pasistan's store of critical minerals, such as lithium, copper and rare earths. Also, intrinsic to this is the fact that the military in Pakistan, which is and has been, the critical player in the regional sweepstakes, is unlikely to forget the U.S. President's 'gesture' even if there is little substance to his claims.

Peace in the subcontinent is the major casualty today, and not solely because of the short (recent).

today, and not solely because of the short (recent) India-Pakistan conflict. India, and the region itself Join FREE Whatsapp Channel https://whatsapp.com/chan



M.K. Narayanan

mer Director

today, confronts a military Pakistan which has shed the cloak of democracy and is today a virtual military dictatorship. It has a titular civilian Prime Minister, Shebbaz Sharif, who is standing in for his brother (Nawaz Sheriff), who is legally constrained from holding an electoral office.

office.

More important, the government is 'in hock' to the army, and the latter after having denied Imran Khan an opportunity to contest elections, is now showing its true colours. A few weeks ago, Pakistan's current Chief of Army Staff, Gen., now Field Marshal, Asim Munit proclaimed that Pakistan is not a democracy, but a religious entity. He went on to say that in the history of humanity, there had been only two states based on the 'Kalima'. The first was the Riyasate-medina. The second, 1,300 years later, Riyasat-e-medina. The second, 1,300 years later, was Pakistan. He added that 'Pakistan is different was Pakistan. He added that 'Pakistan is differ from Hindus in every possible aspect of life – religion, custom, tradition, thoughts and ambitions' and that 'Kashmir was the jugular vein'. The rest is history – a future in which further conflicts should be anticipated.

What to expect next It might, hence, be useful to surmise what one might expect from the recent India-Pakistan conflict. It is certain that here will be a recrudescence of religious nationalism, not only recrudescence of religious nationalism, not only in Pakistan, but across parts of South and West Asia. Next., is the impact of the technological revolution — limited though the conflict might have been. The conflict has demonstrated the criticality of ensuring 'escalation dominance' in the shortest possible time. Furthermore, one should view the recent conflict as a kind of 'proxonflict' between hi-tech military suppliers on either side. Each has been more anxious than the other to know how their equipment performed other to know how their equipment performed the Rafale versus China's J-IOC, for instance – hoping to find better answers to their respective electronic signatures during future operations. Also, India and Pakistan have demonstrated

Also, India and Pakistan have demonstrated their ability to flood the heavens with inexpensiv expendable reconnaissance and strike vehicles. Above all, there is a realisation that there is more to drones' warfare than was known till date. Reams have been written about Pakistan's use of Turkish Songer drones and China's J-JOC during the recent conflict. India is said to have responded by using Kamikaze drones and the

responded by using Kamikaze drones and the like. What is evident from all this is that air defence today involves several multi-layered air defence today involves several multi-layered air defence systems. Unproven, however, is whether Pakistan could integrate a Pakistani ground radar illuminating an Indian target enabling a Chinese J-IOC fighter to launch its missile to hit its target as both China and Pakistan propaganda make out. The latter is solely in the realm of speculation — essentially by Pakistan and China — though what comes out loud and clear is the versatility of airborne early warning systems and the kind of NKH60BdDF India's progress airborne nel/0029Van2VRb6RGJOKH6oBd0

system integration in place. All this has brought a new dimension to airborne warfare. Today's 'noise' is, hence, all about air-to-air engagement, with speculation being rife as to whether Chinese-origin weapon and air defence mechanisms have the measure of India's Rafale fighters and Western equipment. To equipment manufacturers, it is the effectiveness of the 'kill

manufacturers, it is the effectiveness of the 'kill chain' that matters, or is more important, than the capabilities of specific fighters. What is, however, proven is that the Aakash Quick Reaction Surface-to-Air Missile alongside Russia's S-400 and the Barak (jointly developed with Israel) provided India with more than adequate cover. India possibly did not need to employ or demonstrate its ultimate weapon, the Brahmos (jointly developed with Russia). Pakistan clearly has no answer to it. Roth sides. Pakistan clearly has no answer to it. Both sides did, however, show an improved capability for electronic counter-counter measures to penetrate enemy jamming and evasion tactics.

Technological warfare of the future

Technological warfare of the future. The conflict, however, demonstrated in no uncertain terms that future wars will essentially be technological in nature. Technological dominance and the speed with which escalation takes place will dictate the course of future wars. Currently, India has an edge over Pakistan as far as escalation dominance is concerned, but this preed not always be the case. It is also important. need not always be the case. It is also important to remember that in a fragmented, multipolar, geopolitical environment, there will be little geopolitical environment, there will be little scope or time for imposing restraint on a party, once a major conflict begins. Arms control agreements also may have little relevance in future wars. Worse, it is already the best known secret that new nuclear warheads and cruise missiles are being designed and kept in readiness for use. The realisation needs to dawn that the nuclear threshold is narrowing rapidly.

It is germane to mention here that while India's position on land, sea, and air is more than India's position on land, sea, and air is more than adequate to deal with a Pakistan, the situation could alter in the event of a two-front war involving both China and Pakistan. In such a situation, India will need to balance the combined capabilities of Pakistan and China and this will throw up some neglected aspects such andia's lack of a dedicated satellite system and satellite-based surveillance network. It bears repetition that modern warfare increasingly depends on space-based assets to act as an early warning system and for a variety of tasks, apart from tracking and communication. This lacuna warning system and for a variety of tasks, apart from tracking and communication. This lacuma will need to be overcome in real time before the next outbreak of a major conflict, whether with Pakistan, China, or any other country, occurs. To reiterate, India cannot afford to overlook its imadequacies as far as space-based capabilities are concerned. Space is the new domain of warfare, and India must be fully prepared for this eventuality.

Don't merely enrol students, but equip them with skills

s the admission season for colleges and universities begins, institutions across India are once again promoting their programmes under banners promising knowledge, transformation, and research excellence. This growth in enrolment at the undergraduate, postgraduate, and PhD levels suggests a dynamic cacdemic landscape full of potential. Yet, beneath this expansion lies an important challenge: edgrees are proliferating faster than meaningful job opportunities.

A gap that needs attention
According to data released by the Ministry of Statistics, the unemployment rate in India tends to increase with higher education levels. This paradox reveals a critical gap between academic achievement and employability – a gap that

requires urgent attention.
This challenge is particularly acute in India's vast network of non-elite institutions in Tier 2 and vast network of non-eitie institutions in Tier 2 and tier 3 colleges, where most students pursue BA, BCom, or BSc degrees and their corresponding master's programmes. These institutions often face resource constraints and limited industry connections, operating with curricula that have not kept pace with the evolving job market. While elite colleges make headlines for placement challenges, the gradual grossion of emplecability. challenges, the gradual erosion of employability in everyday colleges often goes unnoticed. In many such institutions, instruction remains

in many such institutions, instruction remain largely theoretical, with limited emphasis on real-world skills. For example, an English literature student might study Shakespearean tragedy yet miss out on learning practical skills such as writing professional emails. Similarly, a economics graduate may understand complex Join FREE Telegram Channel https://t.me/+iUYKg0AFHBAwMGQ1



Pakistan.

dominated by a military mindset, is contriving to find ways and means of undermining

Hiremath

Teaches Econe IIT Kharagpur. Views are personal

Viewing education as a social contract that guarantees a meaningful connection between

> learning and livelihood is

theories but struggle with everyday tools such as Excel. This disconnect means millions of educated young people find it difficult to translate educated young people find it uniquest their degrees into career opportunities. This situation stems partly from a deeply entrenched academic culture that values

entrenched academic culture that values scholarship and abstraction over practical application. Within many academic circles – ever prestigious ones – higher education is often celebrated as an end in itself, while immediate employment is sometimes subtly undervalued. Postgraduate degrees and PhDs are frequently pursued not just for intellectual fulfilment but as a refuge from the job market, creating a cycle where many graduates end up teaching in the very colleges that perpetuate the same system. It is important to recognise that successive governments have acknowledged this issue. Initiatives such as Skill India, Start-Up India, and

Initiatives such as Skill India, Start-Up India, and Initiatives such as Skill India, Start-Up India, an the National Education Policy have pushed for skill development, vocational training, and entrepreneurship. However, the transformation remains incomplete. Many undergraduate and postgraduate programmes continue to emphasi rote learning over practical skills. While new courses in AI or entrepreneurship are being introduced, they often lack depth, and integration into the broader curriculum.

A broader societal challenge Countries such as China and Japan have Countries such as China and japan nave successfully aligned education with economic strategies by elevating technical and vocational education to a central role in workforce development. In India, vocational training is still often perceived as a fallback option, both within academia and society. This stigma limits the

appeal and effectiveness of skill-based education, despite its vital role in economic empowerment. This contradiction highlights a broader societal challenge: degrees are highly valued as symbols of upward mobility, but they increasingly fail to guarantee it. This is not a call to abandon liberal education or abstract learning – they remain essential for critical thinking and creativity. essential for critical thinking and creativity.

However, education must also provide tangible economic benefits. Degrees should offer pathways to agency and dignity, especially for students from smaller towns and under-resourced institutions.

A way forward lies in integrating practical skill modules – communication, digital literacy, budgeting, data analysis, bosnitality, talloring.

budgeting, data analysis, hospitality, tailoring, and health services – into general degree programmes as core elements, not optional extras. Doctoral education should be diversified extras. Doctoral education should be diversified to prepare candidates for policy, analytics, consulting, development, and industry roles, not solely academia. Research remains vital, but it must be pursued by those inclined towards it. Finally, the widespread aspiration for government jobs reflects the limited opportunities graduates currently perceive. While these roles remain important, expanding private

opportunities grautates currently perceive. Whese roles remain important, expanding private sector and entrepreneurial pathways through improved employability will offer youth a broader range of options. Enhancing skills and opportunities can reduce the over-dependence opportunities can reduce the over-dependence on competitive exams. India's growing economy demands an education system that not just enrols students, but equips students with skills. Viewing education as a social contract that guarantees a meaningful connection between learning and livelihood is essential.

U.S. President Donald Trump's sweeping tariffs had left most countries of the world, especially the smaller ones, shaken. The ruling by the federal court comes as a major relief to them now ("Major setback for Trump as U.S. court blocks traiff," May 30, II blocks tariffs," May 30), It shows that no one, not even the U.S. President, is

hype in the age of social media. Whether it is about or a company's performance, the media goes overboard in its

coverage, often to the point of propagating falsehoods. There is no need to cover ministers posing for selfies against the backdrop of infrastructure projects, or press conferences about projects that are in the nascent stare instead we nascent stage. Instead, we need to ask where taxpayers' money is going. Sharada Sivaram

as a former diplomat, writer, and an intellectual writer, and an intellectual with distinct opinions has established him as an independent thinker. His selection as the leader of one of the seven all-party diplomatic delegations on Operation Sindon; is thus Operation Sindoor is thus justified. His global stature justified. His global stature is hardly matched by any other leader from the Congress. Mr. Tharoor is a strong advocate of India's soft power on the global

No love lost

The Prime Minister had recently said that the Union and State governments must work together as a team. How can he expect States to cooperate with the

read the public mood on Operation Sindoor and treat

Operation Sindoor and treat Mr. Tharoor as an asset ("No let-up in war of words between Congress leaders and Tharoor", May 30). Nagarajamani M.V., Hyderabad

Union government if he keeps berating them? ("Modi, Mamata spar over riots, school recruitment exam", May 30) V. Padmanabhan Bengaluru



LETTERS TO THE EDITOR

The article, "A hype comes crashing down" (May 30) exposes the truth behind massive infrastructure projects. While corruption and substandard construction practices have always been prevalent, we have the added problem of the government's initiative

stage. The Congress should



na's nine-year-old son was taken away from her as 'collateral' for a debt and was later found dead. c.s. r Join FREE Whatsapp Channel https://whatsapp.com/channel/0029Van2VRb6RGJOKH6oBd0l

A nine-year-old bonded labourer

Last week, a duck farmer was arrested on charges of keeping a child from Andhra Pradesh as 'collateral' for a loan and then killing him in Tamil Nadu. Though bonded labour has long been banned by law, it continues to be practised, say activists. Nellore Sravani reports on how the boy's mother, Ankamma, a woman from a tribal community, tried in vain to bring her child back home

accepted a

₹10.000 from

a creditor. At the time, we

had no work no food, and no access to drinking water, So, I

took the money

KOTTAIAH

wo years ago, Mannepalli Ankamma, a woman from a tribal community in Andhra Pradesh, who does not know he rage, decided to work for N. Muthu, a 60-year-old duck farmer. He promised her a salary of ₹24,000 a month for herding cows and helping him run a sweet shop in Satyawedu, a town in the Tirupati district of Andhra Pradesh.

town in the Tirupati district of Andhra Pradesh. Ankamma took an advance of Yai, OOO from him. When she was unable to repay the amount, Muthu took away her youngest son, M. Venkasch, as 'collateral'. He also allegedly inflated the amount she owed him to ₹42,000.

On April 9, Ankamma spoke to Venkatesh over the phone. The nine-year-old boy told her that he was busy tending to Muthu's ducks in Kancheepuram district in Tamil Nadu. Ankamma lives in Thurakapalle village in Duttaluru mandal of Nelson district in Andhra Pradesh, where she works in her current employer Siva Reddy's lemon orchard. She assured her child that she would be there in two days with ₹42,000 of cash in hand.

chard. She assured ner chind that she would be there in two days with ¥12,000 of cash in hand. She promised that he would be home soon. Before ending the call, Ankamma asked Ven-katesh what he had eaten for lunch. Curd-rice, he said, an improvement over the previous day's meal of rice mixed with water. That was the last time Ankamma spoke to him.

A week later, clutching wads of cash, Ankamma travelled to Satyavedu, about 270 kilometres from her village. But Muthu refused the money. "He used casteist slurs against me," she recalls. "He also told me that my son had run away with his phone and some cash." Dejected, Ankamma returned home. When a month passed and there was still no word from Venkatesh, Reddy helped her file a First Information Report (FIR) at the Satyavedu police station on May 19.

The police began their investigation. On being A week later, clutching wads of cash, Ankamma

The police began their investigation. On being questioned, Muthu told them that Venkatesh had died of jaundice on April 12 at a private hospital at Pudupalayam in Tiruyannamalai district of Tamil Nadu. He confessed that he had buried the boy ear the Palar river.

near the Palar river.

The police found Venkatesh's decomposed body and informed Ankamma. "I knew it was him. He was wearing a vest and shorts. I knew it was my boy though he had become unrecognisable," says Ankamma, her cheeks wet with tears.

While the medical officer from the Chengalpattu Government Medical College declined to share the post-mortem grout. the Puttur police

pattu Government Medical College declined to share the post-mortem report, the Puttur police quoted the report and said that the stated cause of death was "blunt force injury to the head by (a) heavy weapon". The injuries were "sufficient to cause death in ordinary course of nature". Af first, Muthu, his wife, and son were arrested under the provisions of the Bonded Labour Sys-tem (Abolition) Act, 1976; the Child Labour (Pro-hibition and Regulation) Act, 1986; the Juvenile Justice (Care and Protection of Children) Act, 2016; and the Scheduled Castes and the Sche-duled Tribes (Prevention of Arrocities) Act, 1989. On May 24, Deputy Superintendent of Police

On May 24, Deputy Superintendent of Police G. Ravi Kumar, who probed the case, said Section 103 (1) (murder) under the Bharatiya Nyaya Sanhita. 2023, was also added to the FIR.

Bonded labour is a system where creditors force debtors to repay debts through labour. The Act prohibits any person from making advances

under, or in pursuance of, the bonded labour system. It also prohibits compelling a person to render bonded or forced labour. However, the practice continues till date, say activists. It was my

A debt that cost a son Sitting on a flat rock outside Reddy's house on the outskirts of Thurakapalle village, Ankamma cries softly. Thurakapalle is 8 km from Duttaluru town. A narrow muddy pawement leads to the vil-lage. The silence of the surroundings is broken

lage. The silence of the surroundings is broken by the crowing of roosters. Reddy's house stands in the midst of a vast ex-panse of lemon orchards. Ankamma and her husband Prakash get paid 15,000 a month for taking care of Reddy's 12-acre orchard, tending to 10 buffaloes, and doing other odd jobs for him. Ankamma and Prakash do not have a house

"This is home," she says, pointing to a small hut-like structure, perched precariously on four logs. The logs are covered on top by a tarpaulin sheet.

The logs are covered on top by a tarpaulin sheet. There is just enough space for them to sleep. When Reddy is around, Prakash and Ankamma sit on the ground. "They are Reddulu (Reddys). They are 'big' people,' Ankamma says with a reverential tone. She believes that what happened was all her fault. "We will not leave Siva Reddy until our last breath. We had left him to work for Muthu and that is why this happened to the strong or on, we will be local to bit."

us. From now on, we will be loyal to him."
Two years ago, Ankamma and Prakash went to work for Muthu after Ankamma's mother told to work for Muthu after Ankamma's mother told her that he map pay more. Taking an advance of ₹15,000 from Muthu, they began taking his ducks for grazing. Though he promised them a salary of ₹24,000 a month, Muthu did not give them anything more than the advance amount. The couple slept in the fields under the sky. They often stayed awake at night, fearing snakes and scorpions. They moved from place to place every week, foraging for feed. They offered to re-way the debt in instalments, but Muthu refused.

pay the debt in instalments, but Muthu refused.

Ankamma has three children from her pre-vious marriage – Chenchu Krishna (15), Ravu

Lakshmamma (12), and Venkatesh. When her first husband died last year, she and Prakash left for Guduru, near Tirupati district, for his final rites. When they did not return, an enraged Muthu went in search of them. He took Venka-

Muthu went in search of them. He took Venka-tesh away, saying the boy was 'collateral'.

"Everyone says we will get some cash (com-pensation)," says Ankamma. "But we will not de-mand anything except justice for my son."

The Central Sector Scheme for Rehabilitation of Bonded Labourer - 2021 states that immediate financial assistance of up to ₹30,000 is guaran-teed to individuals rescued from bonded labour. Once the accused is convicted, the sid can so up. Once the accused is convicted, the aid can go up to ₹3 lakh, depending on the severity of the case.

Ravi Kumar, the administrative officer at the Revenue Divisional Officer's (RDO) office in Sul Revenue Divisional Officer's (RDO) office in Sul-lurpeta, says the Trupati administration is consi-dering providing a housing site and compensa-tion to the family. Satyavedu falls under the purview of the Sullurpeta RDO. Activists say the administration should also is-sue a 'release certificate' to Ankamma's family. 'Release certificates can be issued only to those in bonded labour. Technically, only the boy was a bonded laboure. Since he is dead, the family is

bonded labourer. Since he is dead, the family is not eligible for the certificate," Kumar explains.

'Poor, unlettered, and fearful'

Poor, unlettered, and fearful
Andhra Pradesh is both a source and a destination State for bonded labour. "The problem is not
as prevalent as it used to be, but many cases do
not come to light these days. In addition to migrant labourers from Odisha, Madhya Pradesh,
West Bengal, and Chhattisgarh, the most marginalised locals fall prey to the system," says Raavi
Sunil Kumar, convenor of the Vetti Vimochana
Coalition, a group of NGOs working on bonded lalow issues. According to data compuled by the bour issues. According to data compiled by the group, 402 people have been rescued from bond-ed labour in the State from January 2023 to date. Most of them, including Ankamma, belong to the

ed tabour in the State from january 2023 to date. Most of them, including Ankamma, belong to the Yanadi community.

A report from the National Commission for Denotified, Nomadic and Semi-Nomadic Tribes, published in 2008, says the Yanadis are one of the 59 Denotified Tribes and 60 Nomadic Tribes of Andhra Pradesh. As per the 2011 Census, there were more than 5 lakh Yanadis in the composite State of Andhra Pradesh and Telangama.

Noorbasha Babavali, a research assistant at the Centre for Study of Social Inclusion at Andhra University in Visakhapatnam, says the Yanadis are extremely poor. Only 35.35% of them are lettered. "They have been exploited as they don't know about the legal system. Their fear of society keeps them away from the mainstream. They don't own any assest and stay on the canal bunds and in hilly areas." Ankamma says she did not know that vetti chakiri (bonded labour) is illegal.

"Many Yanadis do not open up to strangers even if they are offered help," says Ch. Venktets-

even if they are offered help," says Ch. Venkates warlu, a Yanadi leader from Alluru, a village near Ongole in Prakasam district. "Unlike Ankamma,



others do not share their troubles. They fear be-

others do not share their troubles. They fear being beaten up by their employers."

He recalls another incident in which two
bonded labourers died of electrocution while
working in a field in Palnadu district. "Though
this happened a few months ago, the labourers'
families still work as bonded labourers," he says.

In addition to migrant labourers from Odisha, Madhya Pradesh, West Bengal, and Chhattisgarh, the most marginalised locals

fall prey to the system RAAVI SUNIL KUMAR

Kotalah's escape
Katti Kotalah, 56, who also belongs to the Yanadi
community, escaped the clutches of his employer at Chilakaluripeta town.
Kotalah lives in a Yanadi colony at Alluru, a village near the Kothapatnam beach in Prakasam
district. About 400 Yanadis live in the colony. At
least 10 members live in one hut.
Like Ankamma, Kotalah blames himself for
what happened. "It was my fault that I accepted a
loan of 10,000 from a creditor in Chilakaluripeta in Palnadu district. At the time, we had no ta in Palnadu district. At the time, we had no work, no food, and no access to drinking water. So, I took the money," he says.

To repay that amount, his family of seven, in-uding three children, had to work as bonded lacluding three children, had to work as bonded la-bourers for around 20 years. "We set out to work when my son's three children were toddlers. Now they are between 16 and 20," he says. By the time of their release last year, that debt of ₹1,500 had risen to ₹15 lakh. The family was sold more than thrice, and worked as bonded labourers un-der different employees. say Ketaish

der different employers, says Kotaiah. He says their job was to cut Subabul logs, used He says their job was to cut Subabul logs, used primarily in the pulp and paper industry. He and his wife cut two tonnes of logs every day. "In a week, if we cut H tonnes, we would get \(\text{L}, 500, \) he says. As per current rates, a worker is sup-posed to get around \(\text{SOO} \) for cutting one tonne. "These jobs were always fine in the first five months. Then, our employers would not give us wages daily. They would give us just \(\text{L}, 000 \) a week. We had to work even when we fell sick. They restricted our movements," he says. Kotaiah says a policeman asked him to leave

Kotaiah says a policeman asked him to leave the employer during the pandemic. "But I told him that I owed my employer ₹2 lakh." he says. Kotaiah sold his house, received as part of a go-vernment scheme, for ₹1 lakh to clear the debt. It was only when Kotaiah's friend died that he

It was only when Kotaiah's friend died that he decided to leave. "We told our employer that we have to vote in the election (June 2024). He let us go. We never went back, despite warnings." This year, too, the employer created a ruckus in Alluru demanding that they all come back, he recalls. District officials of Prakasam intervened and gave the family protection and release certificates.

Venkateswarlu says that while the government + hands out release certificates to survivors, the

Venkateswarlu says that while the government hands out release certificates to survivors, the rehabilitation takes place so late in some cases that a few people, who find themselves without land and work after their release from bonded labour, go back to their old employers. Today, Kotaiah lives in a spacious hut with a sofa, cot, and cooler. He says civil society members got him these necessities. Kotaiah sells fish for a living, "Some days, I get 7200 and some days I make 7400. Today I got only 1000. But at least no one is torturing us," he says. least no one is torturing us," he says.

No action plan in place

"Apart from duck-rearing units, bonded labour cases are reported from areas where Subabul is rown extensively," says Ramesh, who belongs to ne Rural Organisation for Poverty Eradication

the Rural Organisation for Poverty Eradication Services, a registered NGO. In duck-rearing units, children are mostly cho-sen as labourers. "One has to be agile and quick to stop the ducks from escaping. Duck farmers, mostly Yerukulas (another Scheduled Tribe com-munity), hire Yanadis to work for them. The con-ditions, are barth with no electricity and the ditions are harsh, with no electricity and no proper food," says Ramesh.

proper food," says Ramesh.
In his report 'Bonded Labour in India: Its Incidence and Pattern', former Jawaharlal Nehru University professor Ravi S. Srivastava says that the Supreme Court directed all the States to collect information on the prevalence of bonded labour in India. The survey was held in 1996. No cases were identified in Andhra Pradesh. However, the government subsequently identified and released 37,988 bonded labourers till 2004.
"Since then, no systematic survey has been

"Since then, no systematic survey has been carried out. Bonded labour persists both in the agricultural and non-agricultural sector, alth-ough vestiges of hereditary bondage only exist in

ough vestiges of hereditary bondage only exist in traditional sectors," he says.

Of the 402 people who have been rescued in the past two years by the Vetti Vimochana Coalition, members say FIRs have been booked only in seven cases. "There is no Standard Operating Procedure or State action plan for the identification, rescue and rehabilitation of bonded labourers in Andhra Pradesh. On the other hand, States such as Tamil Nadu and Delhi have a robust system in place," explains Kumar.

While the Bonded Labour Act provides for punishment for up to three years, there is no data

While the Bonded Labour Act provides for punishment for up to three years, there is no data on how many people have been punished. The law mandates a district-level vigilance and moni-toring committee to be in place. "This was formed in Prakasam only last year," Kunnar says Officials of the Revenue, Tribal Welfare, Social Welfare, and Labour Departments say they are not sure which of them is responsible for enforc-ing the Act.
"It is important to identify bonded labour as

It is important to identify bonded labour as an organised crime," says Venkateswarlu. "The government should have a nodal department to deal with pre- and post-rescue operations. It should also have a toll-free number for people in distress. If there had been one. Ankan not have lost her son."



Katti Kotaiah, 56, who also belongs to the Yanadi comm

ranadi community, escaped the clutches of his employer at Chilakaluripeta town. Kotaiah and his nd on fishing for their livelihood these days. מא שמיר



Stone crushers drive nilgai into fields, damaging crops

- Stone-crusher operations and mining activities have disturbed the nilgai habitat in Palamu district of Jharkhand.
- This has led to the nilgal venturing into agricultural fields for food and water and damaging crops which in turn leads to farmer distress and a growing cycle of debt and migration in affected villages.
- Weak enforcement of mining regulations, insufficient buffer zones, and under resourced forest guards have allowed legal and ill egal crushers to worsen habitat degradation and escalate wildlife incursions

water. Pirst, I cultivated paddy, but I was completely valued. Then I planted maize. Again, it was completely valued. Then I planted maize. Again, it was completely destroyed. And when the rable season arrived, and I sowed wheat, not a single grain was spared by the nilgai, says the farmer from Murumdag village in Chhatarpur block, Palamu district of Jharkhand.

Ansari is not alone. In this arid patch of Palamu, where water is scarce and the soil unforgiving.—farmers wage a nightly vigil over their fields. For two and a half months, they lie awake, patrolling the wheat under the moonlight, yet any momentary lapse, even the blink of an eye, "as one farmer puts it, is enough to miss the speedy descent of the nilgai (Boselaphra tragocamelus) that strips the crop bare. Protected under Schedule III of the Wildlife Protection Act 1972, these animals move with impanity.

Mahlooz Alam, another resident of Murumdag, describes their makeshift defence mechanisms, 'I would take four dogs into the fields and the them at the foot of my charpoys [rope cots] so that if any nilgai comes, the dogs would bark, and it would wake me." Despite such precautions, Alam lost his entire harvest this year to destruction by the nilgai, sustaining a loss of 1 lakh.

Just ten years ago, such devastation was unheard of. 'Back then, the land yielded so much lentil that after saving enough for our own needs, we used to sell five quintals,' Alam recalls. The turning point came with the onset of stone-crusher mining in the area, the village residents complain. As heavy machinery tore through the earth, it disrupted the animals' natural habitat and drove them onto farmland.

For farmers like Ansari and Alam, the toll is more than financial; it is a loss of security and dignity. 'How long can we guard our fields?' sake Alam. "If I stay awake all night, I must sleep during the day — and then the nilgai strike,' referring to the extent of the problem where they are now concerned about nilgai attacking their fields at all times of the day.

referring to the extent of the problem where they are now concerned about nilgai attacking their fields at all times of the day.

Both the farmers have borrowed money from relatives to meet their farming expenses, and they are now trapped in a cycle of debt. With their farms being run over by the nilgai, they have lost any hope of repayment. With mounting debts and diminishing yields, the farmers face an uncertain future. "Forget about the next generation; from this year, I will not do farming," says Alam in anger.

Alam and Anasari are among the last handful of farmers in their village who are still farming. "The rest have either left farming and migrated to work as labourers or are doing some other work," explains Anasari.

But these individual losses are part of a much larger trend. According to the latest data obtained by Mongabay India from Jarkhandr's District Forest Department, since 2000, when the state of Jharkhand was formed, Palamu district has recorded 4.78? human-animal conflict incidents, with -38.9 million paid in compensation so far. Of these, 56% were crop damage cases — destroying over 300 hectares of farmland — while 23 involved livestock losses and 54 were incidents of house damage. So far, these conflicts have claimed to lives and nijured 22 people.

In case of death due to a nilgai attack, there is a provision for compensation or anges from - 10,823 per hectare to a maximum of -21,666. However, neither Alam nor Ansari was aware of this compensation.

Stone mining fuelling conflict "There are several reasons for the increasing human-



animal conflict: population growth, infrastructure development, and mining activities, "says Sayam Kumar, Divisional Forest Officer (DFO), Medininagar, the administrative headquarters of Palamu district.

"Population growth and infrastructure development are purely push factors, but mining acts as both a push and a pull factor," he adds. He means that mining not only destroys ecosystems and pushes wildlife out but also draws human settlements and activities deeper into forest areas, increasing the likelihood of conflict.

The Medininagar Forest Division, which covers all seven forest ranges of Palamu district — Chaippur, Chhatarpur East, Chhatarpur West, Kundri, Manatu, Mohammad Ganj and Patan—apans over 154,000 hectares. Whe have a large, notified forest area, but the quality, density and canopy cover of the forest land itself are not very good, "says Kumar. Of the seven forest ranges in Palamu, only Manatu and Kundri still have healthy tree cover." In those two ranges, human-animal conflict is very low," Kumar explains. 'But in the other ranges, there are so many stone crushers.' Where crushers and mines break up the forest, wildlife moves closer to villages, looking for water and grazing land.

"For tree regeneration, you need water and good soil. You do not want pollution." When dust from mines settles on leaves and soil, young shoots cannot grow. The hard, polluted ground cannot hold water, and seeds fall to sprout. The mining industry brings more than dust. "Habitat fragmentation is taking place," says Kumar. The water table is dropping, so forest productivity is going down. Natural ponds and streams are drying up. Even the nilgai cannot find water. "With fewer rainy days and polluted soils, forests lose their natural balance. Plants die, animals wander into farmland, and conflict riese.

dectine
To assess the impact of mining and crusher operations
on local biodiversity, the Medininagar Forest Division has
launched a pilot study at the beginning of 2025 at sites with
the highest concentration of extractive activity — Hakdag,
Murumdag, Bachkoma, Charai, and others in Palamu dis-

trict. Under the chairmanship of the DFO, a dedicated team rguided in part by Indian Forest Service (IFS) probationer Navaneeth B.R.— is conducting a preliminary evaluation using Forest Survey of India reports, recent satellite imagery, and on-the-ground observations.

The initial findings reveal that mining and crusher operations have had clear negative effects on flora, fauna, and water bodies — damage that is already exacerbating human-wildlife conflict in the region, "says Navaneeth B.R. As part of this preliminary investigation, a comparative study is being carried out between villages located in mining zones and those outside them. Initial observations indicate that areas with rampant lilegal mining have experienced greater biodiversity loss, reduced water bodies, and increased human-animal conflict. In contrast, villages with out illegal mining have shown improvements in biodiversity, an increase in water bodies, and a decline in human-animal conflict.

conflict.

Mongabay India also visited three villages where the study is being conducted, Murumdag, Cherai, and Bachkoma and documented the same patterns of habitat degradation and biodiversity loss.

As one crossed the rural roads of Chattarpur block, clouds of dust, the distant roar of crushers, and convoys of laden lorries made it impossible to ignore the scale of disturbance to both wildlife and local communities.

Current mining laws aren't strict enough.

Kumar says current mining laws aren't strict enough.

Companies only need to stay 250 metres from the forest
edge—too small a distance since dust still drifts in and stops
young trees from growing. He argues the buffer should be at
least one kilometre.

The law also calls for a green belt around each mine and
sprinklers to control dust. In Palamu, though, most mines
and crushers ignore these rules: they remove green belts,
skip dust systems, and over-pump groundwater, says
Satyam Kumar. Without strong oversight, forests bear the
full brunt of mining.

full brunt of mining.

"And with only a 250-metre buffer, the forest remains under constant pressure from illegal mining," he adds. The

impact is visible. According to Forest Survey of India (FSI) data, between 2013 and 2021, Palamu's water bodies shrank from 6,992.1 ha to 4,985.54 ha—a decline of 1,943.67 ha (about 28.1%). Over the same decade, very dense forest cover fell from 5,369.35 ha to 5,149.01 ha, a loss of 220.34 ha (about 4.7%).

a decame or 1,943-07 na (4,905-5,41 na - a decame or 1,943-07 na (about 2.81/6). Over the same decade, very dense forest cover fell from 5,369-35 ha to 5,149.01 ha, a loss of 220.34 ha (about 4.31/6). When asked about the decline in very dense forest Harsha Kumar — a GIS expert with the Palamu Forest Division — points to deeper structural issues. It's not just about dense forest — there's hardy any regeneration happening, he says. "Let's say in 2011, there was open forest, and plantation work was underway. The division covers 1,688 sq km, but how much can we realistically plant? Even if we manage one sq km per year, in ten years, that's only; to sq km added through plantations. Meanwhile, mining can destroy 25 sq km in the same period. So even if we gain ten square km through plantations. Meanwhile, mining can destroy 25 sq km in the same period. So even if we gain ten square km through plantations. Meanwhile, mining. "Forest guards are also ill-equipped to deal with illegal mining. "Each forest guard is responsible for nearly 30 sq km of forest territory, but it sin't one contiguous block — 2 sq km here, 4 sq km there, 8 sq km elsewhere... that's how fragmented it is,'s says Kumar.

Most guards are unarmed and poorly equipped, leaving them vulnerable to periodic attacks by the mining mafia. In one recent incident, five forest guard Ashatapru Block Police Station on March 23, 2025.

When contacted, forest guard Ashatapru Block Police Station on March 23, 2025.

When contacted, forest guard Ashatapru Block Police Station on March 23, 2025.

When contacted, forest guard Ashatosh Tiwari explained, "All of us live in fear of the mafia — none of our attackers have been arrested. We have no weapons, so when we're beaten, there's no justice."

Palamu currently has over 900 legally registered stone-crusher units, according to the Jharshand Department of Mines and Geology.

But those official numbers may only be the tip of the ice-berg, Village residents and Satyam Kumar both estimate that unlicensed — or outright Illeg

A way forward

To combat man-animal conflict, we're zoning the entire
Medininagar Forest Division into three distinct areas. First,
zones that are comparatively richer in biodiversity and
already have water sources will be developed further to create even better habitats, 'says Kumar.

Second, in the scrub and open-forest zones, we will carry
out massive plantations of native species under the
Compensatory Afforestation Fund Management and
Planning Authority (CAMPA) and Green Credit Scheme,
alongside grading operations and the creation of new water
bodies.

Third, for the completely areas of the control of the comparation of the control of t

abungano shades—
Third, for the completely rocky areas, we will consult expert institutions — such as the Indian Council of Forestry Research and Education (ICFRE) and the Institute of Forest Productivity in Ranchi, as well as other specialised bodies — to advise us on the best grading techniques."

"Even if the government gives us nothing more," Ansari sighed, "just enough mesh fencing per acre — and we'd stand a chance."

SC diktat will have little bearing on other courts

FIRST the spine-chilling facts about the state-of-affairs in India vis-à-vis the judicial delivery system. A startling reality is that presently there are over five crore cases pending disposal across all courts in the country. Even more bizarre is that many have been 'pending' for decades together. It is mindboggling to think that the ball applications pending in High Courts are approximately better 1.25 and 1.3 lakh, which is a substantial increase considering that it howered around 60, 000 to 65,000 cases before 2020. There has been a considerable increase in the the l'ethargic' legal delivery system in the country, which, many opine, remains the bane. This applies to all types of bail, including regular, anticipatory, default and interm bail. Lest one forgets, the Supreme Court has established clear guidelines for the expeditious disposal of bail applications, recognising the importance of personal liberty under Article 21 of the Constitution. As per its ruling, regular bail applications should be resolved within two weeks, and anticipatory bail applications within six weeks, unless situations dictate otherwise. a considerable increase in the bail appeals filed annually, which stands around 4.3 lakh today as against the above 3.4 lakh a few years back. Given this precarious situation, many take potshots at

We can prevent many people with disability

dying from cancer

However, despite such constitu tional mandates and rulings by the apex court, there has been no relief for the people given that 'speedy disposal' seems like a term that is yet to see the light of the day, as regards Indian courts, where delays are becoming increasingly common. Of course, the legal fracturity has its own points of view. While on the one side there has been a steady increase in bail appeals across High Courts with each passing year, a dearth of judges and other judicial staff, on the other hand, are unable to handle the overload of pending cases as regards hearing and disposing of cases. In some instances, the pending bail applications are leading to prolonged detention of the applicants, which reflects poorly on the system. The general presumption is that such inordinate clays in disposing bail applicadelays in disposing bail applica-tions could eventually lead to a

efficiency could take a backseat. This being the situation on the ground, one wonders if the Supreme Court's latest 'dikata' will have any bearing on the functioning of other courts. This is not the first time that High Courts have been given guidelines as regards handling bail applications. The earlier such 'firm' directions by the apex court have had little to zero impact as the figure of pending bail applications keeps mounting. Against this backdrop, one wonders the effect of the Supreme Court's reiteration that bail matters

Court's reiteration that bail matters should not be delayed even by a day "We have time and again empha-sised the importance of the liberty of citizens. There should not be a single day's delay in deciding lib-erty of citizens in bail matters," said a bench of Chief Justice of India Bhushan R Gavai and Justice AG Masih, while hearing the bail plea of one Vedpal Singh Tanwar in a money Jaundering case. In the Srikant Upadhyay v State of Bihar (2024) case, Justice Ravikumar, heading a Division Bench, ruled that while bail is the general principle in criminal cases, this does not extend to anticipatory bail, which needs an exceptional power. It was likewise regarding the Satendra Kumar Antil v. CBI (2022) case.

Although all courts have been asked to follow the Supreme Court directions and expeditiously dispose of bail applications, the common man, caught in the 'justice delayed is justice denied' syn-

Congress in tatters, India in the ascendant: The story Modi wrote



allocated to get genuine informed consent ensuring needs to be tailored to an individual person, as -everyone's needs are different.

YI YANG, GEORGE DISNEY AND KIRSTEN DEANE

CANCER

PEOPLE with disabil-Pity are missing out on screening programmes that could help detect cancer early, and after diagnosis, are less likely to survive, our study shows. Overall, this means people with disability are more likely to die from cancer than people without disability.

We draw together evi-dence showing the strik-ing inequity at the heart of dence snowing the striking inequity at the heart of
current approaches to controlling cancer. But there
are ways to improve access
to the types of screening
programmes and cancer
services many people without disability use routinely.
What we did and what we
found We reviewed evidence from 73 studies from
around the world. These
studies compared cancer
outcomes in people with
disability to those without.
Let's start with cancer
screening, one way to prevent deaths from cancer.
Screening picks up early
signs of cancer or can prevent deaths from cancer.
Screening picks up early
signs of cancer or can prevent deaths from cancer.
Screening picks up detection usually means more
treatment options and
binber chouse of a need to

tion usually means more treatment options and higher chances of a good outcome. However, our review found people with disabilities are missing out on these life-saving screening programmes all around the world, including for breast, cervical and bowel cancer.

our review showed these cancers are more likely to be diagnosed at an advanced stage in people with disability. Once diagnosed, people with disabilities are still at a disadvantage.

We found lower survival

still at a disadvantage.
We found lower survival
rates than cancer patients
without disability. This
could be because of delayed
diagnosis and inaccessible
treatment, and we'd need
further research to be sure.
But we do have relevant evidence from some studies. A
UK study of cancer deaths
in people with intellectual
disability found more than
a third had their cancer diagnosed after going to the
emergency department.
Almost half of the cancers
in the study were already
at an advanced stage when
diagnosed. Another review
of global evidence found
cancer patients with disability receive poorer quality
cancer care. This included
delays in treatment, being
undertreated or having
undertreated or having
undertreated or having

ment. People with disability also had less access to in-hospital services and pain medication.

From diagnosis to treatment, global evidence shows people with disability are being excluded from health services that many people without disability routinely access and benefit from. The situation is no different in Australia and it is costing lives. In previous work, we found cancer is a leading cause of earlier is a leading cause of earlier deaths among Australians with disability. It's the cause of about 20 per cent of the extra deaths we see in peo-ple with disability com-pared to people without.

pared to people without.

Why is this happening?

We clearly need to do more
to improve health care for
people with disability. But
we also need to act in other
areas to address underlying issues. People with
disability are more likely
to be poor and live in disadvantaged circumstances
than the rest of the Australian population, which may
put them at higher risk of
cancer. Many factors that
cause cancer – for examples, smoking, unaffordable
healthy food, and drinking
high levels of alcohol – disproportionately impact healthy hook, and drinking high levels of alcohol – dis-proportionately impact disadvantaged groups, in-cluding people with disability. Many people with disability. Many people with disability live with addi-tional health conditions, which can lead to a lack of attention to routine issues. This can result in cancer screening and routine care becoming less of a priority. Buildings where services are provided and medical diagnostic equip-ment is located are not always accessible, with lit-tle support to help people to help people with disability. The health system itself can be inaccessible, with lit-tle support to help people

which India struck deep into hostile territory—neutral-ising terror infrastructure and humiliating an enemy embodened by nuclear bra-vado—Congress chose to scoff and smear. Their ques-tions were not those of a loy-al opposition but of a party marinated in pettiness: Why hasn't PoK been taken back yet? How many aircraft did we lose? These aren't queries rooted in strategy or state-craft—they're the desperate or state-craft—they're the desperate or state-craft—they're the desperate or staterooted in strategy or state-craft—they're the desperate gasps of a party sinking un-der the weight of its own irgasjs of a party siming under the weight of its own irrelevance.

Rahul Gandhi's crewflailing in their frustration—ignored clarifications from the Prime Minister, the Director General of Military Operations, the service chiefs, and Esternal Affairs Minister Dr S Jaishankar.

An octogenarian AICC President dismissed Operation Sindoor as a mere 'chut phut', Jairam Ramesh, the party's designated mouth-piece, stooped to equate Indias measured response—with terrorists. It was a spectacle mot of leadership but of activate and the control of the c The health system itself can be inaccessible, with little support to help people with disability access services. For instance, navigating cancer care can be overwhelming, especially for people who need support for daily activities, transport or communication. People with disability, especially with intellectual disability, need extra time and support to give informed consent to screening, treatment or procedures – resources and time particularly overstretched in public health systems. People with disability can also experience both direct and indirect discrimination in health care, which lead to poorer outcomes.

a circus. Rahul himself plunged lead to poorer outcomes. into depths of impropriety by branding Dr Jaishankar a "Jaichand"—an intolerable insult not just to a distin-

Vadnagar to Global Vanguard: Modi's saga of boldness

guished diplomat but to In-dia's collective pride. Their outbursts aren't mere gaffes; they're a decla-ration of their frustration at being outclassed and outmanoeuvred by a leader with the spine to act decisively.

the spine to act decisively.

Congress, once the custodian of national aspiration, has now become the chief apologist for anti-national rhetoric. Leaders like Shashi Tharoor, who dare to articulate a vision of unapologetic nationalism, are derided as "super BIP spokes-persons." It's saying that Congress punishes its own for standing with the nation while fawning over dynastic mediocrity. Their contempt for nationalism is matched only by their disdain for the armed forces and India's democratic institutions.

tutions. When Modi honours sol-

formative 11-year tenure, some self-styled members of the so-called intelligentsia

some sen-styled members of the so-called intelligentsia accused me of giving undue attention to Rahul Gandhi—a man who, by any measure, is now a political relic. If they choose to serve as chereleaders for a party that has collapsed into irrelevance, so be it.

But let's be blunt: a party that once ruled India for over five and a half decades and preens itself as the liberator of India from British rule (a claim that is, at best, a selective half-truth), now speaks the language of our rogue neighbour, undermines the valour of our armed forces, with dangerous half-truths and baseless cynicism. Just look at their post-Operation Sindoor antics. Instead of saluting the audacity and precision with hosh landia stroke does not be supported to the saluting the audacity and precision with hosh landia stroke does not be supported to the saluting the audacity and precision with hosh landia stroke does not support to the saluting the audacity and precision with hosh landia stroke does not seen the salution of the salut

dacity and precision with which India struck deep into

tutions. When Modi honours soldiers or praises national restilence, Congress dismisses
it as "jumla." When Modi
projects India's strength,
Congress resorts to petty
mockery, hiding behind the
martyrdom of Indira and
Rajiv Gandhi as though no
other Indian has made sacrifices for the nation.
And then there's Mamata
Banerjee. West Bengal's
Chief Minister declared
there was "no war"—merely
a "small incident"—and had
the temerity to object to the
name. Operation Sindoor.
Perhaps she should direct
her questions to the countless women who lost their
Sindoor—their husbands,
their protectors—during this
operation. Her dismissive
remarks were a disgraceful
affront to all those women
who lost their Sindoor. It is
a calculated insult that the
nation will neither forget nor
forgive.
Against this nauseating

nation will neither forget nor forgive.

Against this nauseating backdrop of an opposition mired in cynicism and self-loathing, the contrast with Modi's leadership could not be starker. When he assumed office, India was staggering under the weight of policy paralysis, corruption scandals, and a crisis of confidence sown by the UPAs muddled coalition politics. Modi's promise of "Sabla Saath, Sabka Vikas" electrified a nation exhausted by incompetence.

Sadih, Sadika vikas excurfied a nation exhausted by
incompetence.
Contrast Congress' feeling
of isolation and desperation
with Modis' unapologetic,
assertive leadership. His
policies—though polarising at times—have undeniably transformed India into
the world's fourth-largest
economy. Under his stewardship, the BIP has shattered
electoral ceilings, expanding
from the Hindi heartland
into regions long dominated
by opposition parties.
The 'Modi wave' is not
just a slogan—it's a tectonic
shift in the country's political
geography.

His ambitious develors.

eography. His ambitious develop-His ambitious develop-ment agenda—Make in In-dia, Digital India, Swachh Bharat, Ujiwala Yojana—has brought tangible benefits to millions. Infrastructure projects, renewable energy expansion, high-speed rail,



irrelevance in today's India has been exposed. It brings out their petty attempts to belittle India's military achievements and undermine national institutions with Narendra Modi's bold, unapologetic leadership over the past 11 years. From Operation Sindoor's daring success to sweeping developmental reforms and a reassertion of India's sovereignty, the piece highlights a nation transformed by decisive governance. As the opposition clings to obsolete slogans and self-inflicted irrelevance, India surges forward-confident, assertive, and determined to define its future on its own terms. This sharp, incisive analysis cuts through the noise to reveal the stark contrast between empty rhetoric and

transformative action

and digital connectivity have reinforced the image of a government that delivers. Welfare schemes like PM-Kisan and Ayushman Bharat ensure that even the most marginalised are not left be-hind.

Moreover, Modi's strategic

Moreover, Modi's strategic mastery over communication—through social media, symbolic gestures, and "Mann Ki Baat"—allows him to bypass the opposition's clumsy narratives and connect directly with the masses. His decisive handling of national security—from surgical strikes to Balakot to Operation Sindoor—underscores his credentials as a leader who prioritises national interests over political correctness. The revocation of Article 370 wasn't just a political statement; it was a tectonic assertion of India's sovereignty.

tectonic assertion of India's sovereignty.

On the global stage, Modi has redefined India's pres-ence. His government has deepened ties with powers like the US, Japan, Israel, and Australia, while engaging re-gional forums like the Quad and BRICS. The C20 summit hosted by India in 2023 was a crowning moment, protect-

hosted by India in 2023 was a crowning moment, projecting India as a confident, culturally roated, and globally engaged power.

His emphasis on civilisatives like International Yoga Day and cultural diplomacy—has sent a clear message: India will not be lectured to by the West.

Operation Sindoor was not

by the West.

Operation Sindoor was not just a military manoeuvre; it was a testament to Modi's decisive leadership. While opposition leaders wallowed in distractions, Operation Sindoor delivered a blow not only to general infestive true.

a surgical assertion of sover-eignty and a master class in statecraft.

cignty and a master class in statecraft.

Of course, Modi's tenure has not been without controversy—concerns over rising majoritarianism, demonetisation, GST, perceived suppression of dissent, and the use of investigative agencies against opponents have been raised. The abrogation of Article 370, the Citizenship Amendment Act (CAA), and Article 370, the Citizenship Amendment Act (CAA), and handling of protests drew sharp criticism. But despite this, the electorate continues to repose faith in his lead-ership. The BIP's resound-ing victory in 2019, with an even bigger mandate than in 2014, underscored this trust in him.

2014, underscored this trust in him.

In just eleven years, Narendra Modi has scaled political heights that few dared to imagine. And as Congress flounders in confusion, clinging to stale slogans and dynastic entitlement, Modi's leadership continues to command the confidence of a nation that froves the differ. nation that knows the differ

main the Commerce of a mation that knows the difference between empty hetoric and decisive action.

The question isn't whether the opposition can recover from its current irrelevance. The real question is swhether they can even comprehend the scale of their self-inflicted demise. As Rahul, Mamata, and their hapless cabal continue to sneer at national achievements. Modi marches forward—undaunted, unapologetic, and unchallenged. While they drown in slogans and scorn, he builds a new India: confident, assertive, and unafraid to confront its adversaries. History, after all, adversaries. History, after all, adversaries. History, after all, remembers not the whiners and the weak, but the bold who dared—and delivered.

(The author is former Chief Editor of The Hans India)

(LETTERS

A 'World No Tobacco Day' resolve

A 'World No Tobacco Day' resolve

May 31 is observed as World No Tobacco Day by the
World Health Organization every year. The theme
for 2025 is 'Burning products, exposing bad intentions,'
which primarily aims to make people aware of the harmful impacts of tobacco consumption and its various other
products on our health, including increasing the risk of
cancer, respiratory diseases and heart-related illnesses.
According to a survey, 42 per cent of men and 14 per cent
of women in India consume tobacco. Products like bidis
or plain tobacco are so inexpensive that the poor and labour class easily fall into the vicious trap of addiction. India has the highest number of cancer patients among men.
While, globally, lung cancer is the most common cancer
among men, in our country, oral cancer, also caused by tobacco consumption, takes a heavier toll among men due.
We must take immediate steps—especially through various community groups, NGOs, and government initiatives—to reduce tobacco consumption. Only then can we
save our country's poor and youth from this grave threat.

Dr. Bitesh Mori Kutch, Gujarat

Two women from Indian Navy create history

Navy create history

TwO women from the Indian Navy's sailing team aboard INSV Tarini returned after completing their mission, Navika Sagar Parikrama II. Commander Dilna K and Lt Commander Roopa A created history by becoming the first Indian women to circumnavigate the globe in a sailing vessel in double-handed mode—relying solely on each other, sails, and wind power. They also created several other records-their yacht Tarini becoming the first Indian sailing vessel to cross Point Nemo, the oceanic pole of inaccessibility; the crew also crossed the Roaring Forties, Prime Meridian, and the Cape of Good Hope, enduring some of the toughest sailing conditions on Earth. They have demonstrated that Indian women are ready to take up any ventures and prove their mettle. Indian women are gradually moving from a conservative nutshell into a progressive and liberal one, which august well for a fast-changing society. By defying all accompanying odds, Commander Dilna and Lt Commander Roopa have become role-models for the younger generation, especially our girls.

M Pradyu, Kannur

Kudos to first NDA women batch

THE first batch of women from the NDA has proven that they are second to none. Their achievements inspire countless others, embodying resilience and dedication. They've made our nation proud, ensuring that the tricolour continues to soar high. Hope more girls take up this wonderful career in the future.

TS Karthik, Kilpauk, Chennai-10

RBI surplus: What's there for the people?

THE RBI's record surplus transfer of 82.11 lakh crore

To the government has made the headlines — but will
it reach household kitchens is the million-dollar question.
In times of high inflation, job insecurity, and falling savings, numbers alone don't inspire hope. Unless this fiscal
winfall is directed towards public welfare, employment
generation, and economic revival, it's just ink on a ledger.
Real growth isn't measured in reserves but in relief. Before
the government pats itself on the back, it must answer:
how does this gain benefit the struggling citizen? After all,
surplus without support is a hollow celebration.

Hasnain, MMERC, Mumbai

50% of IPL earning should go to defence fund

WE suggest that 50 per cent of the IPL earnings should go to the Union Governments, or PMO's Border-defence expenditure Fund. This money should exclusively be used to e-monitor the border like installing CCTV cameras, drones, satellites; fencing walls wherever feasible around Pakistan and Bangladesh and to cover other military-related expenses.

However, the priority should be peace talks' with Pakistan and put an end to all terrorist camps in Pakistan. In addition, every citizen of India (143 crore population) should pay at least one rupee to the defence fund. The revenue so generated can go a long way in becoming self-reliant.

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BENGALURU ONLINE

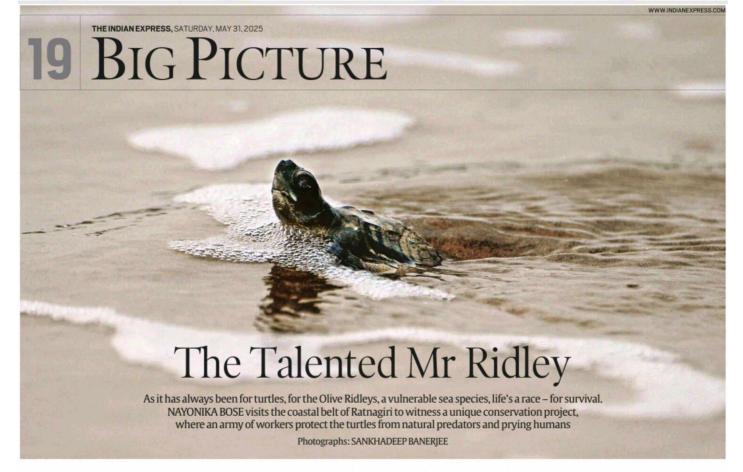
Bengaluru among global tech powerhouses, says CBRE report

BENGALURU: Bengaluru, long celebrated as India's IT capital, has now earned a place among the world's top 12 technology powerhouses, according to a report by global real estate consulting firm CBRE. The report, titled Global Tech Talent Guidebook 2025, reveals that the city has surreal estate consulting firm CBRE. The report, titled Global Tech Talent Guidebook 2025, reveals that the city has surpassed 1 million tech professionals — making it one of the largest tech talent hubs in the Asia-Pacific region, along-side Beijing and Shanghai. The report evaluates 115 global markets based on the availability, quality, and cost of tech talent. These markets are categorized into three groups: Powerhouses (12 major hubs with deep and competitive talent pools). Established (63 mature markets with steady pipelines), and Emerging (40 growth-focused markets with development potential). Bengaluru has been ranked among the elite "Powerhouse" category, joining the likes of Beijing. Botton, London, New York Metro, Paris, San Francisco Bay Area, Seattle, Shanghai, Singapore, Tokyo, and Toronto. CBRE highlights Bengaluru's vast and growing tech worldorce as a key factor for its global recognition. With over 1 million tech professionals, the city has become a leading destination for innovation, digital transformation, and artificial intelligence.

**Bengaluru's emergence as a global tech superpower reflects India's strategic depth in digital innovation, AI readiness, and talent capability," said Anshuman Magazine, Chairman and CEO of CBRE for India, Southeast Asia, West Asia, and Africa.

**Read more at

Read more at https://epaper.thehansindia.com



S THE sun sets, the quiet nights along Guhagar beach in Maharashtra's Ratnagiri district are interrupted by the crash of waves and the chirp of cicadas. On one such night in December

of cicadas. On one such night in December last year, Akash Jangali and Vilsrant Sangle, on a patrol along the Bazaar Peth belt of the beach, came across a noisy huddle of animals. A flash of red light — considered "nurle-safe" — a wave of luthis and a jog down the shoreline confirmed their worst fears: a pack of dogs and golden jackals were burrowing their way into the sand to reach a nest of eggs recently laid by an Olive Ridley turtle. Shooing the predators away, the two men re-located nearly 80 eggs from the nest to a nearby hatchery.

located nearly 80 eggs from the nest to a nearby hatchery.

Amonth later, on January 22 this year, an-other patrol team on the same stretch came across a female Olive Ridley nesting on the beach. The turtle had glistening metal tags, one on each of its front flippers, bearing the number 103233.

The turtle's discovery brought to the fore many revelations. In what became perhaps the first documented instance of a turtle trav-elling nearly 4,500 km from India's east coast to its west. Turtle 03233 — an inspection of the to its west. Turtle 03233 — an inspection of the number of the properties of properties properti

ling nearly 4.500 km from India's east coast to its west, Turtle 03233 — an inspection of her flipper tag revealed – had set off from the Odisha coastline in 2021, where it had been tagged by a team of Zoological Survey of India (ZSI) researchers.

Turtle 03233's migratory feat brings into focus the conservation efforts on India's west coast— until now, a lesser known habitat of the Olive Ridleys.

It's the eastern coast, particularly Odisha, that's considered the home of the Olive Ridleys. Here, every year, between January and March, the shores are witness to an incredible sight — thousands of Olive Ridleys come together to Jay eggs in Warks's known. credible sight — thousands of Olive Ridleys come together to lay eggs in what's Known as arribada (Spanish for 'arrival'), a mass, synchronised nesting event that the species engages in. This year, a record seven lakh Olive Ridley turtles laid eggs at the Rushikulya rookery, one of the nesting grounds in Ganjam, Odisha. Yet, in India and elsewhere, the Olive Ridleys — despite being the most common sea turtle species in the world — have steadily dwindled owing to poaching and commercial fishing activities such as trawling, among other factors. The turtles have been listed as

cial fishing activities such as trawling, among other factors. The turtles have been listed as vulnerable — facing a high risk of extinction — in the IUCN (International Union for Conservation of Nature) Red List of Threatened Species, in India, they are protected under Schedule 1 of the Wildlife Protection Act, 1972. According to expert estimates, for every 1,000 hacthings, only one Olive Ridley turtle reaches adulthood.

Which is why, the recent discovery of Turtle 03233 on Maharashtra's Ratnagiri coast was a cause for cheer among the state's

Which is why, the recent discovery of Turtle 03233 son Maharashtra's Ratnagiri coast was a cause for cheer among the state's conservationists and the Kasav Mitra Mandal, a 146-member cohort of beach managers' deployed by the Maharashtra forest department for a monthly remuneration to provide a safe nesting habitat for Olive Ridleys across three districts in the state. According to the preliminary findings of a study by the Wildlife Institute of India (WII) and the state forest department, Maharashtra, which has the highest number of solitary nessing sites along the west coast, accounts for nearly 20% of the country's Olive Ridley nests. The study is slated to be submitted to the Union Environment Ministry in June this year. "While the Olive Ridley numbers are much higher on the eastern coast owing to the geographical advantages, conservation efforts cannot be neglected on the west Coast, "says Ranchan Pawar, Deputy Forest Officer of the Maharashtra forest department's Mangrowe cell, South Konkan, which is leading the conservation efforts. "Sea turtles are the most important species in ma-





Dilip, one of the beach managers at Guhagar beach in Maharashtra's Ratnagiri district, with a tub full of Olive Ridley hatchlings that he will release into the sea; at the hatchery to where the eggs are moved, the volunteers put a label on each nest with details of the number of eggs, date of nesting etc join FREE Wahssup Channel hittps://bashsup.com/channel/2003/avx12yRs6RgiOR/Ms6BdiOF

rine life as they play a crucial role in maintaining the fish population and aquatic biodiversity. These turtles primarily feed on jellyfish and sagae. If urtle numbers decline, jellyfish and algae will thrive, thereby affecting the fish population."

It's a fact that Pawar's teams highlight during their workshops with coastal communities across Maharashtra. "Fishermen have now started realising that without sea turtles, not only will their existence be threatened, but their livelihoods will also be affected," says Pawar. affected," says Pawar.

The Ridleys and the sea

The Ridleys and the sea
As dawn breaks over Guhagar on April
26, news of the birth of 33 Olive Ridleys
spreads through the sleepy beach twon like
fire. Soon, a team of six beach managers report at the beach. What happens next seems
almost like a ritual.

As the newer beach managers drag their
sticks across the dry sand to draw a huge
boundary line, Dilip, 60, walks towards the
coast. In his arms is a blue plastic tub full of
sand and 33 wriggling Olive Ridley babies.
Bending down, he releases the turtles one by
one near the sea.

Bending down, he releases the turtles one by one near the sea. Guided by the vibrations of the waves and the light, the turtles, all of hree-four inches each, seem all too eager to rush home. As a crowd of spectators gathers around the boundary line and cheers themon, the hatchlings make a run for the ocean —clumsily at first, but with precision almost minutes later. While some touch the tideline within five minutes, other state end belly up are given a gentle nudge by their caregivers. In just 15-20 minutes, they become one with the ocean —l't's as if the school has ended and now they are all running to go back home, "smiles Mohan Upadhye, 47, a researcher with the state's Mangrove Foundation. And then, just like that, the turtles learn to live in the waters — dodging predators and foraging for food — until they grow up over the next 10-15 years and it's time for the females to nest. That's when they'll return to the shore they left as babies.

"Their lifespan of nearly 50 years in till of the shore they for the water of the shore they of the shore they for the shore they for so where it is the shore they for so where it is the shore they for a shabies.

"Their lifespan of nearly 50 years in the state full of

the shore they life turn to the shore they left as babics.

"Their lifespan of nearly 50 years is full of challenges. They get estranged from their nest siblings within minutes of birth. And then, there's a lifetime of having to deal with natural predators, and of course, human activities like fishing, trawling, rising pollution, plastic and other debris, oil spills etc." says Upadhye, who is in charge of the beach managers and oversees the nestring-hatching process on the beaches of Ratnagiri.

Even before the turtles come to the shore, the beach managers launch into action to ensure a sale nesting experience—starting with

KNOW THE OLIVE RIDLEY

They are smallest and most abundant of all sea turtle species. Other sea turtles in India include Green sea turtles, Hawksbill, Leatherback turtles, Loggerhead turtles





■ Food: They feed on shrimp, sn crabs, jellyfish, other varieties of and their eggs.

Traditionally, Olive Ridley turties are found in large numbers on the eastern coast of India. The highest number of mass nesting happens in Odisha, while highest solitary nesting is observed in Tamil Nadu, Andhra Pradesh.

PROTECTION STATUS

Categorised as 'Vulnerable' in the IUCN Red List, studies show that Oli Ridleys have experienced a 30-50

Source: Mahanashira Forest Department
Join FREET elegram Channel https://t.me/+JU.
the setting up of hatcheries. And once the turtiles return to the sea after nesting, the beach
managers ensure the eggs left behind are
safely transferred to the hatcheries, where
they await the arrival of the Ridley habies.
For the upcoming nesting season this
year-end, the Maharashira coast is expecting an influx of Olive Ridleys. Last year,
Guhagar welcomed its first nesting Olive
Ridley on November 15.

"The forest department deploys two
beach managers for every 2 km," says Kiran

beach managers for every 2 km," says Kiran Thakur, the Range Forest Officer of Mangrove

Thakur, the Range Forest Officer of Mangrove cell in Ratnagiri.

Kicking off their night patrol at 10 pm, when the beaches are free of human disturbance, the beach managers fan out until 3 am, after which they take a break. They then return to the coast at 5.30 am and continue the morning patrol until 1:30-8 am.

Upadhye says Olive Ridleys typically swin to the coast at night, seeking an ideal nesting spot — one that is away from the tide-

■ Rate of survival is very low: For over 1,000 hatchlings that enter the sea waters, only one survives to adulthood.

■ The Ridleys are protected under Schedule I of the Indian Wildlife (Protection) Act, which means they are accorded the highest level of protection with hunting and trade of the species strictly prohibited.

■Threats: Fishing; exploitation of nesting beaches; illegal poaching meat, eggs, shells, leather etc.

Vkg0AFHBAwMGQ1 line and along a slope. After it finds a safe spot for its teggs, the turtle burrows the sand with its flippers and builds a pot-like nest. Over the next two hours, it lays anywhere be-tween 80-150 eggs inside this nest, after which it uses its flippers to hastily cover the eggs and then wades back into the waters. Left behind, these eggs must overcome a host of obstacles – predators, high tide and pry-ing beach goers – over the course of 45-50 days before they hatch naturally. Videos that surfaced on social media in March this year showed how attempts by fe-

Videos that surfaced on social media in March this year showed how attempts by female Olive Ridley turtles to nest along the Juhu beach in Mumbai were thwarted at least twice in two weeks. These videos showed visitors flashing their camera lights at the turtles and poking their shells.

As he releases the newest batch of hatchlings on April 26, a visibly emotional Dilip says, "We look after them as if they are our babies. If we lose some pillit (Intchilings) during the hatchling period, we get emotional."

beaches were of turtles," he says.

The NGO, he says, started awareness drives to clear misconceptions and would often call on villagers to witness the hatching process. Slowly but surely, things started to change. "In some villages of Sindhudurg district now, villagers say that since the female turtle has returned to her misk (maternal house) to give birth, they should look after her babies," says Upadhye, who joined hands with the NGO in 2003.

By 2006, the Maharashtra government stepped in, with the forest department's Mangrove cell, in association with local NGO such as Salvyadri Nisarg Mitra, launching its Kasaw Mitra or "Friends of Turtles' programme.

gramme. The conservation programme roped in villagers for a monthly pay of Rs 13,000 as beach managers across 64 coastal towns in Maharashtra's Ratnagtin', Raigad and Sindhudurg districts.
Shardul Todankar, 22, a second-generation beach manager, says his knowledge of turtle nesting came from his father Alhad Eknath Todankar, among the first beach managers in these parts: "He has looked after turtles and their nests since 2013. At 3 am every night, he would patrol the beach. Though he usually covered the entire beach.

every night, he would patrol the beach. Though he usually overed the entire beach all by himself, Iwould join him at times. That is how I learnt about turtles and grew fond of them; "asy Shardul, a Boomstudent, who decided to do the job after his father passed away in 2021.

It's "nusha (addiction)", says Abhinay Kelaskar, 36, a resident of Anjarle beach town and a Mangrove cell researcher, about his fascination for trutles. "Usually! I wake up around 7 am. During the nesting season, lautomatically wake up at 4 am and head towards the sea. The excitement I feel is inexplicable. In fact, at times, I even dream of turtles," he says.

wards the sea. The excitement I feel is inexplicable. In fact, at times, I even dream of turties," he says.

The project has begun to show results. Over the past two years, the number of eggs laid by nesting Olive Ridleys across Maharashtra has seen a 75% spike—from 157 lakheggs in 2022-2023 to 2.77 lakh in 2024-2025. So have the number of hatchlings - 1.25 lakh hatchlings released so far this season, against 84.251 hatchlings in 2022-2023. In fact, Olive Ridleys have also made a comeback at Klhim beach in Alibaug, a popular beach town 100 km south of Mumbai, for the first time in 40 years. Around 70 hatchlings were released into the sea at Alibaug on Appril 26 this year.

The project has also provided a new south of some of livelihood for the villagers — in these coastal towns of Konkan, fishing and cash crops such as mangoes are the primary sources of income.

For the tourists who frequent these beaches, the turtless are an added attraction. Since 2006, Velas and Anjarle towns in Ratnagiri district have been celebrating Olive Ridley festivals.

A long race

A long race
Despite the positive trends, scientists, including Dr Suresh Kumar, senior scientist at
the Wildliffe Institute of India, Debradun, who
has studied the movements and migration
of Olive Ridley turtles as part of his doctoral
research, say it's a long road ahead for the
vulnerable species.

"While it is essential to highlight the
growing number of restins size. Lowalthles

"While it is essential to highlight the growing number of nesting sites, I would be hesitant to say that the population of Olive Ridley turtles is also growing as a large number of turtles are still dying." he says. DFO Pawar agrees, adding that conserva-tion work in Maharashtra is in its early stages. Vet, she is hopeful that the efforts will pay off some day. "It is possible that some of the hatchlings we released from our coast 10 years ago are now returning as adult females." years ago are now retu to nest," smiles Pawar



Friends of turtles

But not too long ago, these coastlines weren't the safest of spaces for the turtles. Fisherfolk in the Konkan worship turtles as an avatar of Lord Vishnu — if a turtle gets

as an avatar of Lord Vishnu— if a turtle gets entangled in their nets, they perform a puju seeking forgiveness, offer coconuts and apply kumkum (vermilion) on its shell before releasing it back in the sea. Yet, until some years ago, the local community was unaware that the beaches in their backyard served as a nesting site for these sea creatures.

Seventy-year-old Sanjay Shankar Bhosale, who was roped in as a kasar mitra in 2022 given his "knowledge of the coasts", says, "I was born in Guhagar and have lived lere all my life. Yet, I never knew that our beaches were frequented by these turtles."

Upadhye, who has been working to conserve turtles for the past 21 years, says, "Until two decades ago, in several villages here.

SIZE: 2-2.5 FEET percent decline worldwide

HABITAT IN INDIA

Traditionally, Olive Ridley turtles are

serve turtles for the past 21 years, says, "Until two decades ago, in several villages here, people would eat turtle eggs. Not just that, female turtles were poached and turtle meat was sold in the market." He says "true" change came only in 2002, when NGO Sahyadri Nisarg Mitra started awareness programmes along the coast. "In the survey, the NGO discovered that many villagers had no clue that the eggs on the

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

How IMF has forced Pakistan to reform its farm sector

HARISH DAMODARAN

THE GOVERNMENT of Pakistan, under pressure from the International Monetary Fund (IMF), has not declared a minimum support price (MSF) for the 2024-25 wheat crop.

And Pakistan Agricultural Storage & Services Corporation Ltd (PASSCO), that country's equivalent of the Food Corporation

of India (FCI), has not pro-cured a single tonne this time. This year's wheat crop was sown in November-**ECONOMICS**

sown in November-December 2024, and is being marketed from April. The MSP for the 2023-24 crop was fixed at Rs 3,900 per maund (40 kg), i.e. Rs 9,750/quintal. PASSCO procured 1.79 million tonnes (mt) of wheat last year.

Reform at gunpoint

Dispensing with MSP and the gove ent procurement of wheat is part of nditionality linked to the IMF's Exten Fund Facility loan of \$7,113 million to Pakistar rsed from the 2024-25 fiscal year

to the 2027-28 fiscal year (FY; July-June

government for availing the loan states that in the case of wheat "we have abstained from anthe case of wheat "we have abstained from announcing support prices and undertaking
provincial procurement operations during the
2025 Rabi season and are committed to continue this approach going forward".

The memorandum has, in fact, committed to "winding down PASSCO" under an
overall plan to "phase our feedral and provincial government price-setting for agricultural
commodities by end-P256".

Aconsultancy firm, TAGM.
Aconsultancy firm, TAGM.
See Deschause assessed to see

A consultancy firm, TAGM & Co, has been appointed to as-sess the value of the 51-year-old corporation's warehouses

offices, and other assets, and to formulate a winding-up plan "within three months".

The memorandum given to the IMF has also promised a review of all relevant legislation underpinning government interventions in commodity markets "by end-December 2025". These include the Price Control and Prevention of Profiteering and Hoarding Act. 1977 (similar to India's Essential Commodities Act 1957) (similar to India's Essential Commodities Act 1957). Act, 1955) and provincial laws such as the Punjab Foodstuffs (Control) Act, 1958.

All four provinces of Pakistan - Punjab, Sindh, Khyber Pakhtunkhwa and Balochista

PRODUCTION OF KEY CROPS IN 2023-24 (million tonnes)

	Pak	India	Punjab	UP
Vheat	31.44	113.29	17.74	35.34
tice	9.75	137.83	14.36	15.99
Maize 9		37.67	0.36	2.67
otton*	5	25.39	0.49	0
clone	0.51	12.26	0.07	102

"In million bales of 480 pounds. Source: US Department of Agriculture; Department of Agriculture & Farmers' M Government of India; Cotton Advisory Be

have already amended their individual Agriculture income Tax legislation to fully align with federal-level personal and corporate income tax regimes applicable to ordinary farmers and commercial agriculture respectively.

The amendments will enable taxation of

farm incomes "from lanuary 1, 2025"

Contrast with India India has not been under any IMF-guided program since June 1995, when it to be last tranche of a Standby Arrangement loan of 2,207,925 million SDR (special draw-

loan of 2,207.925 million SDR (special draw-ing rights), equivalent to \$2,394 million. This loan, taken between April 1991 and June 1993 when the country was facing a bal-ance of payments (BoP) crisis like Pakistan is today, was repaid fully by May 31, 2000. There is, therefore, no question of any re-forms in India being imposed from outside. Indian government agencies have so far procured almost 30 ms of the 2024–25 wheat crop at the MSP of \$2,425 per minist IC (The

crop at the MSP of Rs 2,425 per quintal. (The Indian rupee is more than 3.3 times the

Pakistani rupee.)
They have also purchased 85.5 mt of paddy (equivalent to 57.3 mt of milled rice) at the MSP of Rs 2,300-2,320 per quintal.

Apart from MSP procurement and stock-ing of grain by FCI, India provides subside on fertilisers, electricity for irrigation and canal water, crop credit, insurance premium and other fam inputs. Income from agricul-ture attracts no tax. are reforms in India need to ad-

dress issues such as distorted cropping pat-terns (more rice, wheat and sugarcane being own at the expense of pulses, oilseeds, aize, cotton and millets) and inefficient/

The Narendra Modi government's repeal of the three farm laws liberalising trade in agricultural produce — which it pushed through Parliament in September 2020 — demon-

Parliament in Separation by Commentaria the limitations of reform by Commentaria under current political economy realities.

The impetus for farm reform in India is the come from internal fiscal presentation in the come from internal fiscal presentation. The impetus for farm reform in India is more likely to come from internal fiscal pres-sures. And that would probably be at the level of individual states (Punjab, for instance) rather than from the Centre

Production comparisons

Production comparisons
The US Department of Agriculture (USDA)
expects Palsians wheat production in 202425 (that crop is now being marketed) to be 28.5
mt, down from last year's record 31.44 mt.
The decline is due to a reduction in area
sown, from 95 million to 91 million hectares.
That is attributed to the decision to discontinue
MSP procurement, as well as the dry weather.
Since October 2024 and throughout the
growing season, Pakistan saw below-average; rainfall and above-average temperatures.
While wheat is largely an irrigated crop, the
2-3 showers normally received during the
winter-spring months help supplement irrigation water and positively impact yields. rigation water and positively impact yields

pita consumption of around 124 kg per year one of the highest in the world", according to USDA. The agency projects the country's consumption in 2025-26 at 31.5 mt, which

consumption in 2025-26 at 31.5 mt, which will necessitate imports. Palsata mays forced to import 3.59 mt in 2023-24 (May-April) and 2.73 mt in the previous marketing year. It's the opposite situation in rice. Palsistan's annual production of 9.75-9.5 mt is far more than the domestic consumption of 4.1-4.2 mt. That makes Palsistan an exporter of rice — the fourth largest after India, Vietnam, and Thailand. Palsistan's rice shipments were at 6.49 mt in 2023-24 and 5.5 mt in 2024-25. Palsistan's custrust of wheet rice maire.

Pakistan's output of wheat, rice, maize, and cotton is lower than India's. But a more

and cotton is lower than India's. But a more appropriate comparison would be with Utar Pradesh (which has almost the same population) and Punjab (having similar growing conditions). (Table)
Pakistan scores reasonably on the above counts, although the medium and long-term impact of the IMF-imposed reforms — plus more resources going towards military spending — on its agricultural economy remains to be seen.

LONGER VERSION ON

EXPLAINED SCIENCE

WHY ARE MEN TALLER THAN WOMEN? NEW STUDY FINDS A GENETIC CLUE

MEN ARE taller than women, by an aver

SHOX: present in both sexes...

SHOX is present on both the X chro some (females have two X chromo ses) and the Y chromosome (males somes) and the Y chromosome (males have one X and one Y). If it were to explain the height difference between males and females, SHOX would need to have a different effect on each chromosome

To investigate this hypothesis, re-searchers asked if an extra Y chromo

searchers asked if an extra Y chromosome boosted a person's height more than an extra X chromosome.

There are race conditions in which people are born with an extra X or an extra Y or have a missing X or Y 15 find people with these conditions, researchers plumbed data from three biobanks, one from Britain, and two from the US.

Looking at nearly a million individuals' data, the researchers were able to find 1225 neople with either missing or

uals' data, the researchers were able to find 1,225 people with either missing or extra X or Y chromosomes. Some of these conditions, like in people with one X and no Y, were known to be associated with health issues — as well as, in this case, short stature.

And, researchers found, an extra Y did provide more height than an extra X. Their hypothesis was thus borne out.

... But more active in males

The biochemistry of the SHOX gene

Matthew Oetjens, a genetics re Mattnew Octens, a genetics re-searcher at Geisinger College of Health Sciences in Danville, Pennsylvania, and senior author of the study, explained. The placement of the SHOX gene is near the end of the sex chromosomes. In

THE NEW SESSION

📵 Drishti IAS 🖯



Getty Images females, most genes on one of the two Xs are silenced, or inactive. But one region where the genes remain active is at the very tip of the X. The SHOX gene is close enough to the tip that it is not quite silenced. In men, the X. with its SHOX, is fully active. So is the Y.

This means that a woman, with her two X chromosomes, will have a slightly lower dose of the SHOX gene felth an a man, with an X and a X. As a result, makes get a slightly bigger SHOX gene effects.

with an X and a Y. As a result, males get a slightly bigger SHOX gene effect.

That, the researchers calculated, accounts for nearly a quarter of the average difference in height between men and women. Oetjens said that other features of male sex hormones account for most of the rest of the difference, and other genetic factors are thought to play a role.

The work is 'definitely cool,' said Eric Schadt, a professor in the department of genetics and genomic science at Mount Sinai School of Medicine in New York. It is a a rest use of these

City. He said: "It is a great use of these biobanks to uncover what is still some what of a mystery... Even though the effect is modest, it does explain 20% or so of the height difference."

THE NEW YORK TIMES

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How is economic growth and national income measured? Why are the estimates "provisional"? What are the key takeaways from the data released by the government on Friday?

EXPLAINED ECONOMICS

What latest economic data show

THE MINISTRY of Statistics and Programme Implementation (MoSPI) on Friday released two interrelated data sets on India's national income and the size of its economy. The first provides an estimate of India's economic growth in the fourth quarter (Q4, January to March) of the last financial year (2024-25 or FY25). The second provides provisional estimates of concents menut for FO?5. tes of economic growth for FY25

How is national income measured?
Economic growth is measured using two metrics.
Gross Domestic Product (GDP) is calculated by adding up all the expenditures by Indians in their individual capacity, expenditures by governments, expenditures by private businesse, etc. This provides a picture of by indians in their individual capacity, expenditures by governments, expenditures by pri-vate businesses, etc. This provides a picture of the demand side of the economy.

Gross Value Added (GVA) looks at the

supply side. It effectively measures the con-tribution of each sector of the economy by

tribution of each sector of the economy by calculating and summing the value added (or income) at each stage of production. Both GDP and GNA are linked: they measure the same economic performance but through different routes. Their relationship can be spelled out using the following equation:

GDP=(GNA)+(tuest earned by government) – (subsidies provided by government) – (subsidies provided by government) and GNA data both in nominal terms (in present day prices) and real terms (after taking away the effect of inflation). Both nominal and real data have their own analytical significance. n analytical significance

Why are the estimates "provisional"?
What makes the estimates released on Friday "provisional" is that they will be revised over the next five years. For any financial year, GDP estimates go through several revisions. In January, the government releases the First Advance Estimates (FAEs) for that financial year. At the end of February, after incorporating the data from Q3 (third quarter, October to December), MoSPI comes up with the Second Advance Estimates (SAEs). By May-end come the Provisional Estimates (FEEs) after incorporating data from Q4. (PEs) after incorporating data from Q4.

The PEs are then revised over the next two years: the First Revised Estimates come a year later, and the Final Estimates two years later. For FY25, these will come in 2026 and 2027 re-

THE DECELERATING TRAJECTORY OF INDIA'S GDP

rear	(in Rs Lakh Crore)	Growth Rate	(in Rs Lakh Crore)	Growth Rate	
2013-14	112.3		98		
2014-15	124.7	11%	105.3	7.4%	
2015-16	137.7	10.5%	113.7 123.1	8% 8,3%	
2016-17	153.9	11.8%			
2017-18	170.9	11%	131.4	6.8%	
2018-19	189	10.6%	139.9	6.5%	
2019-20	201	6.4%	145.3	3.9%	
2020-21	198.5	-1.2%	136.9	-5.8%	
2021-22	236	18.9%	150.2	9.7%	
2022-23	268.9	14%	161.6	7.6%	
2023-24	301.2	12%	176.5	9.2%	
2024-25*	330.7	9.8%	188	6.5%	
CAGR since 2014-15 10,3%		6.1%			
CACR since 2019-20 9.8%			5.1%		

Source: MoSPL CMIE, Indian Express resi

TABLE 2

SECTORAL HEALTH OF THE ECONOMY (IN RS LAKH CRORE)

Real Gross Value Added	2013-14	2018-19	2024-25	CAGR since 2014-15	CAGR since 2019-20
Agriculture	16.1	18.8	24.8	3.99%	4.72%
Industry	28.2	39.8	52.7	5.83%	4.81%
Manufacturing	15.6	23.3	29.5	5.97%	4.04%
Services	46.3	68.8	94.4	6.69%	5.4%

What are the key takeaways?
There are four key takeaways from the data released on Friday.

1. Nominal GOP & its growth India's nominal GDP gree vio R 330.7 trill nominal GDP gree vio R 300.7 trill nominal GDP gree vio R 300.7

India's nominal GDP grew to Rs 330.7 tril-lion (lakk crore) by the end of March 2025, a growth of 9.8% over the GDP in FY24. When converted into US dollar terms (dividing by the dollar-rupee exchange rate of 85.559) for international comparisons, by March-end, the size of India's economy was \$3.87 trillion. It is noteworthy (Table 1) that the growth

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spectively. Each revision benefits from more
data, making GDP estimates more accurate.

What are the key takeaways?
There are four key takeaways from the
data released on Friday.

1. Nominal GDP & its growth
India's nominal GDP growth as 330 7 trilJoin Jakh crove) by the end of March 2025, as

Compounded Annual Growth Rate (CACR)
since India iberalised its economy in 1991.
Table 1 also shows how the nominal GDP
growth rate has been decelerating. The
Compounded Annual Growth Rate (CACR)
since 2014-15 stands at 10.3% while the CACR since the start of the second term of the NDA nt in 2019 stands at 9.8%

2. Real GDP & its growth

While the size of the economy uses nom-inal GDP data, international comparisons of growth rate are done based on the growth

rate of real GDP. This is because inflation dif-

rate of real GDP. This is because inflation dif-fers from country to country, and only real GDP provides a genuine understanding about how many actual new goods and services were produced in a particular year. India's real GDP grew by 6.5% in PY25 to reach a level of Rs 188 trillion. The decelera-tion in the pace of real GDP growth — com-pared to FY24, when the growth rate was 9.2% — is even more stark than in the case of nominal GDP growth. The sgap between the real and nominal GDP shows the effect of in-flation in prices of goods and services.

flation in prices of goods and services. Table 1 shows the CAGR of real GDP now Table 1 shows the CAGR of real GDP now stands at just above 5% since 2019. India's economy has lost its growth momentum over the past decade, with the CAGR being just above 6% since 2014.

3. GAM & sectoral health of economy Table 2 shows the real GVA across the three main sectors of the Indian economy:

■ Agriculture and allied activities (such as forestry, etc.):

■ Industry (including sub-sectors such as manufacturing constructions etc.):

■ Industry (including sub-sectors such as manufacturing, construction etc.); and
■ Services (including fields like financial services, trade and hotels etc.)
For FY 25, the real GVA grew by 6.4%, losing a step over the 8.6% growth in FY24. But notably, none of the sectors have grown at a CACR anywhere close to 6% since 2019-20.
The GVA data best captures the true momentum of the Indian economy; not only does it provide insight into the health of each sector, it also excludes the effects of taxes and subsidies, which can distort GDP figures.

4. Manufacturing growth slower than agriculture

Since 2019-20 (Table 2), manufacturing CVA has registered a slower growth rate (CAGR of 40-85) than even agriculture and allied activities (4.728). This explains, to some extent, the high urban —in particular, youth—unemployment in India. It also provides an understanding of why labour has been moving back to Indian villages, and joining agriculture and allied activities. Boosting manufacturing growth has been acornerstone for all governments, none more than the current one, which started the Make in India initiative in 2016. Indeed, manufacturing is the new battleground globally with the US, Europe, and China getting locked in a trade war to protect domestic manufacturing. The weakness in the Indian manufacturing. e 2019-20 (Table 2), manufacturing

The weakness in the Indian manufactur-ing sector is the most important and worri-some takeaway from the latest economic growth data.

Going beyond AQI: study shows why toxicity matters in measuring air pollution

DIPANITA NATH

THE ABILITY of PM2.5 air pollutants to cause damage to cells increases sharply after concentration levels cross a certain threshold value, new research has found. For Kolkata, where the study was carried out, this threshold value is about 70mi-crograms per cubic metre (µg/m²), the study found. Once the PM2.5 concentration study found. Once the PM2.5 concentration crosses this level, its toxicity—or the poter tial to cause damage to the human body-increases sharply, and continues to rise ur

til the concentration reaches about 130 μg/m3. Toxicity stabilises after that, and fur ther increases in concentration do not lead to an appreciable rise in damage potential. The study, by Abhijit Chatterjee of the Bose Institute, Kolkata, and two of his for-

Monami Dutta, is the first attempt at inves-tigating how toxicity of air pollution changes with concentration levels in Indian tigating how toxicity of air pollution changes with concentration levels in Indian cities, ('Contrasting features of winter-time PM2.5 pollution and PM2.5-twickity based on oxidative potential: A long-term (2016-2023) study over Kolicata megacity at eastern Indo-Cangetic Plain', Science of the Total Environment, December 2024). This is not to suggest that at concentrations below 70 µg/m³ in Kolicata, air pollution is benign and does not pose any threat to human health. Pollution is damaging at lower concentrations as well, but it becomes much more toxic after crossing the threshold value.

more toxic after crossing the threshold value

Why this happens

At lower concentrations, the body copes better with the adverse impacts of inhaling pollutants. After the threshold level, however,

whelmed, and the pollutants are able to cause greater damage to cells, particularly the res-piratory systems which are affected first.

piratory systems which are affected first.
When pollutants are inhaled, the body's immune system tends to fight back through the release of Reactive Oxygen Species (ROS), which are chemicals used by immune cells to neutralise foreign substances. When larger concentrations of pollutants are inhaled, greater amounts of ROS are released.
The problems is ROS is

The problem is ROS is

damaging for the body's cells as well. Therefore, as a natural countercells as well. Theretore, as a natural counter-defence mechanism, the body produces an-other set of chemicals, called antioxidants, that protect the cells against ROS. However, antioxidants are present in small quantities, and take time to build up.

nounts of ROS, they are help

with smaller amounts of ROS, they are help-less when ROS is produced in large amounts. A flected first. This leads to an imbalance in the body, a the back through bygen 5 species als used by im-leign substances.

EXPLAINED ENVIRONMENT

EXPLAINED ENVIRONMENT

EXPLAINED ENVIRONMENT

We know that when PM levels increase, there are several consequences.

are several consequences such as haze, dust, and visibility reduction

But how far does toxicity surge? We did not know. Though India has its standards of PM2.5 and PM10, we don't have a threshold value in terms of oxidative stress in the human body. That's where we wanted to

determine the standard." he said.
According to Prof Chatterjee, "When the PMZ.5 concentration level exceeds about 70 ug/m," its potential to create exidative stress increases steeply, mainly because of the presence of some specific chemical components like those coming from biomass or solid waste burning. The components from vehicular emissions also help increase exidative stress, but this is much less compared to biomass burning."
The threshold leveks at which toxicity sees a sharn rise is expected to want from city to

a sharp rise is expected to vary from city to city, mainly due to the differences in the comsition of the air pollutants. In some cities vehicular emissions might be the biggest contributor to pollution; in other places, bio-mass burning might be significant.

Policy implications lity standards are framed in

India, for example, a PM2.5 concentration level of 40 µg/m³, averaged over a year, is considered safe. On a daily basis, a concen-

considered safe. On a daily basis, a concentration of 60 µg/m³ is considered safe. However, the harmful impacts of air pollution on human health depend not just on concentration, but also on toxicity, which takes into account factors like chemical composition of pollutants. In Kollata, for example, the threat that annual PM2.5 concentrations of 50 or 60 µg/m³ poses is not going to be very different from the one posed by a concentration of 30-40 µg/m³. But alarm belis must go off once a level of 70 µg/m³ is reached, in other cities, this would be different.

This study can thus make the case for toxitiger targeted warmings/errogency actions.

Who stole my nationalism?

A defence of Indian nationalism must also confront how it was undermined from the start. Belonging without othering was always under siege



SUHAS PALSHIKAR

THES IN Response to rogentar ataxa v spar-ticed exposition of "indian" nationalism (The nationalism we forgot, IE, May 27), India's imagination and practice of nationalism from the early 20th century was an audacious in-tellectual and political project by any stan-dard, its elaboration and defence in the piece by Yadaw is a valuable reminder of what could have been. While agreeing with his descrip-tion of Indian nationalism, it is necessary to see proviews a snall but critical disagreement. also register a small but critical disagreem with his argument. As Yogendra bhai puts it, Indian nationalism is under assault today; it Indian nationalism is under assault today, it is being replaced by a "phoney nationalism". And yet, he chides us that locating the problem only in the current moment would be wrong and lazy. That is where my disagreement may be located. Let me mention two disagreements, Following from them, there is a third disagreement about the trajectory of the challenge to Indian nationalism, coupled with a question on the semantics of "forgetting," in the hope that this will broaden the scope of the debate.

One disagreement, which may seem like a quibble but is runed and the sound of the office.

the scope of the debate.

One disagreement, which may seem like a quibble but is crucial to understanding the death of Indian nationalism, is the point about not locating the backsliding in what the current regime has done. Indeed, any major somen tregime has done. Indeed, any major socio-political tendency has a deeper lineage than the present. In that sense, let us agree that merely blaming the currently fashionable idea of phoney nationalisms in not an adequate analytical response to what has happened to the idea of Indian nationalism that promised "belonging without othering". Nevertheless, it is not possible to ignore the present moment, which has formally and frontally dishanded Indian nationalism not merely through the subterfuge of practice but through the assault of ideology.

Today, "belonging" is replaced by a conditionalisty: One doesn't belong, some of the decides who belongs, and who must belong to the nation on the basis of one trait or the other. Is in not commonplace today to decide who commonplace today to decide

decides who belongs, and who must belong, to the nation on the basis of one trait or the other. Is it not commonplace today to decide who is a Pakistani by identifying the person's religion, irrespective of whether that person is a colonel or a district magistrate? Don't we witness the othering of communities not just on the basis of religion, but also on the basis of the size of their eyes? So, one "belongs" only on the sufferance of those who claim to own this nation. Thus, the pseudo-nationalism of today doesn't allow citizens to belong without preconditions and without tests of patriotism. A politics that mixes — via vigilative loveline and state patronage — forced attachment and an ideology of othering has become the lingual franca of the phoney nationalism of today. Against this backdrop, the "backsiding" or, or, in fact, dishandment and delegitimisation — of Indian nationalism must be located in the contemporary moment notwithstanding the failures to consolidate it in the past. As a matter of fact, it is not backsliding but a resolute replacement of Join FREE Whatsapp Channel https://whatsap



Indian nationalism.

But of course, I would agree with Yadav that this process did not start in 2014 — or with Narendra Modi. December 1992 marked a major departure from the imagination of inclusion and accommodation. And as we know, December 1992 itself was a culmination of a long history of imagining the nation of along history of imagining the nation of along history of imagining the nation only through othering. This process formally took an organisational shape exactly a certury ago. However, we still cannot ignore the significance and force that the decade since 2014 has brought to bear on the dramatic demise of Indian nationalism.

This long history of the gradual challenge thrown at Indian nationalism forces me to disagree with Yogendra bhoi on a second point. He finds the post-independence elite and the ruling ideology responsible for the disconnect between citizens and Indian nationalism. Again, let me begin with agreement. A section of "secular-liberal" elites did ignore the cultural dimension; it even overlooked the potential of traditions emanating from religion. But it is an exaggeration to blame this section for the crisis faced by Indian nationalism. This section was fat too tiny to have any influence; worse, it was mostly English-speaking and lacked any real blame this section for the crisis faced by Indian nationalism. This section was far too tiny to have any influence; worse, it was mostly English-speaking and lacked any real connection with the masses. On the other hand, not just the political class but a strong element among Indian language-speaking intellectuals were not averse to searching for sources of belonging from within Indian traditions and linguistic resources. They kept on struggling on the dual fronts of the meanings of traditions on the on hand, and the meaning of "Indian" on the other. It wasn't just Gandhians and Lohiaites; even among communists, there was a recognition of the fact that traditions presented both things — elements of modernity and traditionalism, inclusive ideas as well as elements of exclusion. Moreover, while we need not hesistate to admit the mary failings of the elite and the political leadership of the post-independence era, in holding them responsible for the current crisis of Indian nationalism, we may be making the mistake of ignoring the deep risualey between Indian nationalism, we may be making the mistake of ignoring the deep risualey between Indian nationalisms and its

making the mistake of ignoring the deep ri-valry between Indian nationalism and its phoney alternative. Throughout the 19th cen-tury, a sense of identity rooted in othering and com/channel/0029Van2VRb6RGJOKH6oBd0I

instrumental unity without genuine belong-ing began to emerge as the language of col-lective action — particularly among the up-per castes. Religion was imagined devoid of religiosity, Cod was imagined without devo-tion, communities were imagined without empathy. These tendencies were alive and posed a challenge to Indian nationalism when it was nascent. While the patients posed a challenge to Indian nationalism when it was nascent. While the nationalist move-ment succeeded in bringing an inclusive Indian nationalism to the centre stage, the alternative, too, was shaping up all through the late 19th and early 20th century.

ternative, too, was shaping up all through the late 19th and early 20th century. India's elites—political, cultural and economic—were often torn between these two intellectual forces. While Mahatma Candhi (and Jawaharla Nehru) undoubtedly attracted many individuals from the upper castes, these same social sections were more favourably inclined to the narrow, vicious, macho and esculusionary European duplication of national-ism. Freedomin 1947 did not settle the deeper foundational dispute—it only postponed it. With occasional glimpses of superficial debates around Hindi and gau raksha in the 1960s, the simmering debate remained alive. For a variety of reasons of social turmoil and political deviations, the foundational dispute over the meaning of nationalism entered a over the meaning of nationalism entered a critical phase around the 1980s.

The larger point, therefore, is this: The au dacity of the project of Indian nationalism it self signified that it would have strong chal self signified that it would have strong chal-lenges and many inner hiccups. A fuller history of its rise and fall may include the fail-ings of its supporters and the inaction of its well-wishers but the limitations of the na-tionalist project lay in its very audacity. Because it was ambitious, it was difficult to realise and more difficult to sustain but easy to malign. Itsfall cannot be explained without realising that its ideological rival always ex-isted. What has happened in the past three to four decades is that Indian nationalism has been effectively replaced by the obnore.

to four decades is that insular hatomaism has been effectively replaced by the phoney. It's not that I/we forgot Indian national-ism, it was stolen. The story of Indian nation-alism should, therefore, not be a story of forgetting but the story of it being stolen

Setting sail on our own

Without the ability to build marine engines, India will be dependent on foreign suppliers, creating technological chokepoints



SANJEEV SANYAL AND ADITYA SINHA

INDIA IS MAKING bold moves in shipbuild-ing. The 2025 Union budget laid the foun-dation for a maritime resurgence, with mega clusters, a Rs 25,000-crore Maritime Development Fund, customs duty exemp-tions, and infrastructure status for large essels. Strategic tie-ups with global ship

tions, and infrastructure status for large vessels. Strategic tie-ups with global ship-building glants and major private investments signal serious intent to make India a top five shipbuilding nation by 2047.

To truly lead, India must build what powers the ship. A hull without an engine is just a shell, strategically dependent on foreign suppliers. Marine engines typically account for 15-20 per cent of a ship's cost and are central to its performance, emissions, and life cycle.

Presently, over 90 per cent of engines rated above 6 MW installed on Indian commercial and naval vessels are sourced from a concentrated group of five global manufacturers — MAN Energy Solutions (Germany), Wartsilä (Finland), Rolls-Royce (UIK), Caterpilla-MaK (US/Cermany), and Missubishi Heavy Industries (Japan). This oligopolistic concentration creates a technological chokepoint. Any disruption in diplomatic or trade relations, export control regime, or intellectual property licensing and first pair in marchant of the control regime, or intellectual property licensing and first pair in marchant of the control regime, or intellectual property licensing and first pair in marchant of the property licensing and first pair in the licensing can effect pair in the licensing and first pair in the licensing can effect pair in the l

diplomatic or trade relations, export con-tor legime, or intellectual properly licens-ing can effectively immobilise India's ship-building programme.

These engines are embedded with pro-prietary ECUs, closed-source control soft-ware, and IP-restricted components, mak-ing India dependent on foreign firms up just for procurement, but for diagnostics, updates, and even spares. This exposes India to rising export control risks. Key sup-plier countries have tightened regulations under frameworks like the EU bual-Use under frameworks like the EU Dual-Use Regulation, US EAR, and Japan's METI con-trols. These can be denied on national secu-

rols. These can be denied on national securily grounds at any time.

India has already begun taking steps in this direction. In April, the Indian Navy signed a Re 270-crores anction order with Kirloskar Oil Engines Limited to design and develop a 6 MW medium-speed mand develop a 6 MW medium-speed manife the second of the second security of the second seco tion in large vessels. These designs must optimise key parameters to meat metallite the properties of the properties of

gical chokepoints
precision, and component durability.
Marine engines operate under extreme
thermal and mechanical conditions.
Components must be engineered from alloys that can withstand high thermal gradients, resist corrosion in saline environments, and perform reliably over long duty
cycles. Materials like high-chromium
steels, nicle-based superalloys, and thermally stable composites are essential, but
India's capacity to produce such materials
in large quantities remains underdeveloped. This is where ware struggling in our
jet engines programme, too.
Third, Tribology', the science of wear,
lubrication, and friction, is another critical
bottleneck. High-efficiency marine engines
demand components with tailored surface
properties to reduce wear and frictional
losses over thousands of operating hours.
This necessitates advanced coatings like

This necessitates advanced coatings like thermal barrier ceramics, diamond-like thermal barrier ceramics, diamond-like carbon and plasma-psrayed composites, which require both sophisticated application techniques and precision control. Additionally, machining these heavy components requires large-format CNC equipment, micrometre-scale metrology systems, and ultra-tight tolerances, particularly for parts like crankshafts and cylinder blocks. India's ecosystem lacks scalable industrial integration.

Fourth, it's impossible to build next-gen marine engines when our top institutes still train students on outdated models. These belong in museums, not classrooms. With India hosting the world's largest ship-

belong in museums, not classrooms. With India hosting the world's largest shipbreaking yard at Alang, institutes should at least source decommissioned modern engines from there to upgrade training. To address these gaps, India must shift its strategy from relying solely on large public- and private-sector firms, which have struggled to deliver full-stack indigenous marine engines, and instead invest in a new generation of tech start-ups. Startups can bring agility, risk-taking and cross-disciplinary innovation. The government should facilitate this through targeted innovation missions, design-linked incentives, and dedicated funding for marine propulsion R&D, backed by. backed by.

ing for marine propulsion R&D, backed by defence and shipping sector demand. Institutions like IIT Madras can serve as an-

defence and shipping sector demand. Institutions like IT Madras can serve as an-chor nodes, supporting venture creation with lab-to-market pipelines, Start-ups must be supported not only with capital, but also through access to testbeds, IP sup-port, and public procurement guarantees. To develop large marine engines, India must build a dedicated propulsion design ecosystem. Equally critical is access to do-main-specific software for 3D modelling and mechanical design; combustion and thermodynamic simulation; structural and thermodynamic simulation and thermodynamic simulation and thermodynamic structural structural

Sanyal is member, EAC-PM and Sinha is a writer on state capacity, economic policy, and institutional reform.

Views are personal

LETTERS TO THE EDITOR

THAROOR'S AGENDA

THACOURS AGENTA THS REFERS TO the editorial, Congress vs Congress' (IE, May 29), Congress MP Shashi Tharroor has done a good job cruming the defence of India's position vis-à-vis Pakistan into an unqualified eulogi-ation of PM Marendra Modi. He has com-mended the Modi government for launching the 2016' "surgical strike" and breaching the Line of Control for the first time without hartines an awalid. "for the breaching the Line of Control for the first time without batting an eyelid—"for the first time "being the operative (and inacurate) phrase. Tharozo, now a global envoy, awards more marks to the Modi gavernment than the previous Congress governments on dealing with Pakistan However, he omits mentioning that the 2016 strike has the dubious distinction of having been publicised for the first time.

David Milton, Maruthancode

IMF & PAKISTAN

THIS REFERS TO the article, 'A vicious loop' (IE, May 29). The IMF approving a bailout package for Pakistan on the grounds of economic recovery, despite strong protests led by India, presents a worrisome picture. It has been bailed out 24 times since 1958. This raises serious

concerns about the efficacy of such bailouts. Currently, India's influence is limited in the 25-member board of the IMF, where, unlike the UN's one-country-one-vote system, voting rights are based on the economic size and contributions of the country — a system that has been repeatedly criticise for favouring richer Western countries.

Vaibhav Goval, Chandigarh

MUSK REPORT CARD

MUSK REPORT CARD

THIS REFERS TO the report, "Musk quits frump admin' (IE, May 30). The recent departure of Elon Musk from his advisory role in the federal government raises serious questions about the direction of administrative reforms and the nature of public-private collaborations. While Musk's strint was marked by ambitious goals to streamline bureaucracy, the results fell short. His aggressive approach to cost-cutting and staff reductions dashed with the broader political narrative of supporting American workers. His deep ties with China — critical for Tesla's global strategy—stood at odds with the adminimated properties. strategy – stood at odds with the admin-istration's tough stance on Beijing, Sanjay Chopra, Mohali

Conservative like us

European right can take lessons from the rise of cultural nationalism in India

The audacity of the project

signified that it would have

strong challenges and many inner hiccups. A fuller

history of its rise and fall may include the failings of its supporters and the inaction of its well-wishers but the limitations of the nationalist project lay in its very audacity. Because it was ambitious, it was difficult to

realise and more difficult to sustain but easy to malign.

Its fall cannot be explained

without realising that its ideological rival always existed.

of Indian nationalis

RAM RAJYA

EARLIER THIS WEEK, I was in Budapest to ad-

EARLJERTHIS WEEK, I was in Budapest to address the annual conference of the Conservative Political Action Conference (CPAC), a prestigious US-based group, It is influential in US politics and has close links with President Donald Trump and other Republican leaders. In Europe, CPAC also has an important role in creating a unified voice for conservative parties and leaders. This year's conference attracted major right-wing leaders from various countries in Europe and Latin America. Viktor Orban, the host country's Prime Minister, was there along with the Prime Minister of Georgia, several former prime ministers — including from the UK and the Czech Republic — several serving ministers. Members of the

several former prime ministers — including from the UK and the Czech Republic — several serving ministers, Members of the European Parliament (MEPs), MPs and commentators. President Trump delivered a brief video message. As one of the speakers, an Arab-origin Congressman from Arizona, US, commented, the CPAC has become the Mecca of European conservatism.

Through two days and dozens of speakers, the agenda of the conference revolved round the challenges faced by the European right from the opportunistic rainbow alliances that comprise traditionally centrist parties and liberal and left parties, whose sole aim is to prevent the rise of conservative politics on the continent. The last decade witnessed the unprecedented rise of right-wing parties in several European nations, including Italy, France, Cermany, the Netherlands, Sweden, Austria, Slovakia and the Czech Republic Hungary has been under the rule of Orban's right-wing

Fidesz party for the past 15 years.
In 2024, many political observers had predicted a right-wing-dominated European Parliament. However, the election results on June 6, 2024, did not provide that opportunity to the right-wing parties. They registered significant gains, but failed one emerge as the dominant force. They emerged as a strong voice and formed a pressure group called Patriots for Europe (PPE), which today boasts a membership of close to 100 MEPs.
The rise of the right seems to have rattled the liberals who control the EU. Leaders like Orban have been subjected to sewere critical processions.

The rise of the right seems to have ratted the liberals who control the EU Leaders like Orban have been subjected to severe criticism and his government was denied legitimate financial support from the EU on the flimsy grounds of citizens' rights and democratic downslide. When Orban took a firm stand against immigration, lightening borders and asylum laws, the EU leadership took the unusual measure of slapping a penalty of I million euros per day on his government. If the enthussam at the Budapest conference is any indication, such undemocratic and coercive measures by the EU dominated by liberal groups, seemed to have had the opposite effect. A renewed vigour and determination to take on challenges like lilegal immigration, radical Islam, globalism and wooke forces was palapible through the conference, which had the "Age of Patriots" as its main theme. Speaker after speaker retierated their.

theme. Speaker after speaker reiterated their determination to fight back against what many described as "liberal fascism".

Incidentally, I was the only non-Western speaker at the conference - this

highlights the fact that while Western liberals have reached out systematically to all corners of the world, Western conservatives have limited their activism to Europe and the Americas. I told the conference that while our politics may not be the same, we, too, share some of the conservative values like God, religion, family, sovereignty and patriotism. Like the Western conservatives, the Indian right, too, sees illegal immigration as a threat to national sovereignty and patriotism. Like the Western conservatives, the Indian right, too, sees illegal immigration as a threat to national sovereignty and woke liberalism as a danger to tradition and family values.

Unfortunately, in India, the initial decades after Independence witnessed the dominance of Western liberal political ideas like socialism and globalism. A Nehruvian consensus was created, championing these ideas through not only state institutions but also the media and cademia. Religiosity, cultural values, and national identity faced serious threats. Over several decades, a relentless battle was waged at the grassroots level to unshackde the country from left-liberal influence and build a strong cultural nationalist politics. It culminated in the election of the Narendra Modi government in 2014.

In the lat decade, the cultural nationalist project in India achieved significant successes. The Ram Temple in Ayodhay symbol-

project in India achieved significant suc-cesses. The Ram Temple in Ayodhya symbol-ises the defeat of pseudo-secular politics in the country, while the demise of Article 370 signified the death of liberal appeasement of separatism and radicalism. While Modi's market-friendly policies have catapulted India in just 10 years from the 11th biggest economy to the cusp of being the fourth biggest economy in the world, his zero tolerance for terror has resulted in the decimation of radical Islamist forces. The government has also clamped down on illegal immigrants, Indian media and academia, too, have turned nationalist and patriotic – substantially but not in full measure – pushing left-liberals to the fringe. In the wake of the recent terror attacks in Kashmir, Modi successfully mobilised the support of some liberals, who had been apologists for radical Islamists, in the war on terror. Understanding the nuances of India's ex-

eras, wino nad been apologists for radical slamists, in the war on terror.
Understanding the nuances of India's experience in the revival of cultural nationalist politics can help the Western conservative movement in its struggle against the left liberal onslaught. The Indian right may not fully subscribe to the agenda of their counterparts in the West. European conservatives use God and religion in the singular, while Indian nationalists we them in the plural. Indian nationalists believe in values like pluralism, statism and environmental activism, which may sound very much like the liberal agenda to the right in the West.

Yet, there is enough ground for engagement and dialogue. If the Western conservatives secure support from a lig country like

tives secure support from a big country like India, their power is bound to multiply manifold, Having India on their side is akin to hav-ing two Europes, four USAs or 140 Hungarys

The writer, president, India For

The Indian **EXPRESS**

RAMNATH GOENKA

BECAUSE THE TRUTH INVOLVES US ALL

DECODING GDP

Economy grows faster than expected in the fourth quarter. But near-term outlook remains unclear

HE INDIAN ECONOMY grew at a robust 7.4 per cent in the fourth quarter of 2024-25, surpassing most expectations. Growth for the full year has now been pegged at 6.5 per cent by the National Statistics Office. This is in line with the office's earlier estimates. Strip away net taxes on products and value added by the economy grew by 6.8 per cent in the fourth quarter. Moreover, notwithstanding the sharp pick-up in growth in the second half of the year — the momentum slowed down sharply in the second quarter when growth collapsed to just 5.6 per cent
— the Indian economy has actually slowed down significantly in 2024-25. Nominal GDP
has also come in at less than 10 per cent. And forecasts for next year aren't much brighter.

The sector-wise disaggregated data shows that agriculture continued to expand at a healthy pace, driven by favourable weather conditions and remunerative prices, which induced farmers to sow more area. Growth of 5.4 per cent in the fourth quarter has put the sector's growth for the full year at 4.6 per cent – higher than its long-term average. This bodes well for rural consumption. The industrial sector, though, slowed sharply, weighed down by manufacturing. The sector grew at just 45 per cent in 2024-25, down from 12.3 per cent the year before. Construction, however, continued to witness steady growth, expanding at 9.4 per cent in 2024-25, after growing by 10.4 per cent the year beforce. The services sector also witnessed a slight develeration, with trade, hotels, transport and communication as well as the financial, real estate and professional services segments growing at a slower pace than before. The GDP data also show that private communication grow at 72 per cent last year. This is difficult to reconcile with some of the commentary from India Inc., which, through the last year, voiced concerns over a softness in demand and a shrinking middle segment. There are also questions over the sustainability of the sharp pick-up in investments in the fourth quarter — gross fixed capital formation grew at 9.4 per cent as per the latest data.

The near-term outlook is unclear. There is a possibility that lower commodity prices will impact the deflator in the coming quarters. Some analysts expect investment activity to be weighed down by the prevailing uncertainty. But a combination of tax cuts and lower interest rates could help support household consumption — there are expectations of the BRI's Monetary Policy Committee out thing interest rates further with inflation likely to stay in line with the central bank's target. But expectations for a strong pick-up this year remain mutted. The central bank has pegged growth at 65 per cent in 2025-26 and the expectations of some analysts also range between 6.2 per cent and 6.5 per cent.

Manipur Standstill

Push for a return to popular government is understandable. But it must represent the interests of both Meiteis and Kukis

INCE THE IMPOSITION of President's Rule in Manipur on February 13, the state assembly has remained in suspended animation, following the BJP's failure to reach a consensus on a successor to former chief minister N Biren Singh. As the assembly has not been dissolved, it retains the possibility of being revived when the prevailing conditions allow for the formation of a government. Reflecting grow-ing discontent with the present standstill, a group of 10 NDA MLAs met Governor Ajay Bhalla at Raj Bhavan on Wednesday, urging the formation of a "popular government" in the state. They claimed the support of 44 legislators in the 60-member Assembly (one seat currently lies vacant). However, the revocation of President's Rule appears unlikely in the near future — almost 25 months into the ethnic conflict, it is telling that peace remains the immediate priority, not government formation.

On April 25, the same 10 MIAs, along with 11 other NDA legislators, had written to the Centre with a similar demand. Their push for a return to a popular government is understandable — after all, the BJP won a mandate in the 2022 Assembly election. The difficulty, however, lies in the nature of the proposed arrangement, which does not in-clude representation for the Kulsi-Zo communities. By their own admission, those who claim the support of 44 MLRs have not included the 10 Kulsi-Zomi MLRs — seven of whom were elected on BJP tickets. The supposed consensus behind the push for a return of popular government, thus, reflects a consensus among the Meiteis, but not be-tween the Meiteis and Kukis.

The Centre's hesitation to revoke President's Rule acknowledges the persisting instability in the state —illustrated by the urrest in Imphal less than two weeks ago between pro-testers and security forces, over the alleged instructions to cover the word "Maripur" on a state-run transport but; (Clief Secretary Prashant Kurar Singh has expressed regret and announced an inquiry into the incident). While there is some consolation in the fact that there has been no violent standoff between the two communities in recent weeks, significant challenges remain — of rebuilding trust, addressing grievances, and tackling the structural issues that lie at the heart of the conflict. An estimated 3,000 looted weapons remain unrecovered. Thousands of displaced persons remain in relief camps. Kukis and Meiteis continue to be segregated between hill and valley. Only an inclusive political process that brings all stakeholders to the table can offer a path to lasting peace. Without such a process, eve a well-intentioned return to a popular government risks another cycle of violence.

END OF A BROMANCE

Two plutocrats, with main character energy, came together to 'drain' the DC 'swamp'. A break-up was written into the story

ow far is Silicon Valley from the White House? In miles, about 2,800-odd. But as Elon Music's departure from the Donald Trump administration this week suggests, according to other metrics — such as ease of navigation — they are separated by light years, Music, as head of the new Department of Government Efficiency (DOCE), declared with corporate-style bombast that he would slash federal spending by "at least \$2 trillion". By the end of his 129-day tenure, the claims disappeared in a whimper. An analysis of the "wall of receipts" and the other data available on DOGE's website by BBC Verify revealed that "only about half of these... had a link to ... evidence." Turns out running a country is not the same as running a company.

The Trump-Musk bromance made sense — but only to a point. Two massively rich businessmen, both with "main character" energy, came together to "drain the swamp" of Washington, DC. Like any good bromance, it offered a memorable set of images: A chainsaw-wielding Musk, boasting about "slashing" budgets; Musk toting his son to of-ficial events at the Oval Office with Trump; the President boosting the First Buddy's elec-tric car company on the White House lawn. Yet, the relationship seems to have brought both parties bad fortune. The US government could soon be footing a long legal bill for the

layoffs and Musk's company, Tesla, has taken a massive hit in sales.

As the owner of several enterprises that require a complex system to work seamlessly, Musk should have understood the complexity of governance. His early exit from his DC sojourn, break-up with POTUS over a "big, beautiful bill", and complaints that DOGE was treated like a "whipping boy" make it clear that he did not. Ultimately, though, the reason for the public split (and spat) could be as simple as the fact that there was room for only one main character in this story. This round goes to Trump

The rankings mirage



For India, it's more important to focus on inclusive growth that makes its economy competitive

Sanjaya Baru

THE EDITORIAL PAGE

BN A BOUT of professional enthusiasm, the chief executive officer of NITI Augog, the Union government's policy body for transforming India, amounced that the indian economy had overtaken japan to become the world's fourthlargest economy, following the USA, China and Germany, Hei jumped the gun because, as NITI Augog member Arvind Virmani pointed out, this is likely to happen a few months down the road. With a norminal GDP of \$4.187 trillion, India is set to move ahead of Japan's GDP of \$4.186 trillion by the end of 2025.

However, as many have pointed out, the wast gap between Japan's per capita GDP of \$33.900 and India's per capita GDP of \$2.880 sets the two apart. India remains a low-middle-income economy, a developing economy with a modest per capita income but demographics that will sustain the growth process. Japan is a developed, if an ageing, industrial and trading power.

Japan is a developed, if an ageing, industrial and trading power.

The sustained growth of the Indian economy over the past three decades, with its ugs and downs, has, without doubt, slowly but surely increased the size of the economy, Way backin July 1991, the then finance minister of India, Mammohan Singh, told Parliament, prefacing his forecast with Victor Hugo's famous words that "no power on Earth can stop an idea whose time has come", that the emergence of India as a major economic power in the world happens to be one such idea.

It became an idea that gained international recognition a few years later when the British historian Angus Maddison published his masterly survey of the world economy pointing to the resurgence of China and India. Maddison's classic study of The World Economy (OECD, 20023) made the point that in 1700, China and India accounted for almost half the world income and that two centures.

half the world income and that two centuries of colonialism, combined with the fact that the Industrial Revolution had occurred n in Europe, contributed to the decline of these

ancient and large Asian economies.

The Maddison study kindled hope in Asia that China and India were on the way to recover their lost space in the global economy and that the 21st century would once again Join FREE Whatsapp Channel https://whatsap

Good diplomatic and economic relations have, in part, contributed to a benign response in Japan to the news of India's rise. Equally, the fact that India in no way poses any challenge to Japan, either as an economic competitor or as a geopolitical rival, would also explain the subdued reporting of the IMF news When China overtook Japan, the former was viewed as a significant competitor in the global market as well as geopolitical rival. Exportdependent Japan viewed with concern the rise of China as a global trading power. India, on the other hand, is still not viewed as a competitor in the trading world, much less a

geopolitical rival. /channel/0029Van2VRb6RGJOKH6oBd0F

be an Asian century. Since China was by then rising at a faster pace, it overtook Japan in 2010. This event happened soon after the transatlantic financial crisis (usually referred to as the global financial crisis), of 2008-09. The crisis had helped China overtake Japan and Europe and reduce the gap with the USA. It created a global flutter and marked the turning point in China's global rise. It is instructive to recall that in 2010, China overtook Japan when Japan's GDP was still \$5.474 trillion.

China's emenence as the world's second-

GDP was still \$5.474 trillion.

China's emergence as the world's secondlargest economy sent Japan into a funk, Japan
had already lived through a decade of low
growth and low expectations, and China overtaking it became a wake-up call. It would not
be incorrect to speculate that the return of Shinzo Abe as prime minister of Japan in 2012 (his first term of 2006-07 was truncated by poor health) was partly on account of Japan's yearning for a strong and charismatic leader

focused on economic revival.

Abe began his second tenure launching Abe began his second tenure auruching the 'three arrows' programme that came to be known as 'Abenomics' — of aggressive monetary easing, liberal fiscal policy and structural reforms aimed at enhancing productivity and growth. This gave Japan hope that, despite being pushed to third place by China, it could still remain a globally important econgrup.

China, it could still remain a globally impor-tant economy.

The exit of Abe, followed by a string of lack-lastre leadership and the challenges posed by the return of President Donald Trump, have depressed Japan once again. To add to its wees, Germany recently overtool; Japan, becoming the third-largest economy, pushing Japan to fourth place. Germany, too, has been slowing down, and so Japan and Germany could see themselves swapping places from time to time, depending on their relative perform-ance. Also, recall that China overtook a still-growing Japan, India is overtaking a slowing growing Japan, India is overtaking a slowing

ance, Asso, recaul truch overcook a sun-growing Japan, India is overtaking a slowing Japan and a slowing Germany. It is against this background that news has come from the International Monetary Fund that India is now poised to overtake Japan. It is interesting to note that while there was much hand-wringing and widespread concern in

Japan when China overtook it, the news about India has not made any impact in Japan. There was, according to my friends in Japan, little news coverage and no expression of any concern. This could be on account of the fact that while China is viewed as a hallenge in Japan, India is viewed as an opportunity.

Good diplomatic and economic relations have, in part, contributed to a benign response in Japan to the news of India's rise. Equally, the fact that India in no way poses any challenge to Japan, either as an economic competitor or as a geonolitical rival. would also exolain the

to Japan, either as an economic competitor of as a geopolitical rival, would also explain the subdued reporting of the IMF news. When China overtook Japan, the former was viewed as a significant competitor in the global mar-let as well as a geopolitical rival. Export-de-sendent base is not fully reported the pendent Japan viewed with concern the rise of China as a global trading power. India, on the other hand, is still not viewed as a com-petitor in the trading world, much less a

petitor in the trading world, much less a geopolitical rival.

It is still possible that exchange rate changes, new challenges in global trade and seasonal performance of the three conomies — India, Japan and Germany — may keep the rank race alive for some time. After all, the gap between the three is not much. If the Indian economy forges ahead over the next few years and crosses the \$5 trillion mark, it would place some distance between itself and Japan and Germany. If not, these rankings could keep changing.

What is, however, certain is that once India clearly establishes itself as the third-largest economy, it will remain in that place for a long time to come, given the distance it has to travel to catch up with China, whose nominal GDP is currently around \$15 littlilion. With the Us and China in a race for economic space and geopo-

China in a race for economic space and geopo-litical influence, India's best bet would be to focus on its own economic performance and ensure that it is able to sustain an inclusive growth process that makes the economy more competitive and improves peoples' lives.

The writer is founder-trustee, Centre for Air Power Studies and distinguished fellow United Service Institution of India



Paying More For Less

As user growth on digital platforms plateaus, loyalty is mined for profit

MRINALINI NAIK

THE GROWTH OF India's digital ecosystem has transformed how millions of people commu-nicate, shop, learn, and entertain themselves. nicate, shop, learn, and entertain themselves. Now, a growing number of users are facing a strange irony: The more dominant a platform becomes, the worse the experience gets. E-platforms once promised access, speed, convenience, control, a diverse selection and affordability. For a while, they delivered, But

convenience, control, a diverse selection and affordability. For a while, they delivered. But somewhere along the way, the user became less of a priority and more of a target. What we're witnessing now is the decay of digital platforms, a process called "enshittification". Coined by journalist Cory Doctorow, the term refers to how online platforms degrade over time: First serving users, then business clients, and eventually just themselves.

Recently, Amazon notified its members that starting June 17, Prime Video will include advertisements, and if the members want to have an "ad-free experience" on the OTT platform, they'll have to pay an additional fee. A few days ago, Zomato Coid and Swiggy One updated their terms to include "rain-surge fees" for premium subscribers. These are not isolated incidents but part of a deliberate business model shift. As user growth plateaus, platforms start optimising for revenue per user. Loyalty is no longer rewarded, it's priced. Coupons dry up for returning customers, free delivery becomes clusive, and core features are horstled behird new reason.

Coupons any up for enturning customers, nee delivery becomes clusive, and core features are thrortled behind new paywalls. This phenomenon is visible across India's digital ecosystem. Platforms like Spotify and YouTube constantly flood users with unskip-pable ads. Users are confronted with an esca-join FREE Telegram Channel https://t.me/+j.UYK

This phenomenon is visible across India's digital ecosystem, Platforms like Spotify and YouTube constantly flood users with unskippable ads. Users are confronted with an escalating mix of non negotiable 'platform fees' or 'handling charges' on every order. If this sounds like paying more to get less, that's because it is. Once platforms scale to achieve market dominance and user dependence to become indispensable, monetisation intensifies. Charges once optional become default.

lating mix of non-negotiable "platform fees" or "handling charges" on every order. If this sounds like paying more to get less, that's be-cause it is. Once platforms scale to achieve market dominance and user dependence to become indispensable, monetisation intensi-

fies. Charges once optional become default

become indispensable, monetisation intensi-fies. Charges once optional become default.

Enshiftication is not just limited to fees or the push for paid subscriptions; it's about all the systemic processes that degrade user ex-perience. One such process is device-based price discrimination done by platforms. In 2025, a storm of user complaints and reports revealed that many platforms, specifically quick commerce and ride-hailing apps, were charging more tol'hone users than to Android users for the same route and time, based solely on device data. This profiling, based purely on encoded purchasing power, occurs without consent, fransparency, or recourse. Another issue is that platforms are increas-ingly nelying on dark patterns, that is, manip-ulative UI/DX, to trick users into unwanted choices: Creating "false urgency", where false limited stock countdowns push users into hasty decisions; "basket sneaking", which in-wolves adding unwanted items to the cart or auto-ticking donation bowes without consent; "drip pricing", where hidden charges appear only at checkout; "nagging", where platforms send continuous notifications or requests to purchase unintended goods or services; and "subscription trap", making cancellation of paid membership difficult. These patterns are inherently opaque and designed to mislead. The Central Consumer Protection

Authority issued guidelines under the Consumer Protection Act, 2019, identifying a range of such manipulative practices. However, the non-binding nature of Annexure-1 offers guidance and not interpretation of the law. This provides a loophole for the digital platforms. India's legal framework for digital platforms addresses several important areas through the Consumer Protection Act, 2019 and E-Commerce Rules, 2020. These mandate transparency in pricing and probibit unfajir trade practices; the Information Technology Rules, 2021 require platforms to publish terms of use and establish grievance redress mechanisms; the Digital Personal Data Protection Act, 2022, prohibits practices like predatory pricing and market dominance abuse. But none of these laws directly regulate user experience or interface design and they address harm after it occuss. What India needs is a forward-looking, exante regulatory approach. Like the EU's Digital Markets Act, the proposed Digital Competition Bill in India, if passed, will address issues like self-preferencing of products by platforms, restricting users from third-party applications on their core digital services or tying-bundling of none-ssential services to those demanded by users. But India still needs legal frameworks on transparency standards, clearer definitions and binding regulations on dark patterns and mandatory UX audits for large platforms.

The writer is advocate Supreme Court of India

INDIAN EXPRESS

MAY 31, 1985, FORTY YEARS AGO

INDIA-US TALKS

India has been signed.

A NEW CHAPTER of cooperation bet A NEW CHAPTER of cooperation between India, the world's largest democracy, and the United States, the world's most powerful democracy, is expected to begin with the visit of Prime Minister Rajiv Gandhi to the US in the second week of June. US arms sup-plies to Pakistan — a longstanding irritant in Indo-US relations — are expected to figure prominently during the talks Gandhi will have with President Ronald Reagan. Much ground has already been persent with reground has already been prepared with re-gard to improved bilateral economic rela-tions. A memorandum of understanding on the transfer of technology from the US to

IRAQ STRIKES IRAN

IRAQ SAID ITS warplanes attacked a "very large naval target" — a term applied in the past to large merchant ships — near Iran's main oil export terminal at Kharg island in the Gulf. A spokesman said the planes scored an accurate hit and returned safely to base. The raids marked the fourth straight day in the latest flare up between the two belligerents, locked in a border war since September 1980.

BRITAIN ON TAMILS

IN THE WAKE of protests by several Labour MPs, the UK government has said that it will not be harsh on Sri Lankan Tamils who are

being driven to Britain by the trigger-happy Sinhalese troops, but it insists that represen-tations on behalf of those who are not being allowed in will have to be limited to 24 hours. Earlier, the practice was that an MP could take up a case on behalf of a person denied entry into the country within a month or two.

STORM NEARS GUJARAT

ABOUT 500 VILLAGERS were evacuated From the coastal villages of Junagadh district in view of the impending cyclonic storm which could strike the Gujarat coast. According to the latest weather bulletin, however, the cyclone had moved north and was beading to the strike of the cyclone had moved or the horizont. was heading towards Sind and Pakistan.

HARNESSING SCIENCE

Union agriculture minister Shivraj Singh Chouhar

There can be no Viksit Bharat without Viksit Krishi...agricultural production has reached an all-time high in this year thanks to the hard work of farmers and scientists

Slow but steady

Easing inflation, lower interest rates, and more disposable income should boost consumption

growth in the March quarter, the Indian economy grew at a modest 6.5% in 2024-25, the slowest pace in four years. Although the gross value added (GVA) rose at a decent 6.8% or 30 y-0-yin Q44725, the annual momentum slowed to 6.4% — also the slowest in four years. One must appreciate that the economy has shown resilience in the face of fairly high inflation, tight liquidity, and high interest rates. Consumption demand has been particularly weak in urban India; in fact, the private final consumption expenditure slumped to a five-quarter low of 6% 9.0-y in the fourth quarter, despite the Kumbh factor. To be sure, some of this could reverse in the current year as the price rise is reined in, the cost of money falls, and tax breaks leave more disposable income for many. However, it's not clear how the global economy and global trade will fare and how India's export sector will perform.

The Indian economy last year got a big push from the much smaller import-export gap than in 2023-24 with the gap being positive in Q4. However, it's uncertain whether in the current year the economy will enjoy this advantage. Much will depend on US import tariffs and whether the US economy slips into a recession, and to what extent that impacts exports of both merchandise and services. As is known, the export sector generates huge employment and, therefore, disposable

impacts exports of both merchandise and services. As is known, the export sector generates huge employment and, therefore, disposable incomes. Already, corporate India is cutting back on employee expenses — a study of 3,035 companies and banks shows that in 2024-23, employee expenses increased by just 796, the slowest pace in four years. Moreover, private sector capex remains sluggish and is unlikely to pick Moreover, private sector capex remains sluggish and is unlikely to pick up meaningfully in the near term; at 7.1% last year, gross fixed capital formation increased at the slowest pace in four years. Manufacturing activity continues to remain subdued and sectors such as trade, hotels, and transport — again employment-generating — are also not performing as one might have expected; in fact, very surprisingly, despite the Kumbh mela this segment grew at just 6% y-o-y in the March quarter, the slowest in three quarters. Economists attribute this to the muted urban demand cause by a slow rise in incomes.

All of this casts a shadow on both job creation and consumption. However, the good news is that prospects of a good monsoon and a humper har-

Autor this cases a snadow on open detection and consumption. How-ever, the good news is that prospects of a good monsoon and a bumper har-vest will boost farm incomes and consumption. The agriculture sector per-formed reasonably well last year growing at 4.6%, albeit on a very favourable base. Also, sectors such as construction are doing well having grown at over 9% three years in a row. That said, the start to the current year has been slow with April sales of autos and cement volumes being

year has been slow with April sales of autos and cement volumes being lacklustre, experts believe that the improved growth in exports is probably due to front-loading ahead of the imposition of steeper tariffs by the US. While a 6.5% growth rate is not to be sneezed at, the fact is it should not be taken for granted in an uncertain world. With inflation expected to remain at sub-3.8% in the current year, the Reserve Bank of India has room to cut policy rates by another 50 basis points, taking the terminal rate to 5.5% It must also facilitate transmission of these cuts into system rates by ensuring liquidity is ample. The government too needs to spend more to ensure the momentum does not flae. spend more to ensure the momentum does not flag.

Is outbound FDI rising at the expense of domestic capex?

INDIA'S NET FOREIGN direct investment (FDI) inflows merit serious attention as they dramatically plunged to \$3.953 million last fiscal. This is due to record levels of repatriations and disinvestments and rising outbound FDI despite healthy gross inflows. Net FDI inflows were as high as \$44 billion in FY21 and have been sharply reducing since then, especially over the last two fiscals. While repatriations and dividends have been commented upon, less attention has been paid to india inc's investments abroad which nose almost threefold to \$2.9 billion in FY22 from \$11 billion in FY21. The concern is that Indian firms are expanding globally — which should be well-comed — while they are he sinant to invest domestically, at a time of adverse global headwinds due to policy-related uncertainties, a private sector-led investment push will no doubt bolster India's GDP growth but there is no evidences of aro fa virtuous capex upswing. In this millieu, India's outbound FDI is intriguingly gathering strength. The question naturally is the whys and the wherefores of this process. The global expansion of India's conglomerates, however, is not of recent provenance as in that 19 405 the Adity Bild Group made joneering forays into Thalland and other economies of the Association of Southeast Asian Nations (ASEAN) Analysts consider this as part of a first wave of investments by India Inc during the pre-liberalisation era. The group later targeted the US with investments of \$15 billion including a \$4-billion green field expansion plan currently underway, Post-ilberalisation, the Pata Group acquired London-based Tetley Foa in 2003, Anglo-Dutchstred manufacturer Corus in 2007, and Jaguar and I and Rover in 2008. Pharma and Information the Pata Group acquired London-based Tetley Foa in 2003, Anglo-Dutchstred manufacturer Corus in 2007, and Jaguar and I and Rover in 2008. Pharma and Informations of the Association of the Association for outbound FDI are tax were investments for outbound FDI are tax were investments for outbound FDI ar



It would betempting to infer that India's investments in the city-state are a base to foray into the rest of ASEAN. But that doesn't seem to be the case as there is a receding FDI footprint. The Tata Group, for instance, has side from its manufacturing presence. It took over NatSteel in Singapore in 2004 and Millennium Steel in and business commentator based in New Dehi Desire and the singapore in 2004 and Millennium Steel in the radio based in New Dehi Desire and the singapore in Spick up trucks in the ragion, Tata Motors chose Thailand for its entrypoint in radio and the substance of the singapore in Spick up trucks in the radio and the substance of the singapore in Spick up trucks in the radio and the substance of the singapore in Spick up trucks in the radio and the substance of the singapore in Spick up truck with the continued subdued growth in private investments. So, too, does data of the Centre for Monitoring Indian Economy. The portents for an upswing in the private capex cycle are not bright. The Union finance ministry's latest monthly review cites the results of the ministry of statistics and programme implementation's forward-looking survey on private sector capes investment, according to which intended capes is lower in FY26 than in FY25 — attributed to a "cautious approach by respondents in declaring future investment plans". Corporates are not driving overall growth as there is still a lot of excess capacity in the system as the demand environment remains highly challenging.

In manufacturing, capacity utilisation rates rose marginally to 75% in Q3 FY25 from 74.7% a year earlier. They need to go up much further to a point where private industry requires additional capacity. Private investments also depend on a more stable policy and regulatory framework. Acyclical upswing cannot be set in motion so long as investors, both domestic and foreign, face serious difficulties in doing business on the ground, especially in the various states. So, while the animal spirits of findia in cremain depressed f

A BRIGHT OUTLOOK

GROWTH OF 6.5% OVER 9.2% IN FY24 REFLECTS A STRONG FOUNDATION; DEMAND SIDE MUST BE WORKED OUT

GDP numbers augur well

HENATIONAL STATISTICS
Office's (NSO) estimates on
GDP for FY25, at 6.5%, are
the same as the second
advance estimates and
hence does credit to its forecasting skills. Thus, there are no surprises for the market, and it will be business as usual. The NSO's accuracy in forecasts need to be commended given that the exercise is quite mammoth due to the considerably large unorganised sector in the econym

exercise is quite mammoth due to the considerably large unorganised sector in the economy.

The internals for the year as well as the fourth quarter are quite impressive, especially as the last quarter has posited growth of 7.4% All through the year, various high-frequency indicators such as goods and services tax collections, e-way bill issuances, purchasing managers' index, and export of services have been sending very positive signals. The high base effect of 9.2% growth in FY24 was supposed to bring down the rate, so 6.5% is an impressive number.

Agriculture has been the big winner with growth of 4.6%, which suggests a good monsoon resulting in a stable kharif crop followed by a similar rabi crop can keep the rural economyticking. In fact, this is a necessary condition for attaining sustainable growth over a longer period. As the monsoon forecast for FY26 is positive, indications are that rural consumption should continue to tick this year. This would be the supply side of the sector, and given the increase in minimum support price across the board for the kharif season — It will probably be replicated for rabi crops—higher output should result in higher income for farmers.

Manufacturing, however, has been the only segment that has registered rel-

MADAN SABNAVIS

atively much lower growth than the pre-vious year. Growth at 4.5% comes over 12.3%, so there is a big base effect, But it is also known that corporate profits have been under pressure this year due to demand-side factors. In fact, the man-

todemand-side factors. In fact, the manitacturing story is quite skewed with infra-oriented industries like steel, cement, engineering, and energy faring well while consumer-oriented ones delivered a mixed performance. High inflation has been the main factor militating against demand. With households spending more on food items, there is less money left for discretionary spending the state of Right now, the jobs are

concentrated in construction, logistics, retail, etc. that do not for discretionary spend ing. Thus, the fast-mov provide the ing. Inus, the fast-moving consumer goods sec-tor has been particularly affected. This will need monitoring in FY26. Revival of consumption is expected with the govern incentives on the tax front. discretionary consumption

incentives on the tax front.

Related to the slower growth in manufacturing is the slight decline in the gross fixed capital formation rate at current prices from 30.4% to 29.9%. Here too, investments made by companies have been rather narrow-based with industries like power, steel, and cement showing an increase in the face of good demand. Thus, both manufacturing

inexorably linked in FY26.

The construction sector has been one of the drivers of growth — it reflects both the contribution of housing as well as the government push on capex. The housing sector has gone through difficult times with interest rates being high over the last two years. There was an uptick in premium houses while the middle class stayed away. Government spending on roaks while the middle class stayed away. Government spending on roaks and irrigation works has been the major drivers of construction, which has atd on not kept growth ticking.

kept growth ticking. Given the spare capacity, there is immense potenrewithal for high

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consumption

all in FY26.

The services sector has
registered growth of 7.2% against 9%
last year. The trade, transport, hotels, and
communication segment has grown by
6.1% which does not adequately capture
the high level of spending by people on
"services experience". There has been a
spike in spending on travel tourism and
experiences, which should have resulted
in higher growth in the segment. Financial services and real estate also registered
lower growth of 7.2% on a high 10.3%,

mainly due to the slow growth in deposits and credit in FY25. The movement of savings to the capital markets did come in the way of deposit growth. Public administration and other services maintained 8.9% growth with both the Centre and

a.5-ye grown with noon the Centre and states meeting revenue budgets. The fact that the Indian economy clocked growth of 6.5% over 9.2% (FY24) reflects a rather strong founda-tion. This would provide sufficient buffers to counter the global uncertainty building up periodically. Being a largely domestic-oriented economy, maintain-

domestic-oriented economy, maintaining growth in the region of 6.9% would
not be a problem. The challenge would be
to move to the "96-plus territory.
For that to happen, the demand side
must beworked out. Sof art, the focus has
been on the supply side, where the
Reserve Bank of India has been lowering
rates to pash up investment. But investment is a result of higher capacity utilisation rates that can be achieved only
when consumption in reases and comwhen consumption increases and com-panies need to infuse fresh capital. This process normally takes at least one or two years. It can be hoped that FY26 will pro-

years. It can be hoped that FY26 will proide this initial push to consumption.

The heartening fact is that official
data hints at the creation of more jobs.
But they need to be in high-value production and services where income is
typically higher. Right now, the jobs are
concentrated in construction, logistics,
retail, etc. which do not provide the
wherewithal for high discretionary consumption. As the economy keeps growing, this matrix will change, it can be
noped that overall growth will be more
broad-based with the manufacturing
sector providing a major push.

Bracing for face-off in Dhaka

early and inclusive elections — diplomatese for



India, as the responsible and interested neighbour, must ensure that Bangladesh sorts out its own mess without causing a humanitarian crisis

AMIDSTTHE DRAMA of a tense power struggle between Bangladesh's interim government and the army and multiple political and humanitarian crises, the former South Asian "tiger economy" is experiencing a continued economic meltdown.

omy" is experiencing a continued eco-nomic metidown.
For India, its nearest neighbour, both he political crisis and the economic dis-aster in the making can have huge reper-cusions which need to be understood and managed in New Delhi's own self-interest.
The Banghadesh army is patrollings the streets of Dhala a fire a stand-off-with the Muhammad Yunus regime, sparked near part by the latter's desire to grant a passage — through Chittagong to Myanmar. Rakhine state — to the United Nations at the insistence of US diplomats. The army ferast the "humanitarian cor-ridor" through which supplies would be taken to the Arakanese people who have been nebelling against Myanmar will draw into a regional war in which it sees no stakes for Bangladesh. It also deeply seents suspected efforts to change its power structure by replacing its chief, General Waker uz Zaman, with an ambi-tious pro-lsiamist staff officer favoured by Yunus and by placing a newly appointed National Security Adviser who possibly holds an American citizenship over him the chain of command.

nootsan Antercan cruzensin povernimu in the chain of command.

To force out the interim government, the army has made it clear that major issues like the Arakan corridor can only be decided by an elected government and that must be put in place by end-December, a call which seems to have unnerved Yunus.

Attenuts by the former banker who is

Attempts by the former banker, who is now on a tour of Japan to garner political support for his "fight" with the army, have

not proven successful. While one major party — Bangladesh Nationalist Party (BNP) — has cold-shouldered him, the other — Awami League (banned by the Yunus regime recently) — has vowed to unseat him. Together, these parties have traditionally accounted for two-thirds to three-fourths of all votes cast in any election till date in Bangladesh. All other parties including the Bangladesh lamaatteisami and the newly formed 'king's party' of pro Yunus students whose supporte banks on pale into insignificance in terms of popular mandate. To add to Yunus's woes, the BNP has supported the army's demand for quick polis and an immediate road map for elections. The army tisted flus stated that it will no longer tolerate the anarchies it unation has the color of the party of

into which the nation has slid and has started crack-Bangladesh precariou not right down dang ous, and which were so

ous, and which were seen by many a patronised by the new crop of Islamist parties. Many members of former terror modules who were freed during the "August revolt" had made common cause with these armed made common cause with these armed gangs, though many others who were ide-ologically committed have been waiting in silence to start a new campaign which could cause untold misery in both Bangladesh and in nearby states of India. Popular support for the "Gana-abukhyan" "People's movement, which saw Sheikh Hasina exiting Dhaka in August last year, is also fast fading with people fed upwith rising unemployment,

industrial decline, attacks on women and buildozing of symbols of the country's liberation waropenly mouthing support for the previous regime.

Over 140 factories have shuttered or been burnt down. Labour strikes over unpaid wages coupled with energy shortages have disrupted production and forced buyers of global readymade garment brands to bunt for other supply sources, leading to a boom in textile tradeout of India, Vietnam, and Cambodia. Nearly 150,000 workers have lost their jobs so far in Bangladesh, with women being the biggest losers. Bangladesh's GDP growth fell to 5.78% in in neclusive and ShP's Cay Shi FYZ'S, the low-roles and ShP's elections in 54 years. External debt has doubled from the string of the string

India has said it wants stating that it supports the army's and BNP's debt repayment 25%to\$3.5billi

first 10 months of FY25, straining first 10 months of FV25, straining reserves. Foreign direct investment has declined sharply to \$104.33 million in let July-September quarter of FV25, the lowest in six years. As a result, the Dhaka Stock Exchange has been in free fall since the August regime change, and has seen it is index contracting by a fifth during these 10 months.

The problem for India is, of course, that with an anti-India, anti-liberation was regime in Dhaka one could face a war regime in Dhaka one could face a

war regime in Dhaka, one could face a "pincer attack" from terrorist groups going on the rampage possibly with sup-

port from the state apparatus of both Pakistan and Bangladesh. In a worst-case scenario, Bangladesh could make common cause with Pakistan and/or make the "pincer attack" scenario take on an even more sinister shape which could see India preparing for an extremely expensive three-front war. The industrial decline of Bangladesh and the concomitant chaos there is also and the concomitant chaos there is also

court see Thins preparing to a certificate of the control of the c Dhaka, without causing a fresh human

LETTERS TO THE EDITOR

Exit Elon Musk

Elon Musk's recent departure from his advisory role in the US government raises serious questions about the direction of administrative reforms and the nature of public-private collaborations. While Musk's stint was marked by ambitious goals to streamline beneaucracy, the results fell short of expectations, with widespread disruption and little sustainable progress. His aggressive

approach to cost-cutting and staff reductions clashed with the broad political narrative of supporting American workers. Moreover, the tension between Musk's business tension between Musics business interests and policy positions became increasingly visible. His exit signals more than a personal shift in focus; it underscores the limitations of bringing entrepreneurial zeal into a complex, often contradictory, political landscape. Reforming government landscape. Reforming government operations is a noble goal, but it must

and an understanding of broader social contract. —Sanjay Chopra, Mohali

Sports push needed

Apropos of "Are we game for collaboration" (FE, May 30), India is still lacking the sports resources and enthusiastic spirit that is needed to win a big haul of medals in Olympics and other big-ricket competitions, Improving the sports ecosystem will

New Delhi

take investments in state-of-the-art facilities and developing infrastructure with public-private partnership in educational institutions with a robust curriculum for sports. Talent curriculum for sports. Talent identification programmes must spot and nurture budding young talents with refined coaching support. Above all, political intervention will hinder the selections of talented players.

—NR Nagarajan, Sivakasi

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electronics of the smart "bomb" (it may be an unmanned aerial vehicle, or a missile) through elec-tronic counter-measures (ECM) to confuse it. Also the defence tries to interdict missiles in mid-flight by hitting them with other missiles (shells, nockets, and missiles). It gets

more complicated with trying to work out electronic signatures and

work out electronic not and a profiles.

The four-day faceoff between India and Pakistan saw both sides deploying lots of state-of-therat stuff that depended on location. Both flew manned planes only from within their own borders and launched missiles and droner and launched missiles and droner at cross

Both flew manned planes only from within their own borders, and launched missiles and drones beyond visual range at cross-border targets, while using their own air defence systems to literactic the opponents' "slings and arrows". Future conflicts will also see versions of this playing out. At some stage, "air superiority" will come to mean the ability to knock out satellites.

While the military tech is more sophisticated, the civilian tech—il coation plus drones — is good enough for military Juguad. Urraine's cottage industry produces nearly a million military-capable drones a month. The Houthis also use jury-rigged drones with open location systems to great effect. It may not be too long before the product of the control of the c

reaction speeds are useless in a 21st century war fought this way. All air

century war fought this way. All our defence systems and most missiles, drones and loitering munitions are likely to be Al-driven. An arsenal of autonomous weaponry sounds cool but it could have some very

A lot of people are worried about the level of United States interest rates. "I think we should be afraid of the bond market, "billionaire investor Ray Dallo said last week. To other observers, the bond market is "barfing." "shaking Wall Street." "sendinga warning to Congress." "worrying that something may be breaking beneath the surface" of usu tolain "breaking."

surface" or just plain "breaking."

I don't see what all the fuss is about.

normal interest rate environment.

For perspective, the benchmark 10-year Treasury yield, at 4.5 per cent, is more than a percentage point lower than its historical average of 5.6 per cent since the 1950s. Even if you remove the period from 1950s. Even if you remove the period from 1980 to 1985 in which the 10-year yield was persistently above to per cent, that histori-cal average declines only modestly to 5.1 per cent, still well above the current yield. Nor is the recent interest rate volatility all that unusual. Yes, the 10-year yield has bounced around a bunch since the White House's tariff announcement on April 2. But similar — and discountered.

House's tariff announcement on April 2. But similar — and always temporary — spikes in volatility were common through-out the 1970s and 1980s and have occurred regularly during every decade since then, including the current one.

So, why all the griping about bond elds? One reason may be that people en't used to a normal interest rate evironment. The US only recently low rates — the 10-year hasn't topped 5 per cent since before the 2008 financial crisis.

Also, there's always something to dis like about interest rates. When rates were a

like about interest rates. When rates were at historic lows for more than a decade after the financial crisis, critics complained that cheap debt would encourage risk taking and overinvestment in sectors that rely heavily on borrowing, such as real estate and private equity. They were right.

A normal interest rate environment should help wring out those distortions. It should also encourage the federal government to reckon with its own excesses. Deficit spending made sense when money was cheap, particularly for investment or to bolster the economy during the Covid pan-

economy is growing, policymakers a trim the deficits and shrink the US's h cally high debt relative to gross don product.

If they don't, interest rates could rise to truly concerning levels. The Donald Trump administration is taking two big gambles on rates. One is the budget bill making its on rates. One is the ounget on making its way through Congress, which, in its current form, could add as much as \$5 trillion in deficits over the next to years. The White House is betting that growth will more than offset additional deficits and bring down debt-to-GDP. A second gamble is that tar-ifs won't kick up inflation and thereby lift interest rates, either because the threat of behelve leake a sult with reaches early to be east. higher levies will ultimately result in lower trade barriers or because companies will internalise the cost of tariffs rather than

the 10-year yield drifts above its historical the 10-year yield cirrits above its historical average and approaches, say, 7-per cent or 8 per cent, which would still be well within a normal historical range, that will be a sure sign that the market has lost confidence in Congress's ability to manage the debt or the White House's ability to execute a tariff war without stoking inflation.

As things stand, though, interest rates send not large inflation.

need not interfere with sound fiscal policy. If the US can limit deficits to 3 per cent of GDP, as Treasury Secretary Scott Bessent has pledged to do, debt-to-GDP should

has piedged to do, debt-to-GDF should drop to 80 per cent by 2050 from closer to 120 per cent today.

That assumes nominal GDP growth of 5 per cent a year, comprised of the Federal Reserve's 2 per cent inflation target and 3 per cent real growth, or some combination of the two. he two.
Interest on the debt as a percentage of

the federal budget would also decline sig-nificantly, even if rates stay where they are. Still, if the current 10-year Treasury yield pass them onto consumers. seems too high, consider that there are
The bond market will be the judge. If good economic reasons why it has aver-

aged around 5 per cent historically. The base of that rate is inflation, which, if things go according to the Fed's plan, will run somewhere in the range of 2 per cent to 2.5 per cent long term. The Fed also aims for a short-term interest rate that is about 0.5 to 1 percentage point above the inflation rate, which closely matches the historical average yield on three-month Treasury bills. To lend for longer, investors usually demanda premium, which has averaged 1.6 percentage points for 10-year Treasuries relative tage points for 10-year Treasuries relative to T-bills since the 1980s. The sum of those variables is a 10-year yield in the range of 4 per cent to 5 per cent, precisely where we

retoday.

The current 10-year yield, in other roords, is a sign that the bond market is unactioning normally, it may not stay that ray given the gathering risks, notably redible estimates that deficits will continue to run well higher than 3 per cent of GDP. But for now, there's no reason to fear



The power of geolocation



VIEWPOINT **DEVANGSHU DATTA**

One of the great accomplishments of the 21st century is the ability to determine locations very accu-rately. A smartphone can easily geo-locate itself inside a square with 3.5 metres or less on each side, using open location codes ("plus codes").

("plus codes").

Plus codes simplify the representation of a given spot, using extended longitude and latitude coordinates with subdivisions of minutes and seconds. Plus codes use a Base 20 number system to convert the Lat-Long readings into shorter formats. Geometers can also add the international height preference frame to adjust difference reference frame to adjust differ-ences in sea-levels with baseline

'zero-height". The maths is not conceptually The mains is not conceptuany hard. The accuracy of measurement is critical. That accuracy comes from 21st century's satellites, which measure time and distance with remarkable accuracy. The same spot is targeted by many satellites to ensure accurate seelection.

Geolocation is a classic example Geolocation is a classic exampte of technology with multiple applications. Amazon, Blinkit, Swiggy, Uber, Lyft, and Google, among others, use it to locate obscure places. Emergency services like ambulances, police, fire brigadhic findituseful. Civil engineers design road and sewage systems and road and sewage systems and power grids with it. Municipalities

use it to checktax records. Logistics services, shippers, affilines, cut millions off costs with it.

Accuracy can be refined to a much greater degree by increasing the number and quality of satellites. A normal 11-digit plus code offers accuracy to within a square with sides of 3.5 metres at the equator (it's even more accuracy and the property of the property of

away from the equator). A 1-digit plus code locates a 22 cm square. Military systems use even more accurate methods, edging down to millimetres and less. Once you've found an exact spot, getting there with the least fuss is useful. Many service pro-viders are looking at drones and driverless cars or trucks to do the job. The average drone is far better at reading a map than the

better at reading a map than the average human. The only issue is navigating traffic en route, since that traffic is largely generated by average humans. While a drone can deliver pizza to somebody at random location, it can also deliver kaboom, it's not so difficult to fig up a drone to carry an explosive payload, which can be set to go off at a specific place. Variations on this theme involve

rockets and other missiles. In World War II, the Germans In world war it, the Germans used gyroscopic timers to trigger the original cruise missile — the V-1 flying bomb. The engineers knew approximately how long a trip from the launch site to the target would take. The gyro was set to rotate for that duration, and the bomb exploded once the gyro stopped.

The 21st century equivalents of

The 21st century equivalents of the V-1 have more sophisticated the V-1 have more sophisticated trigger mechanisms to go with far more efficient navigation. Whether its drones, cruise mis-siles, or other munitions, they are all capable of finding targets with extreme accuracy and exploding at the right instant.

at the right instant.
The defensive responses

Weight of the 5th star

Asim Munir has locked up Imran Khan, had his handmaiden Parliament mangle the Constitution, and given himself an extended tenure. But the additional jingle of that fifth star will not change facts on the ground

> NATIONAL INTEREST

What can a Pakistan Army chief do with a fifth star

What can a Pakistan Army chief do with a fifth star that he couldn't with four? What can a Pakistan Army chief, master of all he surveys, do as Field Marshal that he couldn't as a mere General? It's tempeting to say, little more. This is just a bit more biling on his collar, cap, car, and, when he chooses, on his pulpit — a main battle tank. That must be the question also assailing his mind. He knows that he can't have this fifth star and do nothing more with it. Should India worry?
The short answer is, India must always worry

The short answer is, India must always worry about the Pakistani army, and it does. Just that, there's this added concern and urgency with this bizarre promotion from within the "system" — or maybe from outside it, depending on where you place Shehbaz Sharff in this arrangement. What will he do with his fifth star, only for the second time in Pakistan's and the subcontinent's history? (Our three five-stars, Cariappa, Manekshaw and Arjan Singh were handed ceremonial battons), it is a phenomenon so rare for modern militaries that today, the only example in a

enon so rare for modern militaries that today, the only example in a country of some consequence would be Eigypt's Abdel Fattath el-Sist. Even the mighty Americans burled the exalted title with Marshall, MacArthur, Eisenhower and Bradley. He will surely want to do something with it. I might suggest taking a leaf out of Idl Amin's book and find some equivalent of his "Conqueror of the British Empire." But this isn't the time to be funny.

time to be funny.
Firing his civilian government and taking Firing his civilian government and taking over power would be so boring in Pakistan. He doesn't need that. All our politico-strategic analysis of Pakistan should henceforth be focused on this one central point. How will Field Marshal Asim Munir be different from General Asim Munir? What the General could do, we saw indicated in his speech to overseas Pakistanis on April 16 and in what happened in Pahalgam on April 22. The one promise in Intat speech he've to fulfilis, making Pakistan 'a hard state."

Victory celebrations for promasanta spart.

Victory celebrations for propaganda apart, he knows his military has suffered a severe sethe knows his military has suffered a severe set-back. Any set unsubstantiated claims of down-ing Indian planes can please the population for a while. It is just that the pictures of the battered airbases — each one of them east of the Indus— and the big Jaish-Laskiar establishments reduced to rubble will endure. However much be thumps his chest, the additional jingle of the fifth star will not change those facts on the

ground. He would want to do something soon to

ground. He would want to do something so not on "make amend". In fact, he would need to. I would go so far as to wager that he will do something sooner than we might have imagined. In the past, in a phenomenon described earlier as the Pakistani Army's "seven-year itch", each major terror attack and the Indian response bought us about seven year deference and relative peace. We will not get that kind of time now, because Munit haan't got it. When he will act, what he will do, we can wargame — but can't be sure. There's only one thing I can say with certainty. If you are looking at six

game — but can't be sure. There's only one thing can say with certainy. If you are looking at six or seven years, I can tell you for sure where Munit will be. Politics, culture, and history of Pakistan indicate that it won't be a good place.

Before we get there, however, the awesome powers he amassed as a four-star deserve a look. He already had at his feet the civilian government of the control of the cont

SHEKHAR GUPTA

exalted power. This, after he banned his party from contesting. The fact that Munit's preferred parties (the coalition led by PML-N) couldn't even win this one-horse race didn't matter, he installed them nevertheless.

The judiciary has caved in, especially as it conceded to the military courts the power to try civilians for some most serious offences, especially treason. He's already got his handmaiden Parliament, elected in an institutionally stolen election to rubber stamp ammedments to mangle the Constitution and give himself an extended tenure. He's got it all sewn up. So, what's next?

what's next? See it from where the field marshal sits. If he looks seven years ahead, he would dearly hope and pray that statutory warning on mutual fund advertising applies in his case. Past performance is not a guarantee of future performance. Because the past will tell him that every exact army chief with political ambition has ended up

badly: Disgraced in defeat, or exiled, pro even assassinated and, in some cases, three of the four. Ayub, Yahya, Zia, Musharraf, the four make

a straight line.

To stretch this, even Zulfikar Ali Bhutto became a dictator and shared the same fate. Munir's two predecessors, Qamar Javed Bajwa and Raheel Sharif were prudent in ultimately fading away, whatever power they exercised when in uniform. A Pakistani chief with the kind when in uniform. A Pakistant chief with the kind of power that Munir now has, no longer enjoys the luxury of thinking of retirement one day to play golf. That option out, Munir has the compution to do something with what the religious teacher in him might see as a god-given opportunity. I seem to be the chosen one, and if so, what is it that I was chosen to do?

His rise is sul generis even for Pakistan. The country has given us a chief who the civilian government appointed defence and home minister simultaneously (Ayub), then made him the chief martial law administrator, and who, in turn, fired the same civilian government to become presi-

the same civilian government to become presi-dent and, soon after, anointed himself field marshal. We've seen Yahya, Zia and Musharrafas garden variety military rulers all meeting one of these ends.

garden variety military rulers all meeting one of these ends.

The last two also installed some kind of an elected government. This "bonsai" phenomenon was Pakistan's unique contribution to political science. When the generals were not directly in power, they held it from outside. Again, that uniquely Pakistani phenomenon was called "hybrid" government. How would you describe what we have now? A field marshal with a captive government and his only likely challenger in jail.

More than three decades back, when Nawaz. Sharif' was dismissed by the military establishment, he had said to me defiantly in an interview. "What kind of system is this, addha tittar, addha bater (half a patrifige, half a quail)." When he returns with a majority next, he said, he would make sure there's clarity. Either they (the army) should rule, or us (elected civilians).

I wonder how he would describe what he sees

make sure there's clarity. Either they (the army) should rule, or us (elected civillians). I wonder how he would describe what he sees now, self-exiled from politics in his own country. How would you see this? An army chief elevated to field marshal, the most popular leader jailed for almost two years, and a farcically elected civillang overnment in power.

Do you remember Duck-billed Platypus from your class five biology class - the unique Australian organism with characteristics of a mammal, bird and reptile used to make the case for evolution between species? I know you are laughing, but please don't. This isn't funny. This is what Pield Marshal Munit is now presiding over. He cannot have it all and do nothing with it. That fifth star is smuch of a burden as the fake claims of victory, india had better be prepared. Munit doesn't have another 5-7 years. He could be back at our throats soon, even within the next 12 months.

Plan B for the planet

EYE CULTURE

Not too long ago, the idea of cooling Earth by bouncing sunlight back into space would have seemed like a fringe fantasy — equal parts sci-fi and geo-political taboo. These days, it's inch-ing into the heart of serious climate

conversations.
This is no coincidence. Climate forecasts, once laden with caveats, are now sounding more like sirens.
The World Meteorological Organization has warned that global tempera tures could rise as much as 2°C above pre-industrial levels in the next five years, breaching a climate red line. At that mark, we're looking at shrinking crop yields, collapsing ecosystems and more than a third of the global population potentially exposed to extreme heat

extreme heat.

In this climate of urgency, Solar Radiation Modification (SRM), a subfield of solar geoengineering, is garnering attention. The concept is simple: Reflect a small portion of sun likely back in the special series of such series. light back into space to artificially cool the planet. The methods vary wildly — from injecting sulphur dioxide into the stratosphere to spreading reflec-tive glass particles over Arctic Ice. Elegant in theory but risky in practice Tinker with the global thermostat to cool one region, and you might cause drought in another. The models are incomplete, risks planetary, and gov

ernance nearly absent. Still, money is flowing in. Accordgto SRM360, a non-pro

developments in the field, funding between 2020 and 2024 reached \$112.1 million — over 3x the \$34.9 mil-lion spent between 2010 and 2014. And the momentum isn't slowing \$164.7 million has already been co mitted for the next phase, from 2025 through 2029.

through 2029.
A key player in this new wave is
the UK's Advanced Research and
Innovation Agency (ARIA), which has
pledged roughly \$80 million towards
real-world SRM experiments. Its
"Exploring Climate Cooling" initiative
is pushing boundaries: Researchers
under the programme aim to test
whether they can thicken Arctic ice,
brighten marine clouds, or even simu
late the effects of drillal prints. Mari ongsteen manneciouss, or even simi-late the effects of orbital mirrors. Mark Symes, ARIA's programme director, put it bluntly in a recent BEC linter-view: "There is a critical missing gap in our knowledge on the feasibility and impacts of SRM, and to full that gap requires real-world outdoor experiments."

But the approach carries prouts.

But that approach carries reputa But that approach carries reputa-tional risks. Over the past decade, sev-eral respected institutions—including Harvard and a UK university consor-tium involving Oxford — have launched SRM projects, only to pause or cancel them in the face of political backlash and scientific hesitation. But not everyone is waiting for academic approval. Since 2017, the Arctic Ice Project — a privately run effort — has scattered tiny reflective glass beads across 17,500 square

glass beads across 17,500 metres of Arctic sea ice. The move leaders. It now hopes to scale up its deployment across 100,000 square

kilometres.
Then there's the do-it-yourself crowd. In 2022, a British independent researcher launched a weather balloon that released sulphur dioxide into the stratosphere, dubdloxide into the stratosphere, dub-bing the project SATAN — Strato-spheric Aerosol Transport and Nucleation. Around the same time. Silicon Valley-backed startup Make Sunsests began launching similar ba-loons while planning to sell "cooling credits" to fund the operation. Critics argue that such experi-ments, if conducted without rigorous review, may volate international environmental laws, including the 1985 Vienna Convention, which pro-

1985 Vienna Convention, which protects the ozone layer. Some participants point to a lack of national tion as justification. That legal vacuum, however, doesn't equal a green light. SRM360 has also flagged

global consequences.

And then, there's the spectre that haunts every SRM debate: Fossil fuel interests. Critics worry that solar geoengineering could offer a convenient excuse to avoid the harder—and more politically painful — task of cut

more pointscam position ting emissions. For now, SRM remains what it's always been — an audaclous, deeply uncertain proposition. It sits at the intersection of science, ethics, politics, and desperation. Whether it evolves into a viable climate Plan B. a cautionary tale will depend less on technological innovation and more on political will, public oversight, and a global consensus that's still where in sight.

AI's singular uncertainty



TICKER

It is hard to think of any historical parallel for the technological rev-olution promised by the growth of artificial intelligence (AI). In both its speed and its possible scope, AI

itsspeed and its possible scope, Al appears unprecedented.

The real issue, however, is that few technologies of the past created such uncertainty. It is true that nobody could predict what the internet would do to society. But the variation in people's expectations of Al's eventual effects is particularly wide. Here are four areas in which predictions of the impact of Al have shown this stunning divergence.

shown this stunning divergence Global inequity: Many pre vious technologies have helped level the playing field between developing and developed nations. The information-tech-nology revolution and the inter-net helped those in India, for example, compete on some ser-vices with companies and people in the West. The econtechnology - for consumers of

producers — was shared between countries. We don't know if the same will be true of Al. One view is that its spread will enable greater productivity for workers everywhere, that it will minimise problems caused by linguistic differences, and allow for more efficient provision of government services in capacity-starved developing countries. This might have an equalising effect on welfare across nations. But others point out that there is an embedded first-mover advantage to Al greater than demonstrated by greater than demonstrated by previous technologies, which previous technologies, which were more easily replicable. Those who can possess the most computing power, who can trails their algorithms earliest, may retain their lead indefinitely. The patents and proprietary information that go into most AI models are controlled by pools offinance concentrated in only a few geographies, and they will benefit disproportionately.

In other words, we can't be

graphies, and they will benefit disproportionately. In other words, we can't be sure if AI will reduce the welfare gap between developing and developed countries, or greatly increase it.

rease it.

Employment: All technoies, when introduced into jobs. But with AI the predictions are particularly stark. Dario Amodei, chief executive officer of Anthropic AI, told Axios this st estimate is that

and spike unemployment to 20 per cent in the next one to five years". He said governments should prepare for the "mass elimination of jobs across tech-nology, finance, law, consulting and other professions".

and other professions".

Others claim, however, that the long-term effect is likely to be positive in terms of productivity gains, which will then open up new roles and raise wages all round. Most employers don't agree with Mr Amodel. One Warld Economic Ecrum surgery. World Economic Forum survey-based report predicts that AI will based report predicts that Al will cause 92 million jobs to be wound up, but create 178 million new ones by 2030. Their survey of 1,000 large global employers found that more than half expected to increase their salary bill by 2030, while only 8 per cent expected the salary share of rev-enue to decline.

Creativity: What will AI do to iman creativity? Will we be human creativity? Will we be more or less able to express our-selves once we have access to better and better Alengines? Few things are more divisive than this. Across social networks, Al-generated visual "art" has become ubiquitous. Most small businesses now rely on free Al image generation for basic mailers and graphic design. The creation of images — and, increasingly, music and lyrics — is only dependent on the

- is only dependent on the

quainty and inventiveness of the prompts given to the AI, not the inherent talent and skill of the human creator.

Human artists and designers, meanwhile, point out that this is not generative, but regenerative — an unimaginative remix of whatever real work by real artists an algorithm fords solice. In the whatever real work by real artists an algorithm finds online. In the absence of new artistic feedstock, derivative Al-assisted artwork will wind up being an endless circle of replication. Only humanscan create novelty, and if they are edged out of the creative process, creativity will grind to a halt for the first time in history. Human survival: The industrial revolution, based as it was on fossil fuels, eventually led to

fossil fuels, eventually led to global warming with its existential risk for many human com-munities. Al's risks are, according to some, more immediate and even higher. Even two years ago, some in Silicon Valley were warning A1-related risks were startlingly high. The Center for A1 Safety said in June 2023 that "mitigating the risk of extinction from A1-thought be a closely nice." from AI should be a global prior-ity alongside other societal-scale risks such as pandemics and nuclear war". Others in the field scoff: One senior MIT researcher said that there is "no more evi-dence now than there was in 1950" that Al would pose an existential risk to the human race. It's hard to find a starker difference than this: One group involved with the technology thinks it may well kill us all, and make us immortal.





Climate resilience must be at the core of growth

Without embedding climate and disaster resilience into its core development strategy, the nation could face escalating disruptions that threaten not only its economy but also the livelihoods, infrastructure, and future of its people



India has recently achieved a remarkable milestone by becoming the world's fourth-largest economy, surpassing both Japan and Germany. This achievement highlights the country's strong economic growth, expanding international influence, and increasing economic resilience. As India aspires to become a fully developed nation by 2047, marking the hundredth anniversary of its independence, there is a strong sense of optimism that prevails. Nevertheless, this aspiration is overshadowed by significant challenges, especially those arising from climate change and natural disasters. If India does not incorporate climate and disaster resilience into its fundamental development goals, it may jeopardise the numerous economic gains it has worked so hard to achieve.

The effects of climate change and associated disasters pose serious limitations on development, disrupting business activities, damaging infrastructure, and jeopardising supply chains—concerns that are particularly relevant for developing countries like India, With the rising frequency and severity of climate-related disasters, their impacts are being felt across multiple sustainable development goals, especially those associated with economic growth, trade, transportation, energy, environmental sustainability, and public health. These escalating risks not only slow progress but also reveal how specific development priorities can increase vulnerability to disasters and climate change through emissions, land-use modifications, and exposure to hazards. Consequently, a

ment priorities can increase vulnerability to disaster and climate change through emissions, land-use modifications, and exposure to hazards. Consequently, a comprehensive and proactive strategy for climate and disaster realizence is essential.

India's distinct geography — characterised by tropical monstoon systems, a 7,500-kilometer-long coastline, and the seismically active Himalayan region—along with its socio-economic realities, makes it one of the most disaster-prone nations in the world. On average, the country encounters five to six cyclones each year, with two or three usually classified as severe. Unpredictable monsoon patterns lead to recurring floods in major river basins. Over the past two decades, India has

the past two decades, India has faced significant economic losses due to extreme weather events, which have severely undermined development progress. A 2022 report from the National Institute of Disaster Management (NIDM) and the United Nations Office for Disaster Risk Reduction (UNDRR) stated that India experienced economic damage of around \$80 billion

Disaster Risk Reduction (ONDRK) stated that inc experienced economic damage of around \$80 billion between 1999 and 2020 due to floods, cyclom droughts, and earthquakes — events whose freque cy and severity have been worsened in the recent pa

verity have been worsened in the recent past rous high-profile disasters highlight the con-between climate — induced events and setbacks in development. The Chennai floods of 2015 impacted over three million individuals, disrupted



more than 20,000 small and medium enterprises and resulted in damages estimated at \$2.25 billion. Likewise, the Kerala floods of 2018 — considered the worst in a century — affected 5.4 million people, damaged over 10,000 km of roads, and caused losses exceeding \$4.3 billion. The tourism sector, contributing 12 per cent to the state's GDP, halted operations, and recovery needs were estimated at \$3.8 billion, in 2020, Cyclone Amphan struck West Bengal and Odisha, resulting in damages estimated at \$1.3 billion, disrupting infrastructure, agriculture, and livelihoods across both states.

The agriculture industry, which employs almost half of India's workforce, has proven to be particularly susceptible to severe weather. According to the Food and Agriculture Organisation of the United Nations (#AO)'s 202 report, The Impact of Disasters on Agriculture and Food Security 2023 — Avoiding and Reducing Losses Through Investment in Resilience, approximately 23 per cent of the overall economic losses resulting from disasters are incurred by the agriculture sector. This highlights the sector's considerables usceptibility to natural hazards such as droughts, floods, and storms. The report enhances to mitigate these impacts. In India, repeated droughts in states like Maharashtra, Rajasahan, and Karnataka have resulted in consistent crop failures, worsening rural hardship and leading to significant

resilience to mitigate these impacts. In India, repeat-ed droughts in states like Maharashtra, Rajasthan, and Karnataka have resulted in consistent crop failures, worsening rural hardship and leading to significant migration. According to the World Bank's Climate Risk Profile for India (2021), climate-related catastro-

phes could potentially decrease India's GDP by up to 2.8 per cent each year. Information from CRED's EM-DAT database (2023) shows that flooding constitutes nearly 50 per cent of all disaster-related financial loss ein the country. The disruption of livelihoods, mass displacements, collapse of infrastructure, and halts in economic activities further strain public finances and obstruct developmental progress, particularly in regions most vulnerable to climate impacts.

Major urban centres in India, which are essential to the nation's economic development, are becoming increasingly vulnerable to extreme weather phenomena. Cities such as Mumbai, Delhi, Chennaj, Hyderabad, Bengaluru, and Kolkata frequently experience flooding, heat waves, storms, and unusually heavy rainfalls. These occurrences damage infrastructure, disrupt transportation systems and interfere with essential services. Megacites like Delhi and Mumbai, which have high population densities and depend heavily on climate-sensitive infrastructures, are particularly at risk.

Recently, Mumbai experienced its wettest May in over a century, with a month's worth of rainfall falling in just 24 hours. This record-breaking rainfall flood ef roads, disrupted flights and local trains, and caused parts of the newly constructed Worli underground station on Metro Jane 3 to become non-operational. Meanwhile, the National Capital Region (NCR) and Delhi faced severe, off-season rainfall and dust storms that damaged infrastructure, caused power outages, supprooted trees, and halted traffic. In May 2025, unex-

at damaged infrastructure, caused power outages prooted trees, and halted traffic. In May 2025, unex-ected storms followed by heavy rains compromised that damaged infra

public infrastructure, leaving typically dry areas inun-dated. These events indicate a significant, climate-led transformation in urban weather patterns and high-light the pressing need for resilient infrastructure and

light the pressing need for resilient infrastructure and urban planning.

The financial burden of disasters is primarily shouldered by state Governments. Relief efforts, emergen, medical assistance, and evacuation costs exert pressure on public finances, particularly as revenues from sectors like tourism and agriculture decline. While states that experience fewer disasters can often manage these expenses internally, more vulnerable states typically depend on central assistance or borrow from financial markets, which increases public debt and diverts resources from long-term development goals. Procedural challenges in accessing the State Disaster Response Fund, including spending limits and bureaucratic red tape, further hinder recovery processes.

ing the State Disaster Response Fund, including spending limits and bureaucratic red tape, further hinder recovery processes.

Beyond the economic impacts, disasters worsen social inequalities and obstruct inclusive development. In Chennal, major companies relocated their operations while informal workers and small exporters suffered heavy losses. In Kerala, the cancellation of tourist reservations drove small business owners and homestay operators into debt. These trends recur with each disaster, displacing vulnerable communities, often into urban areas that are similarly at risk. There is no doubt that India has made significant progress in disaster preparedness. The nation has developed advanced cyclone warning systems and an expanding array of disaster shelters. Nevertheless, sub-

stantial policy and institutional deficits persist. Disaster risk financing in India remains largely reactive, relying on budget reallocations after disasters occur. Financial instruments like catastrophe bonds—wide-ly used in regions like the Caribbean and Mexico—are still in the experimental phase within India. Barriers such as high premiums, inadequate actual data, and ambiguous regulatory frameworks impede their broader adoption.

India possesses a significant opportunity to take the lead in this domain. The nations effort to establish the Coalition for Disaster Resilient Infrastructure (CDRI), now supported by the G20, offers a robust basis for integrating disaster resilience into infrastructure planning and development. The effectiveness of this initiative will rely on aligning it with major national programs like the PM Gati Shakti master plan, as well as state-level climate adaptation strategies.

What India requires is a development paradigm focused on climate resilience. All future infrastructure developments—such as high-speed trains, solar parks, smart cities, and coastal highways—should be assessed for their exposure to various hazards and designed to withstand the climate challenges expected by 2050 and beyond. Early warning systems need to expan beyond just cyclone notifications to include alerts for flash floods, lightning-prone areas, and cloudbursts in hilly regions. Fiscal resilience must be enhanced through a structured approach to disaster risk financing that merges strong disaster response resources with innovative financial strategies and contingent credit options. Global research indicates that investing a single dollar in disaster preparedness can save up to seven dollars during recovery and response. However, disaster preparedness can save up to seven dollars during recovery and response. However, disaster preparedness can save up to seven dollars during recovery and response. However, disaster preparedness can save up to seven dollars during recovery and response. However, disaster pr

(The writer is a former Executive Director, National Institute of isaster Management, GOI and former Director, SAARC Disaster Management Centre, Views are personal!

Lokmata Ahilyabai Holkar: The embodiment of dharma and good governance

The development of any country depends on the welfare policies of the Government and its good governance system. The history of India is full of stories of such rulers who did a lot for the development and upliftment of the country. One such name is Punyashlok Maharani Ahlyabal Holkar.

Punyashlok Maharani Ahlyabal Holkar. Her welfare policies inspire Governments even today. This year is her 300th birth anniversary and the entire country is celebrating her legacy. She was born on May 31, 1725, in Chaundi village of Ahmednagar (Ahlya Nagar) district. The Bharatiya Janata Party, under di-district. The Bharatiya Janata Party, under day campaign from 21 May to 31 May in the memory of Lokmata Ahlyabal. Inspired by the multi-faceted personality of Maharani Ahlyabal Holkar and her life's deeds.

Maharani Ahilyabai Holkar and her life's deeds, BJP workers are working to spread the poor welfare schemes of Honourable Prime Minister Shri Narendra Modi and his resolution of "Vishwaas se Virsasi" to the people. This work is being accomplished through intellectual dialogues, exhibitions, competitions among students, competitions among students, cleanliness of temples and glast, aartis and processions. State Governments and local administrations have also named many schemes and institutions after Maharani Ahilyabai Holkar. Western scholars spread propaganda about India and said that "Hindu governance was chaotic."

propaganda about india and said that "Hindu governance was chaotic," James Mill wrote that "India was a morally hollow and selfish society which was not governable," whereas in Western countries, terrible atrocities

Western countries, terrible atrocities were being committed in the name of religion. In India, Ahilyabai Holkar established a welfare Dharmarajya. In India, Dharma is a broad concept which paves the way for economic and moral progress. Dharma teaches the path from earning money and development of human qualities in personal life to salvation. For the rulers, it teaches policies and plans to increase economic prosperity and in personal life, it teaches one's relationship with mutual cordial behaviour, society, nature etc.

This has been conveyed by sage Kanada in Vaisheshik Sutra: "Yato abhyudaya nixshreyas siddhi: sa dharma" which translates to "That which leads to both Abhyudaya (material wellbeing) and Nixshreyas (spiritual well-being), is Dharma."

In India, the rule based on religion is

Dharma."

In India, the rule based on religion is considered to be the ideal rule, in which everyone is happy and healthy. That is, economic prosperity from the material point of the properior before the prosperity from the material point of



environment in which everyone can follow their religious duties, such an environment became an example of an ideal state. Such a capable rule was given by Lord Shri Ram, so Ramralya became an ideal and exemplary state for all. Many kings like Emperor Vikramaditya, Raja Bhoj. Emperor Harshwardhan tried to follow this ideal of Ramralya. Rulers like Maharana Pratap. Chhatrapati Shivaji Maharaj sacrificed their lives to protect these values during foreign invasions. Ahliyabai was also a queen who followed these eternal values. ironment in which everyone can

followed these eternal values.

Ahilyabat took over the rule of Malwa state in 1767 after the death of her father-in-law. Due to her devotion towards Narmada, commercial and strategic skills, she made Maheshwar on the banks of Narmada her capital. She ruled this state for 28 years till her death. Schemes for the development of farmers, providing land to landless farmers, tribal development, making her rule crime-free, employment-oriented economy, women empowerment, production of Maheshwari sarees for her and soldier welfare were the specialties of her rule. She also created a women army by forming a military contingent of 500 women. Maheshwar sarees even today reflect her women-centric industrial policy. Due to her affection towards the people, the public to her affection towards the people, the public gave her the title of Lokmata.

followed these eternal values

gave her the title of Lokmata.

Along with the economic development of her
state, she also played an important role in the
cultural upliftment of India. Even after being the
queen of Malwa state, she did the work of

Construction of innumerable temples including all the Dhams, all the lyotirlingas, all the Shakti Peethas, construction of river ghats, arrangement of Dharamshalas for the stay of the travelers, this is a series of incomparable works done by her.

She also had a role in the reconstruction of Badrinath, Kedarnath located in the Himalayac. Lord Shri Vishwanath located in Kashi, Somnath, Dwarika, Puri Jagannath, Rameswaram. The number of these works done by her across the country is over 12,500. Its specialty is that she got this work done from her own wealth, not from the treasury. Starting a Sanskrit school and honoring scholars reveals her deep interest in education.

Sanskrit school and honoring scholars reveals her deep interest in education.

Shivakamini Ahliyabai considered her rule as her rule of Shiva. For this reason, his name was not inscribed on his Government seal but "Shri Shankar: Aage Varunah" was inscribed. Shankar: Aage Varunah" was inscribed considering service to the people as service to God. While describing a good king. Vidur Niti says: 'Chakshusha Manasa Vacha Karmana Cha Chaturyidhan.

Chaturvidham.

Prasadhayati yo lokam tam loko nu prasidati" II
It means "the king who pleases his subjects
with his eyes, mind, speech and deeds, his
subjects are pleased with him. Due to these
qualities, Maharani Ahilyabai Holkar was
honoured with the title of Punyashlok'.

nonoured with the title of Punyashlok."
On the 300th birth anniversary of Maharani
Ahilyabai, let us commit ourselves to the welfare
of the world by becoming the centre of good
governance and cultural renaissance. This will
be a true tribute to Lokmata Ahilyabai.

India's Soaring Cooling Demand: A call for energy-efficient choices

India's rapid economic expansion and urban transformation have fueled an unprecedented rise in energy demand. One of the most visible outcomes of this growth is the surge in electricity consumption, which has climbed from 136 gigawatts (GW) in 2013-14 to 243 GW in 2023-24. On May 30, 2024, the country recorded an all-time high of 250 GW in peak power demand. This trend shows no sign of slowing, with a major contributor being the increasing need for cooling solutions and visiting terms.

the country recorded an all-time high of 250 GW in peak power demand. This trend shows no sign of slowing, with a major contributor being the increasing need for cooling solutions and irising temperatures and expanding urban populations. In 2024 alone, sales of air conditioners (ACs) jumped by 40-50 per cent, underscoring the growing demand for indoor climate control. Looking ahead, summer 2025 is expected to see a further 9-10 per cent rise in peak electricity demand, driven heavily by cooling needs. Already, fans and ACs contribute to nearly half of household electricity usage in urban India. Vet, despite this, only about 3 per cent of households use super energy-efficient celling fans. The primary barrier is affordability, as these fans typically carry a higher upfront cost. Addressing this affordability gap is not just an economic concern but also a strategic imperative. Encouraging the widespread adoption of energy-efficient cooling appliances offers India a unique opportunity to ease grid stress, reduce energy consumption, and enhance long-term energy security.

Peak Demand

Peak Demand

Every year, India adds between 10 and 15 million new AC units. By 2035, the country could see as many as 150 mil-lion more installed, Alongside ubiquitous

lion more installed. Alongside ubiquitous ceiling fan usage, this surge creates a sharp seasonal increase in electricity demand — particularly during the hottest months. This seasonal peak puts immense strain on power infrastructure, often leading to blackouts, increased procurement costs for electricity providers, and unreliable supply for consumers. In this context, improving the efficiency of cooling appliances becomes not just a household issue but a national priority. By reducing the load on the power grid, energy-efficient appliances can help stabilise the electricity supply.

Total Cost of Ownership

Total Cost of Ownership

Many consumers hesitate to purchase energy-effi-cient appliances due to their slightly higher price tags. However, these appliances often save signif-icant money over time. The concept of Total Cost of Ownership (TCO) includes not just the initial purchase price, but also the operating costs over the product's lifespan. High-efficiency appliances like 5-star ACs and BLDC (Brushless Direct Current) fans consume up to 50 per cent less power far exceed the initial price difference. Studies indi-cate that the overall cost of ownership can be reduced by up to 17 per cent, making high-efficiency mod-els not only environmentally sound but financially

The 'Mileage' Rating for ACs

Ine 'Mileage' Kating for ACS

To help consumers make informed decisions, India introduced the Indian Seasonal Energy Efficiency Ratio (ISEER) system for air conditioners. ISEER is akin to a 'mileage' label for ACs, measuring cooling output per unit of energy consumed across sea-onal variations. A higher ISEER rating signifies better energy performance. For instance, a 5-star AC with an ISEER value of 5.0 or more is comparable to a car giving 30 kilometers per litre, whereas a 3-star AC with a 5.5 rating might be closer to 20 km/l. Over time, this difference translates into substantial electricity bill savings — making 5-star ACs a smart electricity bill savings — making 5-star ACs a smart investment, particularly in climates like India's, where summer cooling needs are intensive.

Why BLDC Fans Makes Sense?

VITY DLDC FAITS WARKES SCHISE ?
Celling fans are the most widely used cooling appliances in Indian homes and often operate for 15 to 18 hours a day, especially in warmer regions. Traditional induction-based fans typically consume 70-80 watts, while enregy-efficient BLDC fans require only 28-35 watts. At the household level, this translates into savings of up to 15 per cent on electricity bills. While a BLDC fan costs around INR 2000 company to 1NR 1-300 for a conbills. While a BLDC fan costs around INR 2,700 compared to INR 1,300 for a con-ventional fan, the difference can be recouped in under 18 months through

recouped in under 18 months through atea almost cost-free for the remainder of its 7-8 year lifespan. Widespread adoption of BLDC fans could have a transformative effect. If every Indian house-hold installed just two such fans and operated them for 15 hours daily, national savings could exceed INR 78,000 crore annually.

Debunking the Wattage Myth

One common misconception is that higher wattage means better performance. This misunderstanding is especially prevalent in the lighting space, when consumers often believe that a 9-watt bulb is brighter than a 6-watt one. Wattage indicates energy consumed — not brightness. Efficiency-focused technologies like LEDs produce more lumens per watt, meaning a well-designed 6-watt LED can actually outperform a 9-watt bulb. The benefits of energy-efficient cooling extend far beyond individual savings. Environmentally, these contribute to reduced greenhouse gas emissions, supporting India's comprehensive gas emissions, supporting India's comgreenhouse gas emissions, supporting India's com mitment under the Paris Agreement.





Editor's

Int'l student's American dream on the hold

The Trump administration abruptly freezes new visa interviews for international students, disrupting their academic plans n a move sending ripples through global academic circles, the Trump administration has ordered a temporary suspension on new visa interview appointments for international students and exchange visitors. The decision - spearheaded by Secretary of State Marco Rubio as part of a broader plan to expand social media vetting of all F, M, and J visa applicants. While US officials describe the measure as "temporary," its ramifications may be far-reaching, affecting students, US universities, and America's position as a global education hub. The State Department has directed US embassies worldwide to halt scheduling new visa interviews for student and exchange visitor visas, including the commonly used F-1 (degree programs), J-1 (exchange programs), and M-1 (vocational training). No timeline has been given for when new interviews will resume. The department cites a planned overhaul of screening and vetting processes.

panded scrutiny of applicants' social media as a central feature immediate impact is on students hoping to begin their studies i US in Fall 2025. With the visa process already requiring weeks to months, this halt could mean delayed or cancelled plans for thousands of students who have already secured admiss ion but not yet completed thei

In the 2023–2024 academic year, over 1.13 million internat students enrolled in US institutions, a record high. A staggering 71.5 per students enrolled in US institutions, a record high. A staggering 71.5 p. cent came from Asia, with India and China being the top contributes, many of these students, this sudden freeze introduces uncertainty and potential derailment of life-changing academic and career plans. US universities stand to suffer significant consequences. Institutions like New York University, Northeastern and Columbia rely

heavily on international tuition revenue and research contributions. At Harvard, Yale and Northwestern, international students make up over one fifth of the student body. Harvard, embroiled in recent tensions with the administration, had its approval to enrol new international students revoked just last week. Losing international students would impact not only financial bottom lines but also the diversity, innovation, and global reputation of these institutions.

Research labs, graduate programs, and cultural exchange efforts could all take a hit. While the official reason for the pause is national security and take a nit. Write the ornicul reason for the pause is national security and vetting improvements, but it may well be politically charged. The move comes amid escalating tensions between the administration and university campuses over pro-Palestinian protests and free speech issues. Though the administration maintains its focus is on safety and screening, incidents like this suggest a blurred line between legitimate security concerns and

political repression.

The feasibility of this suspension rests on a complex balance. On one hand, enhancing vetting processes may be viewed as a legitimate national interest. However, the broad and undefined nature of this pause risks undermining the US's standing as a destination of choice for global talent. For now, students, universities, and global academic partners are



Dean Faculty of Veterinary Sciences at Sher-e-Kashmir University of Agricultural Sciences and Technology (SKUAST) Riaz Ahmad Shah with India's first gene-edited sheep, in Srinagar. PTI

China's modern warfare without war

Despite boasting formidable military capabilities and engaging in loud sabre-rattling, China consistently avoids direct military entanglements, choosing instead a path of deception, diplomacy and economic entrapment

hinese philosopher, Sun Tzu (author of Art of War) has influ-enced the thinking and policies of the Chinese leadership, for cons. Amongst his most potent and famous trea-tise is on the military doctrine of asymmet-

Amongst his most potent and famous treatises ion the military doctrine of asymmetrical warfare, which is increasingly relevant in a VUCA (Volatile, Uncertain, Complex and Ambiguous) world of constant churn and dissonance.

One key feature of expansionist China's strategy has been to follow sun Tzu's very cost-efficient dictum of "subduing the enemy without fighting," Much has been made of China's militaristic prowess, aggressive postures, 6th Generation technology and weaponry, "Wolf Warrior" diplomacy et al, but a quick scan of all recent global conflicts and wars will show the stark absence of Chinese boots-on-ground, despite much noise of China's positions on the conflict.

As seen, when the US-NATO abandoned Afghanistan, in the Israel-Gaza war, Russia-Ukraine war, or even very recently in the four-day Indo-Pak conflict, the much-bandied intervention by Pakistan's Iron-

bandied intervention by Pakistan's 'iron-cladd brother' i.e, China, was limited to adopting a pro-Pakistan position, diplo-matically only.

atically only. In India, specifically, imagined scenar-s like the "two-front war" led to much ios like the "two-front war" led to much discussion and strategising to ensure deter-rence and dissuasion of a simultaneous conflict along the China-Pakistan border. The sense of acute vulnerability was heightened by the reality of the alreadystretched, resource-constrained, and over-deployed Indian wherewithal, which would test its ability to take on two pow-ers simultaneously (one of which would ers simultaneously (one of which w be China). Yet again, those fears came to no as the Chinese reaction to Indian re

he again, those rears came to hough the Chinese reaction to Indian retali-on against China's ally, Pakistan, led to oport in terms of words and not boots-ground, as feared. Has the Chinese appetite for an all-out conflict waned or does it prefer to bide its time (with some

ooes it prefer to bide its time (with some sabre-rattling thrown in) and use other levers to push its agenda? Despite siding with Putin on the Russia-Ukraine war, it has remained steadfastly out of militaristic presence (unlike other coun-tries like North Korea or NATO countries who have supplied weapons and person-nel). Smilarly, it hasn't exactly swooped down on the anti-West sensibilities of the Afghan Taliban or attempted to co-out the down on the anti-west sensibilities or tine Afghan Tailban or attempted to co-opt the same despite the vacuum left by the aban-domment of US-NATO troops. In the violent Middle East theatre too, China seems to please all sides, without



empting to irate any, leaving no clear pic e if it is pro-Israel, pro-Iran, or even pro lestine — mealymouthed platitudes and nerous Chinese doles (economic) to ous Chinmealymouthed platitudes and hinese doles (economic) to party looks like controlling the offered. All this has ensured

ed. All this has ensured that China is the favourite fallback option for all illiberal, autocratic, option-less or even paralysed nations when all other doors close. But, as the United States of America remains busy piling up the body bags and burning precious

burning precious amounts of dollars to

minutes of colars to pursue prohibitively expensive wars in the Middle East, and Afghanistan, or even sup-porting the Russia-Ukraine war, the Chinese sit out and instead plough their resources to win over territories through economic, diplomatic and technological influence.

However the Chinese do not shy away However the Chinese do not shy away from arm-twisting their commercial imper-atives (eg. taking over Hambantota port in Sri Lanka for a 99-year lease), economic and cyber coercion (eg. "Volt Typhoon" attack on critical infrastructure in Australia) and even cartographical expansionism (eg. making artificial islands in South China seas). — but do so, without provoking full-on conventional warfare. Right throughout Sun Tzu's pearls of wisdom seem apparent in Chinese tatcies, "All warfare is based on deception. Therefore, when canable feign in capacity; when

warfare is based on deception. Therefore, when capable, feign incapacity; when active, inactivity. When near, make it appear that you are far away; when far away, that you are for away; when far away, that you are to lure him; feign disorder and strike him. When he conceptrates, prepare against him; where he is strong, avoid him. Anger his general and confuse him. Pretend inferiority and encourage his arrogance.

Chinese have become masters at playing exceptibility and and confuse the control of the control of

Chinese have become masters at play-ing geopolitical mind games which may suggest a lot, but lead to rather muted material action, ultimately. Therefore, while China shows intent (typically to adopt an anti-US position to attract trac-tion, it stays away from militarstic inter-vention and indulges in sabre-rattling, at best.

best.
The four-day Indo-Pak conflict may have resulted in China (along with Turkey and Azerbaijan) adopting a decidedly pro-China stance — but the support of the 'tron clad brother' did not extend to it intervening militarily or even adopting an aggressive posture along its border with India,

which would have led to discomforting dynamics for Delhi.

dynamics for Delhi.

The Chinese seem to choose their militaristic target rather selectively as they shadow-box with the Filipinso on the high seas, invoke 'Salami tactics' to creep onto Bhutanese territory, or even conduct recklese exercises in proximity to Taiwan — but remain cautious in not overstepping their beliliezence.

remain cautious in not overstepping their belligerence.

China understands that intervening militarily could disrupt its trade, commercial and economic stability which is already under stress with the ensuing US-China trade war, domestic weakening of demand, unemployment, and demographic decline. Therefore ensuring understood the stress with 'debt traps' will remain its most potent weapon to fructify its expansionist and hegemonic dreams.

Another aggressive and alternative means is via technological-cybersecurity wherewithal using companies like Husweit hat have raised many suspicions, globally. China is expected to pursue its calculated 'shoot-and-scoof' approach at best but perhaps not beyond that. As Sun Tzu also said, "The greatest victory is that which requires no battle'.

A common man's journey to God and self-mastery

Opinion

This is a normal feeling for a common man. One starts with great hopes: "I am different; I am very intelligent," which has nothing to do with intelligence as such. "I will show the work that I am superior." The 'ahankar' (ego) starts to become prominent very early in one's life. Nothing much happens as life meanders. Middle age arrives, and the realisation that what was hoped for has not materialised sets in. This affects physical health and one starts to age, with wrinkles and lines becoming more pronounced, and, yes, hair starting to grey. Mental health suffers too, with some requiring medical help. Old age starts to show it a harmful effects with loss of memory, unless one is mentally active, not glued mindlessly to television. It changes are to made, the realisation comes that one has lost: not made, the realisation comes that one has lost: The precious human life has been squandered. But we don't have to lose; I am one of those determined characters who refuses to quit, Nor squandered. But we don't nave to rose; I am one or will those determined characters who refuses to quit. Nor will I let my close ones live an ordinary life. What did I do?! gradually underwent a complete transformation. I got used to very simple, bland foods, which had high nutritional values. It doesn't take long. In my case, it was three months or so. Simultaneously, I started a regimen of walking and

Simultaneously, I started a regimen of walking and yoga exercises. Physical health started to get better to cut out entertainment, which had lots of exciten

yes, harmful content. Slowly, I got used to healthy entertainment. And I began to do spiritual practices like chanting, darshana', naman', praying and thanking God for favours done. The realisation came that God was getting involved in my life. I began to the store of intuitions by which God was giving me subtle hints. I was receptive and caught on. Solutions to invitable challenges of life became apparent and life started to become smooth. I was now ready to help my near and dear other mounts of the store of the store

ing their ugly heads, and we will succumb helplessly. God could have helped because His help is crucial in improving one's nature. But for God to help, one must take His shelter. What Have realised is that not only is my nature becoming better but my impious 'lazmas' of past lives are not able to cripple me. God balis me out every time (18.88) I feel bad for people who are busy earning for their near and dear ones even in advanced age. What happens when bad 'karmaphalas' manifess? Children put their parents in ICUs with little sympathy. This is the way the world is; we don't learn from the examines of the way the world is; we don't learn from the examine to the way the world is; we don't learn from the examines of the way the world is; we don't learn from the examines of the will be a supported by the name of the will be a for the world of the way the world is; we don't learn from the examines of the will all of us. Then, everything will change. The balance of life will start to get better because God is everything. (7.19) He can help in all aspects of our lives. God begins to reform us, as only He can. God knows what our faults are, and how they are hurting.

In my case, it was done on alternate days with one fault taken in my case, it was done on anermate days with one sault taken up. God made me realise that if I want a superior life, I must get rid of it. And God made the next day blissful to prove it. Then, God guides us so that we don't keep on committing the same mistakes out of habit. God alerts as only He can, through intuitions. Thus we begin to make our present better and future still better. But as we are limited in what we can achieve on our own, God actively helps.

(The writer is a spiritual teacher. Views are personal)

Letters to the Editor

Empowering the farmers with science

Empowering the farmers with science
Kamini Singh, a former scientist, traded her lab coat
for the fields of Uttar Pradesh, empowering over 1,000
farmers with organic moringa farming. What began with
a ₹9 lakh loan transformed into a thriving business
worth ₹1.75 crore, demonstrating how science and sustainability can uplift lives. Kamini Singhi journey is one
that began in the halls of some of India's top research
institutions — the Central Institute for Subtropical
Horticulture (CISH) and the CSIR-Central Institute of
Medicinal and Aromatic Plants (CIMAP). Promotion
of Moringa cultivation and developed value-added by
products like Moringa powder, oil, handmade soap.
Moringa tea, Moringa tablets etc.

CIMAP is steering multidisciplinary, high-quality
research in biological and chemical sciences and
extending technologies and services to the farmers and
entrepreneurs of medicinal and aromatic plants (MAPs)
with its research headquarters at Lucknow and Research
Centres at Bangalore, Hyderabad, Pantnagar and
Putrara. CIMAP Research Centres are aptly situated in
different agro-climatic zones of the country to facilitate multi-location field trials and research. A little more
than 50 years since its inception, today, CIMAP has
extended its wines overseas with scientific Collabora-

than 50 years since its inception, today, CIMAP has extended its wings overseas with scientific collaboration agreements in Malaysia.

JAYANTHY ANANDAMBAL | MUMBAI

SEBI new chief's pitch for transparency

SEBI new chief's pitch for transparency
The new SEBI chairman, Tubin Kanta Pandey, has
acknowledged the gaping holes at the helm given the allegations levelled by Hindenburg Research against former
SEBI chairman, Madhabi Puri Buch, for indulging in corrapt practices.
Moreover, when MLAs, MPs, and even Judges of High
Court and Supreme Court do not shy away from disclosing their assets and liabilities publicly, SEBI also should
come out clean. In this respect, the constitution of a highlevel committee for managing conflict of interests and disclosure for the regulator's board members is a step in the
right direction.

right direction.

At a time when millions are entering the stock mar At a time when milions are entering the stock mar-ket, the number of demat accounts now exceeds 170 mil-lion with account holders all over the country; their faith in the market regulator and the efficient functioning of the market regulator's wide ambit of influence, any line between the market regulator and the regulated entity must be fully disclosed.

The sooner this ambiguity is removed, the better it ould be for the financial and economic health of the country. Transparency and clear separation between reg-ulator and regulated are essential to uphold market integri-ty and protect India's growing base of retail investors. VILAY SINGH ADMIKAR I NAINHTAL

Around 250 mm torrential rains lashed India's "financia capital" and "vibrant city" Mumbai on Monday. The del-

capital" and "vibrant city" Mumbai on Monday. The del-uge brought sordid memories of 2005, 2017, and 2020 back. Mumbai is known to reel under heavy rains around July-August.

This time around, the monsoon arrived in advance but there was a clear IMD warning about the same. Visible mis-ery caused to thousands of people due to heavy downpour, overflowing drains and waterlogging was there to see. The important message that emanates from the massive year-ly rains is clear: like many major cities of the country. Mumbai is paying the price for massive urbanisation and poor planning.

Due to its geography, rainwater absorption and empty-

Mumbal is paying the price for massive urbanisation and poor planning.

Due to its geography, rainwater absorption and emptying is extremely vital for the city to secure itself from water-logging and flooding. Unfortunately, the necessary water accumulation prevention mechanism is still to be effectively put in place. Old drainage systems require an urgent lookin. More often, the old drains are clogged by waste materials. Ineffective drainage systems put a high load on the final outlets that empty into the sea. The basic groundwater absorption system has taken a hit by the concretisation of lands. Because of search-weeks oncome that one of lands. Because of search-weeks oncome that one of lands. Removal of encroachments, a move that can address most of the rain problems, is not forthcoming for

INDIA'S HISTORIC PUSH FOR **INDIGENOUS 5TH-GEN FIGHTER**

Today, India stands witness to a revolutionary shift in its strategic policy. The Defence Minister's decision to manufacture indigenous fifth-generation advanced fighter jets with active private sector participation is not menty a policy, but a historic heap toward india's pride, security, and emergence as a global superprover. This step breaks the handbles of freeigh dependency in the defence sector, subering India into a new an of self-reliancy dependency in the defence equipment led to delays in supply, technical constraints, and political pressures, challering our military strength. However, with modern technology and indigenous capability playing a decisive role in warrane, this decision is the need of the hour. Examples like the Brahfloto missile, Tejas righter jet, and indigenous as at

Tejas fighter jet, and indigenous air ce systems prove India's scientific chnical prowess is second to none globally. This decision transcends the defense sector, attracting investment, creating millions of jobs for the youth, and propelling technological innevation. The surgie in relating companier's shares post-announcement reflects the unsweering confidence of the nation and investors. This is not just a policy but a resolve to establish holds as an invincible force on the global stage.

The path of self-reliant defence will not The path of self-reliant defence will no only make India secure but also prosperous and empowered. India's decision to build indigenous fifth-generation (gither jets marks a transformative leap in defence and self-reliance. It ends foreign dependency, boosts national security, drives technological innovation, creates jobs, and inspires global confidence. This visionary step positions tedia as a string several properties of the positionary step positions tedia as a string.

Please send your letter to the letterstopioneer@gmail.com. In not more than 400 words.
We appreciate your feedback.



Monsoon of hope and familiar flaws

The southwest monsoon has arrived in Kerala eight days ahead of its scheduled onset and advanced quickly along the coast to Mumbai, reaching there 16 days ahead of schedule. This marked the earliest arrival of the monsoon in recorded history in the city and is a meteorological high-water mark. There was a forecast from the India Meteorological Department (IMD) about an early moset. Combined with other unexpected climate events, the monsoon has acquired a momentum rarely seen, and the rain has been relentless. Taken by surprise, the weathermen have raised the status of the alert from yellow to orange tored in most places. The distinction between pre-monsoon and monsoon showers is only technical, and the IMD has said that there will be above-normal rains in June.

The abundance of rain would give relief to many parts of the country which were reeling under heat wave conditions

The abundance of rain would give relief to many parts of the country which were reeling under heat wave conditions caused by a torrid summer, and augurs well for agriculture. Nearly half of the country's cultivated land is dependent on the monsoon. A good monsoon means abundant crops and an increase in rural employment and income which would boost the economy. It would also help the government augmentitis grain stocks. Higher reservoir levels will mean stable irrigation and power production. Groundwater levels can be replenished and there is a good opportunity to make the bestuse

boost to rural incomes; rains,

underprepared

batter

cities

repienissica and there is a good opportunity to make the best use of rainwater harvesting plans. However, several parts of the country have been ravaged by the heavy rains and normal life is disrupted. Major urban centres such as Mumbai, Delbi and Bensehus how compiled. and Bengaluru have remained susceptible to flooding, water-logging and related issues. Life in Mumbai was thrown off gear

low-lying areas were inundated and a metro station was flooded in the last week. Bengaluru also had similar experiences. Urban India is not monsoon-ready, and civic infra-structure which is already fragile and inadequate breaks down under the onslaught of the monsoon. No city has invested sufficiently in drainage and water management, lakes have disappeared because of encroachment or disuse, there is no check on the dumping of construction debris and garbage on roads, and tree felling is rampant. The design and construction of roads, buildings and apartments are faulty and accentuate the problems of water movement. These have been perennial urban planning issues; now, even smaller cities and villages are prone to rain havec and damage. The situation has become more drie with climate flooded in the last week. Bengaluru also had similar expe damage. The situation has become more dire with climate change making the weather unpredictable and bringing in extreme events like excessive rains, storms and cyclones.

Sustainable transport: Start with the roads

The union government has done well to add a mission dedicated to "sustainable transport" to its National Action Plan for Climate Change (NAPCC), considering the importance the transport sector has in the larger scheme of climate action. This will be the first inclusion of a new mission in the NAPCC in over a decade. Some countries including in the European Union and Africa have initiated similar programmes. The new mission would address vehicular emissions and develop green policies in the transport sector to achieve net-zero toagets. The plan is being prepared with the Ministry of Road Transport and Highways (Morth) as the nodal body. It will have various sub-sectors such as road transport, railways, ports, shipping and civil aviation. The ministry has been working extensively on the plan and the mission will present an informed roadmap for the future.

The focus on the transport sector, especially road transport, is critical to climate change mitigation programmes. Road transport is the largest contributor to pollution in e union government has done well to add a

port, is critical to climate change mitigation programmes. Road transport is the largest contributor to pollution in India, accounting for about 12% of the country's carbon dioxide emissions. The sector will be the last to become carbon-neutral. There are international standards for net-zero targets in other sectors.

New mission

climate action

transportation pose a daunting challenge

but emission cuts in

can boost

such as civil aviation and shipping. The international ship ping. The international ship-ping and aviation sectors aim to transition to net-zero emis-sions by 2050. However, there is no internationally agreed-up-on net-zero plan for the roads which are the most widely used component within the transport sector. Any plan to make the sec-tor carbon-neutral has to start with road transport.

The plans for reducing emis-

The plans for reducing emissions in the transport sector will involve changes in logistics, design of roads and vehicles, laws, consumer behaviour, urban planning and various other factors. Emission standards that align with international norms will have to be set and alternative fuels and electric vehicles (EVs) will have to be promoted. The shift to the EV ecosystem involves many challenges. The EV industry is yet to become self-reliant and it will take many years to reach there. There are problems related to technology, charging infrastructure, investment, finances and marketing. The government's goal is to have EVs constitute 30% of the new private vehicle registrations by 2030. This is a major challenge, going by the present trends. A significant amount of freight also by the present trends. A significant amount of freight also needs to be shifted from the roads to the railways if pollu-tion from the roads is to be reduced. As the new mission takes shape, its proponents will have their work cut out to

READING BETWEEN THE NUMBERS

Ameasure of growth amid deepeninginequalities

India's no. 4 spot in GDP rankings must be viewed along with declining wages and subdued consumption

VISHAL R CHORADIYA

As of May 2025, India has officially surpassed Japan to become the world's fourth-largest economy by nominal GDP, according to data released by the International Monetary Fund (IMF). India's nominal GDP is projected at \$4.3 brillion, slightly edging past Japan's \$4.18 trillion. This economic milestone was formally announced by BVR Subrahmanyam, CEO of NITI Ayog, at a press briefing following the 10th Governing Council meeting of the national policy think tank. Some economists argue that the actual crossover may occur closer to the end of the 2025-26 fiscal year, depending on fluctuations in exchange rates and quarterly data. Nonetheless, India's current growth rajectory suggests that it may overtake Germany to become the world's hird-largest economy by 2028.

This development has been met with jubilation across the ruling coalition. Union Commerce and Industry Minister Plysish Goghalhaide the achievement on social media, proclaiming, "We are the 4th largest economy in the world! This is Bharat trising under PM Narendra Modi Ji. "Sarbananda Sonowal, Union Minister of Ports, Shipping and Waterways, congratulated the public and credited the success to Prime Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership "since 2014. Anditra Pradesh. Infel Minister Modis" satute, dynamic and strong leadership and the public and credited the success to Prime Minister Modis" satute, dynamic and strong leadership and the public and credited the success to Prime Minister Modis" s

ister Modis "astute, dynamic and strong leadership" since 2014. Andhra Pradesh Chief Minister N Chandrababu Naidu echoed this sentiment, citing the Prime Minister's "visionary leadership and

Minister's "visionary leadership and strong economic governance." Similarly, Maharashtra Deputy Chief Minister and Finance Minister Aif Pawar lauded both Prime Minister Modi and Finance Minister Nirmala Sitharaman for steering the economy to this landmark. While such expressions of pride understandable in acountry long yearning for global economic recognition, these celebrations are also misleading from the economic realities facing the majority of Indians. The tendency to highlight nominal GDP in isolation, without accounting for population size, highlight nominal GDP in isotation, without accounting for population size, creates a distorted picture of national prosperity. India's population exceeds 1.4 billion, nearly Il times that of Japan. When GDP is distributed per capita, the



countries has seen only modest improvements, failing to significantly elevate the standard of living for a large section of the population. This sluggish growth points to deeper structural issues in the economy—issues that the absolute GDP figures conveniently gloss over. Chief among these is a stark and rising inequality.

India's Economic Survey for FY24 paints a troubling picture. While comporate profits soared by 22.3%, reaching their highest levels in 15 years, employment grew by a meagre 1.5%. Wage growthermained subdued. More disturbingly, real wages for workers declined substantially between 2017-18 and 2023-24. Male self-employed workers experienced a 9.1% decrease in real earnings, while female self-employed workers saw their incomes fall by a staggering 32.2%. Among salaried employees, men and women faced real wage reductions of 6.4% and 12.5%, respectively.

A rising imbalance

neutary capitat owners, wine wage earners and informal sector workers continue to struggle.

India's accession to the fourth position in global GDP rankings draws attention away from the harsh realities faced by millions - rising inequality, decining real wages, weak job creation, and subdued consumption. Hanything, its hould prompt serious introspection about the quality and inclusiveness of India's economic growth.

Celebrating nominal milestones while ignoring the foundational cracks in the economy is not just misguided—it is dangerous. Real progress will come not from overtaking Germany or Japan in GDP rankings, but from ensuring that economic growth translates into heter livelihouds, rising wages, and reduced inequality. Until then, such achievements remain hollow, and their celebration premature.

reduced inequality. Until then, suc-achievements remain hollow, and thei celebration premature. (The writer is an assistant professo with the Department of Professiona Studies, Christ University, Bengaluru)

SPEAK OUT

Pakistan wiped off the sindoor (vermillion) from the foreheads of mothers and sisters. Narendra Modi took revenge for that. Just



The way they talked about what happened was almost more important than what had happened.

David Duchovny



IN PERSPECTIVE

Roadmap for reconciliation

The UGC should assume an advisory role, reinstating the operational autonomy of state universities

S N HEGDE

The University Grants Commission (UGC) was established in 1936 based on the recommendations of the Radhakrishnan Com-

of the Radnasrishman Commission Report (1950) through
an Act of Parliament. The major mandate assigned to the
UGC wasto monitor the higher
education landscape and toensure minimum standards. In
1976, the subject of education,
including higher education,
including higher education,
including higher education,
wast transferred from the state
list to the concurrent list. Since
then, the central and state governments have been administering both school and higher
education.

In exercise of the powers
vested in it, the UGC has been
providing guidelines and
promulgating regulations encompassing various aspects
such as syllabi, pedagogy,
evaluation, autonomy, the
appointment of vice-chancellors V(Cs) and faculty, new
courses, and pay scales of
teachers. Different state governments have incorporated
some (not all) of the UGC
recommendations for imlementation through their
Acts and Statutes. Many
of these suggestions remained
unexecuted, apparently, due
to constraints of state universities in putting up good
infrastructure apart from
human, financial, and material resources. However, until
recently, there has been fairly
od synergy byway of cooperation and compliance between
the UGC and state universities,
operating in a federal setup.
The introduction of the New
Education Policy (NEP) 2020
and its haste, were a states such
as Karnataka, Kerala, Tamil
Nadu, West Bengaland Punjab
vich non-BLP governments)
are opposed to many prescriptions conceptualised by the
Policy. This is largely because
the states insist that it is their
perogative and privilege to
have ducational policies of
their own and hence, have
beauty rejected the imposi-

nave educational poincies of their own and hence, have bluntly rejected the imposition by the UGC. The impasse turned worse recently when the UGC circulated the draft regulations on the appointment of VCs wherein the state governments are stripped of their authority fromminateone member (who acts as chairman) of the search-cum-selection committee. Exclusion of state governments is held as a direct onslaught by the UGC on the autonomy of state governments. The controversial issues have legal implications as they relate to centre-state relations in a federal setupon as ubject falling in the concurrent list.

The following steps towards

a functional rapport between the UGC and state universities might pawe the way for a harmonious partnership resulting in better quality of higher education on recessarily imparted only by a few islands of excellencelike liMs, ITIs, NITIs, and the IISc.

The UGC should assume the role of a facilitator, advisor-mentor and watchdog, leaving to state universities the implementation of their guidelines/regulations. Universities have diverse characterish terms of governance, infrastructure, finances, faculty, and other requisites. Any tangble set of regulations should have an adequate timeline for higher education institutions (HEIS) – specially the illequipped ones - to explore the feasibility of the implementation. The roles of UGC and state universities should be complementary and not contradictory.

tradictory.

Support beyond guidelines

Mutual coordination, cooperation, and consensus should prevail instead of dictatorial approaches and consequential revolts. UGC recommendations should necessarily accompany apackage of financial assistance to empower the state universities. The apex body cannot merely be ritually suggestive but needs to be effectively supportive but needs to be effectively supportive as well. The UGC should encourage state universities to have their agend and development superimposed with the quality benchmarks set by the NAAC. Grants from the UGC could be commensurate with the acad

Grants from the UGC could be commensurate with the aca-demic status of HEIs. It is time the UGC adopted a new para-digm of grant distribution to ensure that well-performing state universities obtain sub-

ensure that well-performing state universities obtain substantial support.

All state universities shall endeavour to comply with the feasible suggestions of the UGC. It should be borne in mindthat there is no substitute for quality, and in the present competitive scenario, no HEI can offer poor education in a substandard setup – an exercise that will nurture intellectual banksuptes.

The UGC should adopt a level-playing field for the expansion of higher education as the present policy discriminates between a state university and a deemed-to-be university in provisions such as opening

in provisions such as opening

off-campus centres.
The NEP is a good document by vision and design with novel concepts of multidisciplinary and interdisciplinary course concepts of mutudescipinary course delivery. But the stark reality is that colleges affiliated with the universities (barring a few innetropolitan areas) are unprepared for offering a four-year honours programme with multiple exits and entries.

The need of the hour is constructive interaction between the two principal stakeholders to ensure quality higher education coupled with productive knowledge and employable skills. (The uvriter is a former

RIGHT IN THE MIDDLE

A seat to stand up for

I don't mind being called qjji; feeling like one is a bother

SUDHA NARASIMHACHAR

A stravel by metro these days, I'm often touched by the kindness of strangers. A young girl will stand up and say, "Anuty, please sit here," or a young man will gesture to a vacant seat beside him, asqing, "Aig," ill banni, koothkoli" (Grandma, come hard sit). These acts of courtesy make me feel appreciated and valued. Very rarely do some people avoid looking at me for fear of loosing their seat or feeling guilty for refusing to let me sit as I struggle to balance and stand straight. However, I'm also reminded of the mess when I offered my seat to senior citizens, pregnant women, or mother with infants while communing to work by BTS and later BMTC buses. Though

I'd like to decline the offer and say, "Parwagilla. I can manage," my body often betrays me, and I gratefully accept the seat, feeling a mix of gratitude and suit.

often betrays me, and I gratefully ac-cept the seat, feeling a mix of gratitude and guilt.

We have all heard the refrains: age is just a number; it's all in your mind: and you can feel young a tany age. Although very inspiring to read, these affirma-tions are difficult to lively. Sometimes, there are things over which we have no control, however much we try. It is intimidating to see super senior citi-zens who do undertake unthinkable feats such as run marathons, climb mountains, trek miles together, travel continuously, paint, make sculptures, conduct courses, pursue studies and so many other things – and succeed. Shouldn't they be inspiring us? I don't know. Actresses Vjajayanthi Mala, Hema Malini, Rekha and Helen con-tinue to enthral audiences with their graceful dances in their late seven-ties, eighties and nineties! God bless them. While mentally I want to be like

these blessed beings, physically I am unable to match their energy levels. Even as my mind drives me to do so many things, my aches and pains hold

me back.
To shake off the feeling of decline,
I attended Ram Navami events at my
school in Secunderabad, where I reconnected with classmates. For three days, we relived our teenage years, sharing laughter and positive memo-ries. It was a rejuvenating experience that helped us face our daily challenges with renewed enthusiasm.

with renewed enthusiasm.

Don't get me wrong. I don't mind being called aff, but what puts me off is that I have started looking and feeling like an aff, who needs to be shown extra care and compassion. It is a reminder of my advancing age and the times to come.

Though I don't try to hide my age or pretend to be younger, I do want to stay fit and strong so I can continue to help others. It is a universal desire that I share with many.

LETTERS TO THE EDITOR

Karnataka govt's special action force is a reassuring step

Apropos Action force to curb communal unrest; Three held for Bantwal murder (May 30), is both timely and reassuring. The Karnataka government's decision to establish a special action force to curb communal violence in sensitive districts is commendable. The swift action taken in arresting the suspects involved in Abdul Rahim's murder demonstrates strong intent and coordination, Given the escalating tensions in Dakshina Kannada and neighbouring areas, such proactive

and specialised intervention is necessary. The deployment of a trained unit comprising personnel from the Anti-Naxal Force will undoubtedly act as a deterrent to miscreants and instil a sense of security among citizens. This is a laudable step towards ensuring pead and upholding the rule of law. One can only hope that this force remains apolitical, efficient, and community-friendly in its operations.

Unnecessary row

CHINECCSSAITY TOW

Kamal Haasan has at a promotional
event of his yet to be released film
in Chennal, kicked up an unneces
sary controversy by claiming that
Kannada was born out of Tamil.
This assertion is inaccurate, as both
Kannada and Tamil are Dravidian
languages with their own distinct
histories. Both languages have been
conferred classical languages status.
The controversy sparked by
Kamal Haasan's comments is
unnecessary and unwarranted,
particularly at a time when South
Indian states should be presenting a
united front against the imposition
of Hindi.

R Jayaprakash Rao, Mysuru

Setting the record right

BJP MP Yaduveer Krishnadatta Chamaraja Wadiyar's efforts to set the record straight regarding the founding of Hindustan Aeronauties Limited (HAL) in Bengaluru are commendable. Contrary to popular misconception, it was Walchand Hirachand who founded the company in 1940, with support from the Maharaja of Mysore, Jayachamarajendra Wadiyar, not Jawaharlal Nehru. As any HAL employee cantest, a bust of Walchand Hirachand is proudly displayed at the entrance of HAL, and the company celebrates Founder's Day to honour his legacy.

his legacy. V K Prahlad Rao, Bengaluru

Eroding soft power Apropos 'Harvard Pushback, Key to Idea of America' (May 27), universities are considered a soft power in America, showcasing ideals like pluralism, tolerance, and freedom of thought. However, the recent freeze on a Sz.2 billion federal grant to Harvard University and demands, including reporting students who violate laws, seem like attempts to control universities.

Our readers are welcome to email letters to letters@deccanherald.co.in (only letters emailed — not handwritten — will be accept ors must carry the sender's postal s and phone number.

SMA: Debilitating and costly

ifteen years ago, Rashmil Sampath noticed that her seven-monthold daughter Deeksha couldn't independently sit and stand. After multiple specialist visits, tests and treatment options explored over one and a half years, Deeksha was diagnosed with Spinal Muscular Attrophy (SMA) Type 2. a progressive neuromuscular disease leading to gradual muscle wasting.

neuromuscular disease leading to gradual muscle wasting. "We did a DNA test, and that is how we learnt about SMA. Had we "We did a DNA test, and that is how we learn tabout SMA. Had we known to recognise signs earlier, maybe the treatment could have been started earlier," said Rashmi. In 2021. Decksha, on a wheelchair since she was eight years old, started taking Risidplam, another started taking Risidplam, and shap er bottle. Had her medication costs not been covered under a compassionate access programby Roche Pharma, it would have been difficult for her family to afford her treatment. Keerthana, another child with SMA, also had treatment delays, impacting her progress. Her parents, HN agashree and Kishore, bottle government employees, have to spend Rs 50-75 laka nanually for the treatment of the two year-

bothgovernment employees, have to spend Rs 50-75 lakh annually for the treatment of the two year-old. "We are getting three bottles free for the cost of two, but it is still quite expensive for us. She needs 4.4 mg of the oral solution every day. We need two bottles of 60 mg a month, since one bottle lasts about 18 days. We buy two at once and pay about Rs 12.4 lakh and get three more free with them?, asid Kishore. "After a year, only two bottles will be given for free. These costs will increases when Keerthana's weight increases and the dosage will go up." said Nagashree, who lamented that they had not yet received any government supports of ar. The Delhi High Court's March 2025 order allowing Hyderabat-based Natco Pharma to develop a generic version of Risdiplam and rejecting the piea of patent holder Swiss pharma major F Hoffmann-La Roche Limited for over two lakh SMA patients. The Roche Pharma has now appealed

to the Supreme Court. If Natco is successful, it can offer Risdiplam for an estimated cost of Rs 15,900 per 60 mg bottle.

However, doctors, families of patients, and activists argued that this might not be enough. They urged the government to step in and talk with the manufacturer and bulk buy the medicine to reduce the annual costs of the families of SMA patients.

"If a family has a strong background of SMA cases, we suggest parents undergo genetic testing and counselling to rule out the possibility of SMA. Even if nobody in the family has disease manifestations at all, but we do nerve conduction studies we do nerve conduction studies

but we suspect SMA in the baby, we do nerve conduction studies and electroneuromyography (ERMG) tests. Dr Shiva Kumar HR, a consultant neurologist in Bengaluru, said.

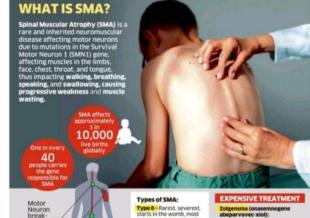
Dr Kumar noted that deaths occur due to complications arising out of the disorder, not the disorder itself. "Over time, it weakens respiratory muscles, causing patients to die due to Type II respiratory failure. Life expectancy can be prolonged with gene therapy, but it cannot be called a cure because once a degeneration has begun, it cannot be reversed, "besaid.

Prasanna Kumar Shirol, founder of the Organisation for Rare Diseases, 2021, its assistance was imitted to the one-time payment of Rs 50 lakh per patient. "Sustainable funding is the only wayout. With an ICMR-rated 50%, foreatment effectiveness for SMA, government support, regardless of the cost is essential." be said the validation of the cost of the cost is essential." be said for the cost is essential." be said of the cost is essential."

government support, regardless of the cost, is essential," he said, adding that not only the Centre but the state governments too needed

the state governments too needed to step in.

"The governments can develop a standard operating procedure for every rare condition like the inclusion and exclusion criteria for treatment, and the criteria for extending treatment is. They can then get into talks with the pharma companies, figure out drug supply for a fixed period and monitor drug effectiveness with timely reviews," suggested Shirol.



babies can never sit.

Type 2 – Symptoms show between 6 and 18 months. They can live long with care and support. They can sit but cannot stand or walk without help.

without help.

Type 3 - Starts after 18
months, Patients can leaa
a normal life, can walk,
but their movement can
stop at any time.

Type 4 - Mildest, usually
develops after 10 to 18
years of age. Normal life
expectancy, but patients
are weaker.

The Delhi High Court allowed Natco Pharma to manufacture a generic version o Risdiplam, rejecting the plea of patent-holder Roche, which late appealed to the Supreme Court.

Rs 16 crore

Orally administered, RS 6.2 Iakh per bottle, **Rs 72 lakhs** per year for children, and up to **Rs 2 crore per** year for adults.

Natco Pharma's generic version of Risdiplam is expected to be available at approximately

\$125,000 (approximately **Rs 1.06 cr**) per injection, totalling **\$750,000** in the first year and **\$375,000** in the following years.

'Generic drugs can bring hope'

r Ann Agnes Mathew, a consultant paediatric neurologist and neuro-muscular specialist based in Bengaluru, treats nearly 600 SMA patients from across India. In an interview with DH's Udbhavi Balakrishna, she Uddnavi Balakrishna, she highlighted key bottlenecks in the diagnosis of the SMA, and shared her views on expen-sive treatment Excerpts:

How serious is the incidence of SMA?

incidence of SMA?
SMA is the most
common inherited
cause of infant death.
India bears one-sixth of its
global burden. The incidence
rate is about 1 in 6,000 to
1 in 10,000 births. We can
estimate that around two lakh
babies are affected in India at
any eigen time.

Why is the treatment for SMA prohibitively expen-

SMA prohibitively expensive?
This is a question better addressed to those who develop these medications and the pharma companies. Yes, it is a revolutionary therapy, and those who reasearch and develop drugs need to be remunerated, but a lot of patients families feel as if they are being held hostage to high medication prices with no viable alternative.

What are the roadblocks to

What are the roadblocks t improving the accessibilit and affordability of SMA medications in India? We have a Rs 16 crore gene therapy that pharma companies sometimes gay gene therapy that pharma companies sometimes gave free of cost or at a lesser price, until last year. Then we have Spinarza, which is produced by a company that is not interested in coming to India, and which is being made available to only a few in India through a humanitarian access programme. We also have Risdiplam, the cost of which has come down from Rs 2.5 crore to Rs 73 lakhs per year. Thanks to the gener-

osity of the Tata Blue Tree programme, if you buy two bottles, you get three bottles free. So, for five bottles, you pay Rs 2.4 lakh per bottle. The same bottle in China costs Rs 48,000. Some families have reported that it costs Rs 25,000 in Pakistan and Rs 50,000 in Indonesia. Many of my patients are currently going to hospitals in China and buying it. Chinese authorities negoriated with the pharma company manufacturing Risdiplam and bought the medicines in large quantities, thus

in large quantities, thus iaking it easily accessible for eople. I hope we can make people. I hope we similar progress.

Can we address the problem by developing generic ver-sions of the drugs?

sions of the drugs?
Yes, that would be the way forward. We have the numbers to make these drugs accessible and still profitable or sustainable. Karnataka's Centre for Human Genetics has developed nutraceuticals for many rare diseases for one-fourth the price. Natco wants to manufacture Risdiplam at a highly subsidised price, but this is currently a matter for the courts to decide.

the courts to decide.

What urgent actions should the government take? The government has made a lor of inroads in this field, but we need more. The government holding discussions with all the stakeholders would go a long way. The Kerala government held talks with the pharmaceutical companies and was able to offer Risdiplam at a cheaper rate. In 2021, a family had crowdfunded Rs 48 crore for their baby, who unfortunately died. The state government negotiated with the pharma company and utilised the fund to offer the drug to other children. Rajasthan is also beginning to follow this model. This is an example that could be adopted.

SCIENCE & ENVIRONMENT

Some glaciers will vanish no matter what

793

t of the 3,424 reg

It is the leading inherited cause of infant mortality

India has one-sixth of the world's burden of SMA cases

The Supreme Court stayed a Kerala High Court order for the Centre to provide medicines worth Rs 18 lakh over the Rs 50 lakh cap to an SMA patient. The Centre had challenged this order

A study shows that glacial ice will melt for centuries even if global temperatures stop rising now, writes Rebecca Dzombak

here's news about glaciers, and it's grim. Regardless of climate mitiga-Regardless of climate mitiga-tion strategies, the world's gla-ciers are on track to shrink sig-ificantly over hundreds of years, according to a new study published Thursday. They're locked into losing ice. Event if global temperatures stayed where they are today for the next 1,000 years, essen-tially an impossibility, glaciers outside of ice sheets would lose roughly one-third of their mass, researchers estimated. But there's still hope to avoid the most severe losses, the assessment said. Limiting

mass, researcners estimates.

But there's still hope to avoid the most severe losses, the assessment said. Limiting warming to 1.5 degrees Celsius, or 2.7 degrees Fahrenheit, above the preindustrial average could save about twice as muchice in a millennium as if the planet warmed by 2.7 degrees Celsius, the riajectory the world is currendy on for 2100, according to the study.

"Every tenth of a degree less of warming will help preserve glacial ice," said Lilian Schuster, a glacial modeller at the University of Innsbruck in Austria who helped lead the research, which was published in the journal Science. "With ambitious climate measures, we can save a lot office."

The massive ice sheets that cover Antarctica and Greenland get a lot of attention in the climate change discussion; if they melted, sea levels would rise more than 200 feet, flooding coastal cities around the world.

But glaciers found in mountains and near the marsing of fee sheets play a small but

coastal cities around the world.

But glaciers found in mountains and near
the margins of ice sheets play a small but
significant role in the climate change story,
too. They make up less than half of 1% of the
world's ice and, if they melt, hey would contribute about 1 foot to global sea level rise.
As glaciers melt, they can also increase
the risk of dendly floods and landslides. A
valeait collanse in Switzerland this world der
also increase or some content of the switzerland.

glacial collapse in Switzerland this week de-stroyed most of an Alpine village. And if gla-

stroyed most of an Appine vinage. And it gra-ciers shrink enough, communities can lose crucial sources of freshwater for drinking, irrigation and hydropower. Glaciers are melting much more rapidly than ice sheets in response to global warming, in part because they are smaller.



The Lewis Glacier on Mount Kenya, one of the few glaciers in Africa, in March, AFR

"Glaciers are really symbolic of climate change," said Harry Zekollari, a glaciologist at the Vrije Universiteit Brussel, a Belgian research university, who contributed to the

ew study.
Glacier retreat has captured much attenon in recent years, but the losses so far apearto be only a harbinger of bigger problems

Using eight different glacial models and excluding ice sheets, the researchers and excluding ice sheets, the researchers analysed how more than 200,000 of the world's glaciers would respond to 80 different climate scenarios, over thousands of years, in which the planet reached a certain temperature and then stopped warming. The models showed the researchers how long it would take these glaciers to stabilise.

or stop changing in response to the initial

ur sup changing in response to the initial climate warming.

Even if warming stops at 1.2 degrees Celsius above preinductrial levels, the average warming over roughly the last decade, glaciers are on track to lose significant volumes of leve within a millennium, the study found. The median ice loss was about 40%, which would adout 10 centimetres to sea level rise.

Because the planet has already warmed at least 1.2 degrees Celsius, that ice loss and its resulting sea level rise are unavoidable.

Bigger and flatter glaciers with more ice respond more slowly to climate change, taking hundreds, if not thousands, of years to stabilise after a temperature shift, the study found. But most climate models stop at 2100.

"We project the loss for the rest of the century, but we don't really know what happens next," salf Romain Hugomes, an Earth scientist at the University of Alaska Fairbanks who uses remote sensing to study glacier change and was not involved in the study. "If's really important to look at it this way."

If warming instead stopped at L5 degrees Celsius, the median estimate suggests that glacial ice loss would creep up to nearly half he current global mass. And at 2.7 degrees Celsius, the Climate Action Tracker estimate for 2100 based on current climate pledges, the median sulure for glaciers' ice loss would be about 75% of their mass.

"A large chunk of these glaciers ice loss would be about 75% of their mass.

"A large chunk of these glaciers are going to belost regardless of what wedo," said Mauri Pelto, a glaciologist at Nichols College in Dude is the westudy, Söll, policies around mitigating in the new study, Söll, policies around mitigating climate change and reducing emissions can help avoid the most severe ice-loss scenarios and save the larger glaciers, both he and the study authors stressed.

"We have time to alter the climate," Pelto said. "We have time to after the climate," Pelto said. "We have time to preserve those glaciers.

Scientists are also exploring "overshooting" warming thresholds, where the world warms beyond a given temperature and then

said. "We have time to preserve those glaciers."

Scientists are also exploring "overshooting" warming thresholds, where the world warms beyond a given temperature and then cools down again. Another study by Schuster, published in the journal Nature this month, found that overshooting 3 degrees Celsius of warming and then returning to 1.5 degrees Celsius would cause about 11% more glacial ice to be lost by 2500, in addition to the unavoidable ice loss.

The results were about what was expected, but still alarming. Hugonnet said. Having multiple models from multiple teams around the world home in on the same outcomes, even with somewhat wide ranges, made the results more robust.

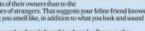
"There's probablymore work to be done to see which models perform the best," Hugonnet said. But welknow there will be a substantial loss pretty confidently."

The New York Times



Your cat knows yourscent

or animals that are warm and fuzzy, cats have a penchant for independence or even aloofness. They tend to
have their own ideas about what they should be doing,
which may or may not align with the wishes of their owners.
Cats' independent natures may be a factor in why
research into their behaviour has lagged behind scientific
explorations into those of other domesticated animals,
including dogs.
However, in a study published
on Wechnesday in the journal
PLOS One, Hidehiko Uchiyama,
a professor of animal science at
the Tokyo University of Agriculture and his team obtained
some research findings on feline
behaviour, establishing that
cats respond differently to the
scents of their owners than to the
odours of strangers. That suggests your feline friend knows
what you smell like, in addition to what you look and sound
like.
Though preferrals from friends and colleagues the



odours of strangers. In the suggest your to look and sound like.

Through referrals from friends and colleagues, the researchers recruited 30 cats and their owners to participate in the study. The cats' owners acquired their scents by rubbing cotton swabs behind their ears, between their toes and under their armijss. Eight additional people who didn't own pets and were unaware of the cats' owners were recruited to be "dour donors."

Each of the study cats, in the comfort of its own home, was then presented with an array of test tubes containing the smelly cotton swabs from its owner, a stranger and a blank control. A camera mounted on the experimental setup recorded the cats' reactions to the test tubes.

The cats spent more time sniffing the samples from the strangers than from their owners' as entication that the cats could recognise their owners' scents and devoted more time to exploring the ones they'd never smelled before.

Uchiyama and his colleagues further analysed video recordings of the cats sniffing the test tubes. They observed the cats predominantly using their right nostrils to smell the stranger's test tubes, regardless of where the tube was placed within the array. These findings seemed to corroborate previous studies of other animals, including dogs, which also led with their right nostrils when exploring strange secents.

The left nostril is used for familiar odours, and the right

which also led with their right nostrils when exploring strange securities used for familiar odours, and the right nostril is used for new and alarming odours, suggesting that scenting may be related to how the brain functions," Uchiyama said. "It is likely that the right brain is preferred for processing emotionally alarming odours." Siracusa urged caution in interpreting whether the cats' sniffing behaviour relates to brain function. The New York Times



Building on a strong base

The takeaway from the latest GDP numbers is that India's macroeconomic fundamentals remain sound. Policymakers deserve credit for this

The Indian economy grew at 6.5% in the fiscal year 2024-25 and 7.4% in the quarter ending March 2025. Both these numbers are higher— the latter much more than the former—than the 6.3% and 6.8% projection by a *Bloomberg* poll of economists. Is the state of the economy much better economists. Is the state of the economy much better than what the pundits thought it to be? A more informed answer requires looking beyond the headling print. Gross Value Addition (G/A) growth in the quarter ending March 2025 is 6.8% compared to the Gross Domestic Print (GDP) print of 7.4%. This means that fiscal consolidation, most likely a reduction in subsidy payments, has generated significant tailwinds for the GDP. To be sure, the GVA and GDP growth difference is much lower (0.1 percentage point) in the 2024-25 annual number.

The larger takeaway is that the Indian economy is pretty much on the same trajectory as was believed to be the case before Friday's data was released. The second advance estimates released on February 28 projected an annual GDP growth of 6.5%. If RBFs Monetary Policy Committee (MPC) April 2025 forecasts — they were made after Donald Trump's "Liberation Day" tariff announcements and saw a downgrade by 0.2 percentage points from the February forecasts — are to be believed, the growth rate will remain the same as $2024\text{-}25\text{'s}\,6.5\%$ in the fiscal year 2025-26. These numbers should disabuse us of the notion that things have changed drastically on the economic front in the past couple of months. With this caveat in place, what is the larger economic picture?

India is still the fastest growing major economy in the world. If International Monetary Fund (IMF)'s projections are to be believed, it will become the fourth-largest economy in the world by the end of this fiscal year. However, the fact is also that growth has slowed from its initial post-pandemic rebound. This is to be expected as pent-up demand dissipates. Also, fiscal consolidation is in the works and government capex tailwinds might have peaked. That all this is happening along with an unprecedented turbulence in nappening along with an unprecedented urbulence in the global economy, thanks to Trump's trade policy shock, might add to downside risks to growth. To be sure, this is not to say that there are no tailwinds going forward. Private Final Consumption Expenditure (PPCE) has grown at 7.2% in 2024-25 compared to 5.6% in 2023-24. Given that we are now in the middle of a monetary easing cycle, personal consumption could gain further momentum. The upward revision in income tax slabs in the budget — basically a boost to net disposable incomes — should also help. However, both Government Final Consumption Expenditure and Gross Fixed Capital Formation have lost growth momentum — 2.3% compared to 8.1% and 7.1% compared to 8.8% — between 2023-24 and 2024-25. The biggest X factor for the economy, however,

remains unchanged as far as the past few years are concerned. Will private capex finally gain momentum and emerge as the key driver of a sustained growth revival? The jury is still out on this question and this is one issue where the so-called animal spirits will matter more than a policy intervention. Given the global economic turbulence, recovery of private capex will depend a lot more on the domestic market than export prospects and it is better to maintain a sober outlook. What cannot be overemphasised enough is the fact

that India's macroeconomic fundamentals remain intact and policy making deserves a lot of credit for this. Things could have been significantly worse had { THIRD EYE }



How the Left and Congress misread Operation Sindoor

Criticism of the government over its handling of the military conflict is completely at odds with the public sentiment

with the public sentiment

ot so long ago, Yogendra Yadav, otherwise a Breco critic of the Narendra
Modi government, told me that a mong the things those opposing the property of the property of the Narendra Modification of the Narendra Modificatio

trapped in textbook ideas and how most of the country thinks and feels. I experienced this first-hand when author Salil Tripathi mocked me on X for evidently "rolling my eyes" at the statements of former Pakistan foreign minister Hina Rabbani Khar on a Piers Morgan show where I was her co-panel-ist. Yes, I probably did roll my eyes as one brief point when Khar ofbuscated on how Osama bin

Laden was kept in hiding by the Pakistani deep State. But I also hammered home the protection and impunity offered to terror groups like the Lashkare-Falaba and Jaish-e-Mohammed in Pakistan by its army. Khari feel the show early, unable to answer anything directly, But Tripathi and his followers said I was guilty of "temporary patriotic nonsense" and that a should be very embarrassed. Everything that plagues the extreme Left's commentary on Operation Sindoor was encapsulated in that every moment. Or take the semiotics debate around the name given to the military operation against Pakistan. Or take the semiotics debate around the name given to the military operation against Pakistan. Or the commentary on Ashways Rail sporting sindoor at her first appearance at Cannes. Mohammed Zubair, fact-checker, thought there was a big conspiracy that I shared this image of the ceiting it come to Dy Sindoor on their singular than the control of the ceiting it come to Dy Sindoor on their singular than the control of the ceiting it is not to the ceiting it may be a sufference of setting by the body of her and the ceiting it has a sufficient of the ceiting it in the ceiting it of setting by the body of her and the ceiting it has a sufficient on the ceiting it in the ceiting it is that cross to gine the traditional red bangles or churr that signified her days-old marriage? Whatever be one's personal gender politics, it is ladicrous to ginere the cultural zeitigeis or to the rails ets underlying Shash! Tharroor gets this. The Congress party, in its current awatar, really does not. Sure, you can say that by choosing Tharoor to lead a key bigartisan designation on Operation Sindoor, and by dis-

INTELLECTUALISING WHAT COMES TO MOST INDIANS INTUITIVELY, A SIMPLE EMOTIONAL SURGE FOR FLAG, ANTHEM AND MILITARY, CONFINES THIS SECTION OF THE LEFF ONLY TO ECULO CHAMBERS TO ECHO CHAMBERS



The level of disconnect between those still trapped in textbook ideas and how most of the country thinks and feels is astonishing.

country thinks and feels is astonishing.

regarding the names the Congress had chosen for itself the BiP played a hand of politics. But nothing stopped the Congress from pre-empting this by including Tharoor, among the most effective voices of hidna advocacy, alongside others in the national Opposition, such as Asaduddin Owalsi and Manish Fewari, in their own amouncement. By leaving him out of their chosen delegates, so that he looked like the choice of Prime Minister Modi and not Rahul Gandhi, the Congress displayed both petities and insecurity. By attacking him in public now, the party displays a complete failure to read the national sentiment.

Of course, the Opposition can, and used a complete failure to read the national sentiment. There are legitimate concerns over where the terrorists of Pahalagan are, what lapses led to the terror attack, or why US President Donald Trump insists on claiming credit for a halt in hostilities that were unequivocally triggered by India's military victory. And, yes, there are legitimate concerns about India-Pakistan re-byphenation in the West, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the West, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the West, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the West, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the West, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks to Trumps bizarer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks to Trumps sharer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks to Trumps hizarer heteraconcerns about India-Pakistan re-byphenation in the Mest, thanks Trumps hizarer heteraconcerns about India-Pakistan re

India has lost, is entirely uncalled for and takes away the legitimacy of any other good point you may want to make.

Thankfully, the Congress dropped this attack a couple of days after Rahul Gandhi led it. But political damage to the party had been done.

Yes, as the main Opposition party, the Congress does not find itself in an easy position. It is dammed if it does and invisible if it doesn't. The Lamber of the Congress wants to contest that. Fair enough. But can't counter the BIP by discowning its most brilliant asset on the issue — Tharoor — and other colleagues such as Tewart. And it can't counter that by using the taiking points of the adversary on whether any fighter jet was shot down. Not when Air Marshal AK Bharri already answered that by saying. In a combat three will be losses, but lour places are not the tissue of the content of the con

Barkha Dutt is an award-winning journalist and author. The views expressed are personal

Rising defence prowess key to Viksit Bharat goal

Indias defences sector as the new fulcrum.

Indias defences sector as the new fulcrum of sovereign assertiveness, also reflects a tectonic roorientation in the strategic doctrine and (self-reliant) Binara lindia's defence exports have risen 33 times in the past loyears, from SI3 million in PY16 to \$2.5 b fillion in PY16 to \$2.5

warfare capabilities. Furthermore, if India sustains its current growth momentum, its defence exports are poised to cross \$5 billion by 2000. The confluence of this industrial build-out with the Centre's allocation of \$1.12 lash crore towards domestic defence production, with more than \$27,000 crore earmarked for her private sector, signals a transition from buyst-seller asymmetries to a collaborative o-development paradigm. This shift can elevate India's position in the global defence value chain, particularly for aerospace platforms. India's Presence and caccumis for 13.4% of the total Union budget for the fiscal year. This marks a strategic realignment towards comprehensee military moderatisation and national security preparadness.

The capital outlaw of \$1.80 lash crore

Soumya Kanti Ghosh

emisation and national security pre-paredness.
The capital outlay of ₹1.80 lakh croe-freflexts a deliberate pivot towards indig-enous defence manufacturing, bolstered by a 45% surge in the capital budget of the Indian Coast Guard and a significant ₹7.46 crore allocation to the Border Boads Organisation (BRO). Notably, defence R&D witnessed a 12% increase, with enhanced support for innovation through schemes like IDEX and Acing Develop-ment of Innovative Technologies with IDEX (ADITI). This recalibrated fiscal trajectory under-

cores a paradigm shift in India's defence sector utlook, one defined by technological infusion, trategic autonomy, and economic multiplier

outlook, one defined by technological infusion, strategic autonomy, and economic multiplier effects.

Amidst this, China's martial-industrial edifice, long waunted for its scale and spectacle, appears increasingly enumbered by the weight of its own contradictions. Like a glant with feet of clay, Being's defence establishment has showcased its technological feats with dramatic flair, yet beneath the surface lie cracks of overreach, secrecy, and rigid strategy. It is no wonder that following the cessation of India–Pakistan conflict for the time being, Chinese defence equities are coming under serious correction, with serious doubts now being raised about the capability of their defence systems. China's share of global arms as prospers, at 5.9% between 2020–24 (this is as per SIPRI), is down from earlier constitution of the capability of their defence systems. China's share of global arms as prospendency, Owe 67% of these exports flow to a narrow set of clients, with Pakistan conflicts. An export profile shackled by political same as the fulcrum, rendering Beiling's ambitions of becoming a global defence overteach, credibility over choreography, and co-development on a single, often unstable, axis. While China remains are merging model privileges resilience overteach, credibility over choreography, and co-development over coercive export ppelium of its geopolitical partinerships. While historical dependence on Russian platforms remains substantial, find is increasingly pursuing joint development and kennes drown and construction of the geopolitical partinerships.

ing joint development and licensed produc trangements with technologically advance

yet strategically non-aligned states such as Armenia, the UAE, and Indonesia, thereby insulating its defence supply chains from great power entanglements and rendering its strategic autonomy both more credible and operationally viable. Meanwhile, policy instruments such as the Production Unixed Incentive (PLI) scheme and sectoral Foreign Direct Investment (FDI) Bleralisation to up to 74% via the automatic route have converged to establish a facilitative investment architecture that is simultaneously protectionist in vision yet liberal in execution. As global defence budgets continue their secular ascent in response to escalating multipolar frictions, India finds itself root just a passive observer but a participatory actor in the emerging security-industrial continuum, where defence is no longer a revenue draining esigney but a profit generating employment intensive, and diplomatically potent sector capable of reshalping the alignments and security cartographies.

India's defence sector is transcending its his-

reshaping trade alignments and security cartogra-phies.
India's defence sector is transcending its his-torical shackles and assuming a pivotal role in anchoring macroexonomic stability, technologi-cal innovation, and global strategic relevance in a volatile, uncertain, and increasingly securi-tised world order. As the government operation-alises its vision of Vikisti Bharatqi2047, the defence apparatus is not only being fortified against contemporary security threats but also positioned as an engine of innovation-driven growth, seamlessly integrating geostrategic imperatives with industrial advancement. This perhaps could be the most fitting tribute to Indian defence forces.

umya Kanti Ghosh is member, lőth Finance mission, and group chief economic advisor, State Bank of India, and Falguni Sinha is conomist, State Bank of India. The views expressed are personal.

Why Kannada deserves more than apologies

et me just come out and say it: Kannada-dalli maarhadi. Which is ilke
saying, Hindi mein baath kijiye. Or
Tamith pesu. I have chosen these
three languages for a reason. This week,
actor Kamal Hasasan offered up a third
instance of folks being caught in a Kannada
language controversy. The players may be
different, but the script is the same. Singer
Sonu Nigam refused to sing a Kannada song
in his Bengaluru concert and later issued an
apology. An SBI bank manager in Bengaluru was caught on camera speaking in
Hindi to a Kannada-speaking customer and
then proclaiming that she would never
learn Kannada. And now, Kamal Haasan
who said that Kannada was born from
Tamil. All three, in their own way, have cast

aspersions on the Kannada language which, by the way, boasts the largest number of Jnanpith awardees, save Hindi. Do Kannadigas have a chip on their shoulder about their native lan-

their shoulder about their native language? They never used to I. Innow North Indians who moved from Delhi to Bengaluru 30 years ago and still don't speak a word of Kammada. These days though, language tensions have taken over the state. We have auto drivers who demand that their rides speak to them in Kannada. In the past year, vandals broke and removed signs in Central Bengaluru that did not have the text in Kannada. The government had to issue a directive ordering signages that included Kannada, and now, all

over the city, you see signs in Kannada. I moved to Bengaluru nearly 20 years ago. I learned and now speak Kannada. It has opened the city to me in a way that would not be possible without speaking the local tongue. What befuddhes me is that this has become a controversial issue rather than the norm.

has become a controversial issue rather than the norm. If a Kamadiga moves to Kanpur and speaks in Kannada nather than Hindi, do you think the local folks there would put up with if?

Catch a Chennal auto driver giving the Lime of day to anyone who doesn't speak Tamil, and I can say this because I grew up in Chennal. But Kannadigas are expected to speak in Hindi, Tamil. Telugu or whatever language is thrown at the control of the control

it has taken a while for the soul of the Kannadigs, long suppressed, to find utterance. To use
the language of school builder, the people of
Karnataka have put up and shut up for a long
time. Immigrants from all over India have
populated their state and city without assimilating into their language or culture. Isn't language the real route to culture! Simple work of
Indians who have lived in Bengaluru for 30
years and sup that they cannot speak a word of
Kannada. Would this be possible in any other
state or city? I doubt it. Then why should a
Kannadiga put up with this?
I think it is about time the state and this city
get their hackles up to safeguard their language. As someone who has learned it as an
adult, I can tell you that it is not a difficult language. Immigrants come, stay, make their living, livelihood and indeed fortunes from this
state. To expect them to learn the local language is not jingoism. It is the norm in most
Indian states and cittes. Why should Karnataka and Bengalurus eavant durcher.

Shobs Narayam is Bengalurus-baund author.

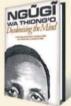
Shoba Narayan is Bengaluru-based author. The views expressed are personal.

HT's editors offer a book recommendation every Saturday, which provides history, context, and helps understand recent news events

CHAMPIONING DECOLONISATION

enyan writer Ngūgī wa Thiong o, who expiored colonialism in his novels, plays, and essays, died this week, aged 87. His family's land, and two of his brothers were killed after the Mau uprising against the British, formed the beckdrop of his best-known novel. Weep Not. Child (1964), published a year after Kenya became independent.

This week, we recommend the Kenyan writer's Cocloniaring the Mint The Politics of Language in African Literature, a classic work that spoke for linguistic Cocloniaring the Mint (1965), thiong of emerged as an important theorist of language in Identity, culture, and history, With The book offers a fresh perspective on the role of language in combating and perspectating imperialsm and no colonialism in Africa, which resonated in academia in post-colonial societies, including India.



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thehindubusinessline.

Tariff turbulence

India should proceed apace with its negotiations

he tariff plans of the Trump administration have entered a phase of dramatic, roller-coaster-like uncertainty. On Thursday, the US Federal Court of Appeals stayed a previous day's ruling by the US Court of International Trade that essentially ruled against the powers of President Trump to slap tariffs on the world at large. The latter said that the President had misused his powers under the International Emergency Economic Powers Act, 1977, by invoking a 'national emergency' clause to slap tariffs.



While the status quo on country reciprocal tariffs has been restored for now, there seems to be no end to the suspense and ordeal for businesses and governments everywhere. The US Supreme Court is expected to weigh in on the subject, while more immediate hearings in the appeals court are to take place early-June. This state of flux throws up some questions for India, which has been in talks to arrive at a trade deal. There has been a sense of quiet urgency in the air to arrive at a deal that holds off 26 per cent tariffs that are expected to come into effect from July 9. It is feared that such tariffs would hurt India's \$85 billion exports to the US, even as India has said that it will not compromise its interests in doing a deal. Now, with the US courts entering the picture, a bruising battle between the courts and the executive is possibly on the anvil. President Trump may or may not succeed in the courts, but he has the numbers in Congress to push through legislation, if he chooses to do so. Besides, as leading lights in his government have already said, the government can invoke other laws to bring these tariffs into

To keep his stock up, Trump may pursue trade deals more aggressively. That he is desperate to show "wins" for his policy is evident from his defence in the Court of International Trade that the promise of greater trade by him is what ended the confrontation between India and Pakistan. One approach for India could be to try to leverage Trump's need for a deal to vindicate his policies, and push ahead to set the terms, precisely when he has been forced on to the backfoot. India's negotiators should cut out the

noise emanating from the legal process in the US and proceed with their negotiations keeping the July 9 deadline in mind. Given that tariffs are the most important component of Trump's MAGA agenda, it is safe to assume that he would use all means to get past the legal hurdles to his tariff policy. A pragmatic approach aimed at a quick deal that grants enough to the US for Trump to claim victory, even while protecting India's core interests in agriculture, pharma, digital rules and e-commerce, should be adopted. Tariff cuts on premium products such as almonds and Harley Davidson bikes, besides agreeing to some defence and energy imports can help India's cause. The prevailing uncertainty on tariffs is not good for India and has to be ended, irrespective of which way the court battle pans out in the US.

OTHER VOICES.

The courts have drawn a line. So must Congress

The courts have drawn a line, 50 must Congress if for eithing is more challenging to the rule of law than a genuine emergency, it is the invention of a phoney one. Since returning to the White House in Jarvary, President Donald Thurph has spended global trade and international relations, whying billions off the stock market in the process, by imposing tariffs that he claims are a necessary response to an emergency. Yet that emergency does not really exist, except in the manner that Mr Turnip himself has created it. The president claimed, on 2 April, that a lack of reciprocity in US overseas trade arrangements was "an unusual and entanordinary threat to the national socurity and economy of the United States". He claimed that this justified him in declaring an emergency and governing by executive decree under the 1977 International Emergency Economic Powers Act (EEPA). Congress, which normally has the responsibility to decide US trade policy, was thus wholly ignored. Indicators



ASEAN: Trump's Tariff Measures Invite Trade Reva

The high tariff policy of U.S. President Donald Trump's administration is causing a global tectonic shift in economic block. Recent moves surround the Association of Southeast Asian Nations (ASSAN) can be said to be a n development that symbolically indicate this. ASEAN held its first joint sum with China and the Gulf Cooperation Council (GCC), a group of six Middle Eastern countries that includes Saudi Arabia, in Malaysia. The joint statem Eastern countries that includes Saudi Arabia, in Malaysia. The joint statement released after the summit included the importance of multilateralism and the cooperation of ASEAN, China and the GCC on promoting trade and investment. ASEAN has convertionally been wary of becoming embroiled in the U.S.-China confrontation, and it has spent a great deal of effort in striking a balance between the two countries. Toxin, May 10.

We should teach engineering in Indian languages

MOTHER TONGUE. Embracing our linguistic diversity can produce engineering graduates who are technically competent and globally more aware



n the heart of every engineerin classroom in India, a quiet yet significant challenge unfolds each day—a challenge rooted not in technical complexity or curriculum overload but in the langua of delivery of instruction and its absorption.

of delivery of instruction and its absorption.

In a country as linguistically diverse as ours—with over 1,869 recorded mother tongues and 122 major languages, the question of how language influences learning outcomes in technical education is becoming more relevant than ever.

Does the dominance of English in engineering education create barriers for our students? Can we become Vikisit Bharas solely based on technical education in English? Are we not promoting aparthed because we are obsessed with English? Are we being inclusive enough by ignoring 34 per cent of the Indian population that is not literate in English? We must confront these questions as educators, academicians, responsible citizens, and as a nation striving to become "Vishwa Guru" and a global leader in technology and innovation.

LINGERING LANGUAGE DIVIDE

LINGERING LANGUAGE DIVIDE English has been Independent India's language of higher/technical education/learning for decades. It is seen as a passport to global opportunities, Yet, for many students, especially those from rural and semi-urban backgrounds, this language is a serious obstacle rather than a tool, blocking their career growth because o their lack of proficiency in English. We have seen this struggle first hand. Brilliant students with exceptional analytical minds falter because the language of instruction allenates them. They are not less capable, but their potential is hidden behind a wall of

potential is muden nential awan or unfamiliar words and technical jargon delivered in a language they are still trying to master, mostly unsuccessfully. The National Education Policy (NEP) 2020 recognises the urgency of addressing this issue through its transformative vision. This is a bold and transformative vision. This is a bold and necessary step, as several studies show that students learn much better when taught in their Matra Bhasha, particularly when it comes to grasping complex concepts. The NEP's vision is to preserve linguistic diversity and give every student an equal opportunity to thrive and excel.

But here lies the paradox: while we must empower students to learn in their native languages, we cannot ignore the reality that English is the global language of science, technology, and business.

Thankfully, we live in an era where technology can be our greatest ally in solving this dogma. Al-powered tool can translate lecture content in real time, making technical concepts made accessible to students in their prefer language. Multilingual learning

English is seen as a passport to global opportunities. Yet, for many students, especially

those from rural and semi-urban backgrounds this language is a serious obstacle rather than a tool. platforms and collaborative projects can leverage the diversity in our classrooms as a resource rather than a hurdle. At II'Ts and other institutions, we

At IITs and other institutions, we continue to explore initiatives to create bilingual learning resources and encourage peer learning groups that support multilingual comprehension. The goal is to create an ecosystem where language is not a constraint but a catalyst for deeper learning. While some might argue that insisting on multilingual education in engineering could dilute our global competitiveness, we view this challenge differently.

differently.

On the contrary, embracing our linguistic diversity can produce engineering graduates who are technically more competent, culturally more adaptive and globally more aware, who can think across literal and metaphorical boundaries.

IT Jodhpur's bold initiative to allow first-year B.Tech, students have the

option to select their first-year courses in either Hindi or English, which has

in either Hindi or English, which has produced excellent and unprecedented results in its pilot deployment in AY 24-25 Semester 1. Situated in the Hindi belt of India, with over 80 per cent of students coming from Hindi -speaking backgrounds, the option of additional choice of medium or joint of the production of the production instruction as Hindi was strategic and student-centred at HT Jodhuser. This initiative aimed to allow a smoother transpition of students from:

This initiative aimed to allow a smoother transition of students from the Hindi medium into the competitive instructional environment of an IFT. The response from students was overwhelmingly positive. They embraced this initiative with open arms, expressing deep gratitude and often sharing how this support has lifted a long-standing weight off their shoulders, giving them renewed confidence, learning experience and belonging.

As B.Tech. first-year student Kanak Khandelwal puts it, "We can ask questions more easily in Hindi because we think in Hindi too". The results from the first semester have shown that students from the vernacular medium now have a great shot at getting top grades, which were inaccessible to them earlier.

earlier.

India's engineers are already at the forefront of solving global challenges.

Imagine the potential we could unlock if we gave every aspiring engineer all the tools to learn in the language they understand best.

tools to learn in the language they understand best. Imagine the innovations that would emerge from classrooms where diverse perspectives, rooted in diverse languages, converge to create something extraordinary.

LANGUAGE, A BRIDGE
India stands at a pivotal moment. Our
education system is transforming, and
our choices shape our nation's future
today. Multilingualism is not a challenge
to be overcome; it is a resource to be
nurtured. It reflects who we are: a
country that thispies in diversity and

nutrured. It reflects who we are: a country that thrives in diversity and finds strength in its differences.

Let us embrace this diversity in our classrooms in institutions of higher learning for the sake of inclusivity of 94 per cent of the population, which is left out of this journey of "Vikas" because of their handicap in English as a language.

As institutes of National Importance, ITN are responsible and able to lead transformative changes. In the end, engineering is not just about formulas and algorithms. It is about building solutions, shaping lives, and creating a world where every voice in every language can be heard and contribute to nation-building.

Agarwal is Director, ET-Jodhpur, Chouhan is an Associate Professor and Head of the Center for Education & Technology for Education at 8T Jodhpur

Climate change reshaping India's monsoon clouds

It is time India invested in climate-resistant agriculture and better forecasting methods to ensure food security

As India welcomes another mon As India welcomes another monsoon season, climate experts are turning their attention skyward — and with good reason. The clouds that bring life-sustaining rain to our fields are changing in ways that could have long-term implications for agriculture, weather forecasting, and climate resilience. resilience. A recent study led by Saloni Sharma,

A recent study led by Saloni Sharma, along with researchers Plyush Kumar Ojha, Valibhuv Bangar, Chandan Saranqi, Ilan Koren, Krishan Kumar, and myself, from the School of Ravironmental Sciences, Javaharfai Nebru University, in collaboration with IT Madras and Weizmann Institute of Sciences, Israel, offers compelling observations defense of how global warming is reshaping India's monsoonal cloud patterns.

itterns. The research, published in Science of the Total Environment (Elsevier, July 2024), focuses on how the vertical structure and type of clouds over the Indian subcontinent have evolved during the first two decades of 21st conture.

century.
For a country like India, where no half the population depends on

agriculture, even subtle changes in

agriculture, even subtle changes in monsoon behaviour can have enormous consequences. Shifts in cloud height and types affect how, when and where rain falls — affecting everything from crop yields to groundwater recharge.

Using 20 years of radiosonde data from 16 locations across India, the researchers found that the number of cloudy days during the monsoon season has increased by around 13 per cent per decade. However, this doesn't mean more low level, rain-heavy clouds. In fact, low-level clouds have decreased by 8 per cent, which high-level clouds — which often trap heat — have increased by about 11 per cent per decade.

which often trap heat — have increased by about 11 per cent per decade. This shift in cloud types is significant. Low-level clouds are typically thicker and more effective at reflecting sunlight, helping to cool the farth's surface. High-level clouds, by contrast, tend to trap heat. The study found that not only are these higher clouds becoming more common, but they are also forming at greater altitudes as the atmosphere warms and expands. Also, lower clouds, which are declining, are typically associated with more consistent rainfall. High clouds, which are increasing, may not precipitate at all or could be associated with the strength of the contract of the con



AGRICULTURE. Climate ready

GLOBAL WARMING

GLOBAL WARMING
These changes in cloud structure are largely driven by global warming, which is altering the thermodynamic state of the troposphere. The study observed the greatest temperature increases in the upper layers of the atmosphere, with the equivalent potential temperature—a key indicator of atmospheric stability—rising more sharply in higher altitudes. This indicates more moisture and heat being transported upward, leading to the formation of high clouds.

The researchers also recorded a rise in tropopause height (the upper boundary of the troposphere) by 480 meters per decade, reinforcing the idea that the atmospheric column is stretching

vertically due to global warming. To further understand the drivers of

To further understand the drivers of these changes, the researchers examined large-scale climate indicators such as the Global Warming Index (GWI), North Atlantic Oscillation (NAO), and ENSO (El Niño-Southern Oscillation). They found strong statistical correlations between GWI (rising temperatures) and the increase in high-level cloud frequency over India.

Their analysis revealed that cloud formation patterns are not merely a local phenomenon, but are influenced by broader, global climate systems. This reinforces the need for India to invest in climate-resilient agriculture and better

reinforces the need for India to invest in climate-resilient agriculture and better forecasting models.

This research offers the clearest observational evidence yet that India's monsoon clouds are being reshaped by climate change. It calls for urgent attention to how these changes will affect our food security, water availability, and disaster preparedness in the coming years.

availatinty, and unaster preparedities in the coming years. As the 2025 monsoon sets in, it is a timely reminder that climate change isn't a far-off threat—it's already in the air around us.

The writer is with the School of Environmental

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

nation's security & prosperity: Rajnath Singh', (May 30). During retaliatory strikes on Pakistan, In Rajnath Singhi, (May 30), During retaliatory strikes on Pakistan, India Make is India mission proved vital. Make is India mission proved vital indigenous deferce production ersured quick deployment of missiles, drones, and surveillance tech without foreign delays. The mission auto fortified supply chains, keeping economic disruptions minimal during geopoletical tension. As global siliances shift unpredictably, self-retaince in defence and economy is no longer optional — it's survival. Surregthering domestic manufacturing boosts jobs,

eserves sovereignty, and builds illience against sanctions or supply blocks. Make in India isn't just policy — it's national security strategy in action

Currency notes blues Apropos 'RBI Annual Report:

Currency printing costs surgery 59% in 5 years' (May 30). It was intriguing to learn that the printing cost of to warn that the printing cost of currency notes has surged 59 per cere during last 5 years. While there could be several reasons for this hike, circulation of such a varied denominations of the bank notes in India is unique. The RBII must take a

Kumar Gupt

30), echoes the sentiments of a vast majority of Indians. India overtaking Japan on the GDP count is sure, stuff for cheerleaders. Pertinent is the ror cheeneagers, Pertners, a the need for more inclusive, equitable and qualitative growth than the quantitative one achieved. The structural changes and accept practices of economic activity have pushed millions off the mainstream This is evidenced in the statistics of

niggardly per capita income, barely enabling survival. The rankings or human development indices are also alsysmal and need corrective action. Time is running out for india to use the tempo of development deliver the fruits thereof more equitably, ensuring qualify basic education and health care, potable water. Hygienic living conditions are available to and affordable for as masses spread across the villages wherein resides the soul of India.

Jose Abraham

wnership of MFs in NSE firms hits cord high of 10%" (May 30) reports

on growth of SIPs. SIPs are beneficial for AMCs since they provide stable, predictable, measurable inflows and hence enable easier investment. SIPs also benefit distributors since they provide stable and long-term commission flows with one-time effort. But they do not really benefit of the MF investors. Through SIPs, they invest at market highs and market lows too, thus carcelling out any benefit of low NAVA. lumpsum investments only on days when the markets are weak and avoid investing on days of market highs, their returns would be better

da Diett. Gautam Budh Nagar, U.P.281306, on behalf of THG PUBLISHING PVT. LTD. Cherwai 488602. Editor:

INDIAN EXPRESS IS NOT AN INDUSTRY, IT IS A MISSION. - Ramnath Goenka

GROWTH-INFLATION MIX SHOULD SPUR SPENDING. PRIVATE INVESTMENTS

NDIA'S GDP growth is blowing hot and cold. If the January-March quarter saw an impressive 7.4 percent growth, beating consensus estimates, the figure for the full 2024-25 fiscal year printed at 6.5 percent—the lowest in four years. Even though the economic momentum seems to have

fiscal year printed at 6.5 percent—the lowest in four years. Even though the economic momentum seems to have picked up in Q4, the projections for the current fiscal are set at 6.2.6.5 percent, implying that instead of a recovery, growth may slow down sharply. The provisional estimates released Friday also show that the Indian economy's size stood at \$3.9 trillion in 2024-25, as against \$3.6 trillion in 2023-24. So it meeds a run-rate of at least 6-7 percent to emerge as the world's fourth largest economy, overtaking Japan at \$4.19 trillion, anytime soon. Besides a higher headline rate, we also urgently need a broad-based growth, not the current mix of sub-sectoral surges. While manufacturing and construction—two key employment generators—picked up pace in Q4, they ended the full year on a disappointing note. Private consumption, a key demand driver, stood at its highest in at least two decades, outpacing GDP growth last year. But analysts suspect that rural consumption was the main engine, while urban spending sputtered. Chief Economic Adviser V Anantha Nageswaran noted that the transmission of interest rate cuts and personal income tax benefits will likely boost urban consumption this fiscal. Helpfully, rural consumption, which saw an improvement due to rising agricultural wages, is expected to retain the momentum, thanks to the above-normal monsoon predicted. While private investments rose in Q4, government expenditure fell with a giant thud. Worse, if sexpected to grow at a slower rate this fiscal, which means we need more private investments now.

Investment demand will likely remain sluggish due to the heightened global uncertainty But a rising domestic demand could, in part, enthuse companies to expand production. Note that Friday's data includes provisional estimates and

heightened global uncertainty. But a rising domestic demand could, in part, enthuse companies to expand production. Note that Friday's data includes provisional estimates and the final numbers will undergo revisions, hopefully upwards. While 2025-26 began on a sour note owing to global trade headwinds, the outlook for domestic growth seems relatively resilient. As Nageswaran noted, at a time when several course are facing stagflation risks, India is witnessing a benign growth-inflation environment. That should spur consumition and investments, paying the way for a steady sumption and investments, paving the way for a steady growth of 7 percent. At least, that's the hope at this point.

KEEP STATE DEVELOPMENT ABOVE PARTY POLITICS

HE pugnacious leader that he is, Telangana Chief Min-ister A Revanth Reddy manages to make it to the head-lines often. He is also a shrewd politician who knows it takes two to tango when it comes to developing the state. As a Congressman, his instincts are in sync with that of his party on several issues. Operation Sindoor just happens to be one of those where sensitivity may serve better happens to be one of those where sensitivity may serve better than sinew. His barbs against the Centre fly like missiles, and his repeated comparison between Indira Gandhi and Prime Minister Narendra Modi resonate with Congress supporters. The other day, he sought to know from the PM how many Rafale fighter aircraft were lost in Operation Sindoor. Polit-cally speaking, he may have thought of bolstering party leader Rahul Gandhi's attacks on the Centre. What is unques-tionable is that he went a step farther than even his leader. Defence matters can be tricky material to use for polemics, especially right after a year. Questings de noset to be eaked

especially right after a war. Questions do need to be asked, but in a non-partisan way. Reddy may feel himself politically but in a non-partisan way Reddy may feel himself politically justified in attending Jai Hind rallies, a counter to the BJP's Tiranga rallies. It should be seen within the context of what should be an integrationist moment, though it is unfortunate that both the national parties appear to be politicising Operation Sindoor. It is time to support the armed forces in one voice at a time when the shadow of conflict has not entirely lifted. Reddy may have no compunction in calling a spade a spade, but he is also keenly aware of the imperatives of running a state. Within a fortnight, he had a meeting with the Prime Minister, where he submitted a wishlist, and during that same necriod he was going for the BJP's is usual. Pre-

the Prime Minister, where he submitted a wishlist, and during that same period he was going for the BJP's jugular Presumably, he knows how to find his way around a paradox. Telangana has set itself a roadmap that's ambitious in relation to its finances, to put it mildly Metro expansion, regional ring road, semiconductor projects—the Centre's role is key in all these. His predecessor K Chandrasekhar Rao's visits to New Delhi to advocate for the state were few and far between. Reddy has been proactive, and rightly so. Politics must never undermine Centre-state relations. That applies as much to the Centre as to the state.

QUICK TAKE

THE LADY'S LAMP SHINES ON

RESIDENT Droupadi Murmu on Friday honoured 15 nurses from across India with the National Florence Nightingale award for their outstanding work. The health ministry had instituted the award in 1973 in the name of the British reformer who, while healing soldiers during the Crimean War of the 1850s, became known as the founder of modern nursing. But it's the work she did afterwards that Indians should happ here. Though she nower set for in the auteoritient. ing. But it's the work she did atterwards that indians should thank her for. Though she never set foot in the subcontinent, Florence analysed health data to propose a thorough revamp of sanitation in Indian cities and villages. She relentlessly advocated for a data-driven, preventative approach to health-care, especially to ensure safe drinking water. It's a work we must rededicate ourselves to complete. AST year, when R Balsubrama-nium's book, Power Within: The Leadership Legacy of Narendra Modi, was launched, one of the reviews pointed out that "while Western thought on leadership is trait-oriented, its light the importance of theirs

that wine western thought on leadership is trait-oriented, [emphasising] the importance of 'being a leader', Indian leadership offers a contrast—it focuses on the 'exercise of leadership'. The book looks at this practice as it captures Bharat's civilisational wisdom through lived experience.

One such example of the 'power within' in India comes from the life and mission of Ahliyabai Holkar, the 18th century queen of Malwa, a princely state in today's Madhya Pradesh. On May 31, the nation celebrates her 300th birth anniversary.

One of the new concepts aggressively propounded by Modi—but rarely discussed elaborately by opinion makers—is women-led development. The concept reflects an innovative, 20th-century approach as it mirrors the interors the

ers—is women-led development. The concept reflects an innovative, 20th-century approach as it mirrors the need for Indian society to graduate from empowerment of women to recognising their leadership.

Women-led development is not just about egalitarianism; it also carries another strong message. Men must realise that more Indian women than ever are in the driver's seat, and that they have to ensure equality. Ahilyabai Holkar stands as a powerful symbol of both women-led development and governance. India has a long list of queens who demonstrated valour and leadership in governance. Such exemplary women can be found across the country—from north to south, and east to west. However, it is rare to find a female leader who not only had a firm resolve to uphold Indian values, but also combined courage and strength with strategic thinking, and pursued a lifelong mission of public service. Ahilyabai Holkar was one of those rare personalities in whom we witness the unique confluence of calibre, courage and compassion.

Contemporary politics in India is under the thick shadow of dynasticism.

courage and compassion.

Contemporary politics in India is under the thick shadow of dynasticism.

Most dynasty-driven political parties are known for special privileges enjoyed by the next-gen dynasts. As against this, history tells us as to how Ahilyabai severely reprimanded her son Malerao for Illegally killing a caff. For her, the rule of law was supreme, and she chastised her son for a serious transversed in semantic control of the was supreme, and see classissed me some for a serious transgression—something the present-day leaders of dynasty-driven parties can learn from.

The very mention of Ahilyabai evokes memories of her historic, nationwide

Ahilyabai Holkar dedicated her life to public service. Her 300th birth anniversary is an apt moment to learn from her leadership that compassion should be extended to the marginalised too

A LESSON IN GOOD GOVERNANCE FROM 18TH-CENTURY INDIA

VINAY SAHASRABUDDHE



Senior BIP leader



work in temple construction as well as their restoration after being destroyed by aggressors. Temples built by her adorn key pilgrimage sites in several Indian states. But her temple construction was not merely a public project—it symbolised the externality of the Indian spirit of endurance, coupled with self-confidence and resilience.

Through the temples she built, Ahilyabai articulated an unwavering resolve to preserve cultural identity. For her, reconstruction of destroyed temples was not just installations of delities, but in a deeper sense, the consecration of national consciousness, too. She is also credited for building shats, keeping both the nesthetic as well as utilitarian value in mind—as can be seen along several river banks across the country.

Though she formally ruled for only two years, Ahilyabai also constructed reser-voirs, ponds and water bodies. She creat-ed a separate department of water con-servation in her government. She was also one of the few rulers who paid ade-

also one of the few rulers who paid adequate systemic attention to making farming an economically viable proposition. Her administration not only encouraged farming in multiple ways, but also tried to promote farm-based enterprises. She distributed government land to poor farmers, though with conditions—they had to plant nine fruit-bearing trees along the edges of every unit of their fields for personal use, and I more whose produce would be deposited into the state granaries. As a skilled administrator, she institutionalised this through what became known as the 'Nine-Eleven Act'.

The 18th-century monarch knew that prosperity of the people was rooted in a robust economy. During her reign, the size of her kingdom's economy is estimated to have grown by more than 40 percent, strengthening the region's financial health. Conscious of the fact that the distinct estimates the region's financial health. nancial neatifi. Conscious of the fact that traditional artisans across the inte-rior parts of her state were a backbone of the economy. Ahilyaba isstablished a separate artisan colony in Ambad tehsil (now in Sambhajinagar district of Ma-harashtra), providing artisans with nec-essary infrastructure and access to low-interest loans. arasint'a), providing artisans with nec-ssary infrastructure and access to low-iterest loans.

A prudent ruler who understood basic

A prucent runer wno uncerstood oasic economic principles, her investments in infrastructure hugely contributed to galvanising the economy of her state, which had suffered from wars. What was more remarkable was her understanding that even in economic matters, the modern approach has to walk hand-in-hand with age-old traditions, and that neither of the two could be incored.

even in economic matters, the modern approach has to walk hand-in-hand with age-old traditions, and that neither of the two could be ignored.

Ahliyabai was also known for approaches to several social issues that were far ahead of her time. After her husband's death, after some debate, she decided not to observe the practice of Sati in response to an appeal from her in-laws. She was keen to ensure that widows were not discriminated against while she was regent.

She painstakingly ensured marginalised tribal communities like the Bheels were neither persecuted nor did they persecute others. Her efforts for the effective inclusion of Bheels into the socio-cultural mainstream eventually ensured their peaceful co existence and non-tribal communities in parts of Malwa.

Ahliyabai Holkar's vision was to mainstream eventually ensured their peaceful co existence and non-tribal communities in parts of Malwa.

Ahliyabai Holkar's vision was to mainstream eventually ensured their peaceful co existence and non-tribal communities in parts of Malwa.

Ahliyabai Holkar's vision was so enduring, that her thoughts and actions remain relevant even today. In one of her writings, she eloquently emphasised the importance of purity in every walk of life. She wrote, "Bathing purifies the body, meditation purifies the mila, and charity purifies wealth."

No wonder that Ahliyabai earned the admiration not just from her Indian peers, but also renowned her as a 'philosopher-queen'. John Malcolm, a Scottish scholar and diplomat, extolled her as 'one of the purest and most exemplary rulers'. "Historians must note that when the modern concepts of good governance were not even around, Ahliyabai took them to heart.

(Vieus are personal)

BORNE IDENTITY: LOOMING AI THREAT

ARIO Amodei, CEO of Anthropic, the company that runs the Claude artificial intelligence model, has stepped out of line from his peers and confirmed a crisis hiding in plain sight. While the industry and governments minimise the threat of AI, claiming that it will only take over menial, clerical, repetitive functions, Amodel recently said that it is very likely to wipe out white collar jobs and deepen unemployment, especially among young people.

For example, AIs seem to be better persuaders than people. In September 2024, chathots were reported to be good at debunking fake news and persuading company and the proposition of the propo

Als are three to six times more persuasive than humans. In May researchers at Lausanne pitted 900 people against human and AI debaters to discuss points like the utility of school uniforms and the value of AI. They found that when AIs know something about their opponents, they are formidable persuaders. Now that clever people know this, AIs could the deployed in prestige roles as lobbyists, political campaign managers and marketers of all things from missiles to toothpaste. Dare we say, religion, too?

This is not how it was supposed to play out. From the Industrial Revolution until the late 20th century, from the age of steam to that of silicon, machines have been presented as labour-saving have been presented as labour-saving

age or steam to that of suicon, machines have been presented as labour-saving devices whose most valuable product is leisure. But since mechanisation was a purely Western project, European ideas like utility applied. In the narrative about the golden age of machines, even the time freed up by reducing drudgery was supposed to have utility it would give everyone the opportunity to create art and culture. Unemployment and underemployment would be wellsprings underempioy of creativity

But if work remains a marker of iden-tity consider how profession is embed-



ded in South Asian caste names, and in English surnames like Carpenter and Carter leisure spells erasure, not crea-tion. Ironically, chronic unemployment is a feature of booming economies like

is a reature or ocoming economies like India and China. Urban families were typically bank-rolled by a sole breadwinner. In the 1980s, yuppie aspiration created families called DINK's (double income no kids) and DINK'ys (Y for 'yet'). Now, double income



All industrial revolutions present machines as labour-saving devices whose most valuable product is leisure. But today. when a job is an identity, leis spells social erasure. That makes a recent warning that Als can wipe out white-collar jobs troublesome in more ways than one

with kids is becoming the urban norm. Seen through the lens of women's participation in the workfore, it is a positive development. But it also points to the soaring cost of living while one income could finance a family earlier, it now takes two. And someone who does not work has no identity.

This erasure will be deepened if Al culls jobs on a scale not seen for decades and across the rank and file this time. Al was supposed to take over basic and repetitive tasks, leaving workers free to supervise machines or turn to higher things. Exactly the opposite is happening. Als can with kids is becoming the urban norm

write words and code, create images from words, analyse gigantic datasets and work in mathematics, science and music. Because they learn by mimicry, they can even write poetry and literary fiction in the manner of acclaimed writers.

But for want of manual dexterity, Als are no good for everyday work. They can make fast food because it's standardised, but they can't make a home-cooked meal. Disappointingly, while the household robot has been a stock character in science fiction, intelligent machines can't perform any household function reliably, except for keeping floors somewhat clean.

bot has been a stock character in science fiction, intelligent machines can't perform any household function reliably, except for keeping floors somewhat clean.

Jobs deemed to be low-quality may prove to be durable while a lot of white-collar roles go to machines. Even industries like the press, which depend heavily on human instincts and originality, are being affected. The buzz is about 'liquid content' text, graphics and other components formatted to be widely shared, which can be decanted into various formats and channels. Until fairly recently in India, there were curbs on cross-media holdings for fear that media houses would do precisely this, narrowing the variety of news sources and opinion. Besides, it was assumed that the hose for news on which the whole business runs is a uniquely human attribute. But some Nordic media houses are training their own Als by a stimple process: their desk staff give a thumbs up or thumbs down to incomig news to teach the Al to be a news editor.

The most persuasive evidence that Als could take white-collar jobs comes from changing attitudes to universal basic income. The idea dates back to Thomas Paine in the late 18th century and enjoys some popularity in times of economic uncertainty. At other times, it has been dismissed as a handout. But over the last decade, as AI has surged, it is again being talked up. Elites drive policy everywhere, including in technology, and the change could suggest that they know that their own AIs could make them redundant.

(Views we personal)

MAILBAG

WRITE TO: letters@newindianexpress.com

Tax fallout

Ref: Western disunion: The impact of Trump's remittance tax (May 30). Any fall in remittance inflow could shrink India's foreign exchange reserves, weaken the rupee, and raise inflation. India must engage with the US (Indometrially Troughtful) with the US diplomatically. Thoughtful, collaborative policymaking is vital in our inter-connected economic landscape.
NR Jagannath, Bengaluru

Own goal

Ref: Trump's policies can harm US as much as countries like India (May 30). By retreating countries like india (May 30). By retreating from climate agreements and international alliances, Trump weakens global cooperation on issues requiring collective action, not only jeopardising global security but also America's leadership position. Narayanan Kizhumundayur, Thrissur

Tharoor's statesmanship
Ret Tharoor calls his rirlic: realots'
(May 30). Shashi Tharoor has displayed
statesmanship by acknowledging the Modi
government's achievements. He has risen
above party lines. The opposition's job is to
citicise the government, but it should also
acknowledge its achievements. Tharoor sets
a great example of constructive politics.
V Venkitasubramanian, Colmbatore

Defence delays

Ref: Air Chief's plains peak on delays in defence acquisition timelines (May 30). One knows that delays in completing public sector projects have been india's bane for decades. But this should never be the case for defence projects. They must be completed on time, at the nation's security s at stake. S Ramakrishnasayee, Chennai

Underwhelming qualifier Ref: Royal Salute to Hazelwood, Suyash (May 30). The first qualifier IPL match between top points holders Punjab and Bengaluru turned out to be a lacklustre contest. Punjab's wickets fell like ninepins and they rounds a waxess retrieve ninepins and they were bowled out for a paltry 101 runs, with no fightback coming either from their middle order or tailenders. SVaithianathan, Madurai

Tongue twister

Ref: Kamal must appolgise by May 31: K'taka film panel (May 30). Asking Kamal Haasan to apologise for his statement is unwarranted. The actor would have said the same thing if Kannada were his mother tongue. The thre to ban his movies if he does not retract his statement and apologise is an overreaction. David Milton, Maruthancode

THE NEW INDIAN EXPRESS

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The Tribune

Delivery delays

Stricter execution of defence contracts must

IR CHIEF MARSHAL AP Singh's blunt assessment — "Not a single project that I can think of has been completed on time" -strikes at the core of India's defence pre-paredness. Despite headline-making progress in indigenous production, such as the Tejas fighter or Akash missile systems, chronic delays continue to hobble operational readiness and derail mod-ernisation. These delays, often accepted at the con-tract-signing stage itself, highlight systemic inertia tract-signing stage itseir, nigningnt systemic inertia and a culture of over-promising. With adversaries modernising swiftly and conflicts becoming technolo-go-intensive, the price of sluggishness is steep. It's not just a matter of budgets or bureaucratic red tape, it's about national security.

The government has indeed made strides: domes-

tic production has risen to 65 per cent of the total defence needs, defence exports have jumped to 724,000 croze and the public-private balance is gradu-ally shifting. Schemes like IDEX are fostering innovation and the private sector now contributes 21 per cent to the total output. However, when delivery lags behind intent, strategic autonomy remains elusive. There are structural gaps that demand attention nerve are surucural gaps that demand attention— from raw material dependencies and insufficient R&D funding to poor coordination between services. Of the Rs 6.81 lakh crore defence budget, only Rs 1.81 lakh crore is earmarked for modernisation, with R&D receiving a paltry 3.94 per cent. Until this imbalance is corrected breakt broads will sense and dis-

corrected, breakthroughs will remain sporadic.

Declaring three defence public sector undertakings
(DPSUs) as 'miniratnas' is commendable, but performance should be measured not just by profits, but also
timely delivery of critical systems. The Air Chiefs
warning must be treated as a call to overhaul the defence procurement ecosystem. Thansparency in time-lines, stricter contract enforcement and empowered project management must replace vague ambition. India's vision of 'atmanirbharta' in defence cannot afford to be an exercise in delay. National security ves speed, not excuses

Balm for Poonch

Shah visit reassuring, but more must be done

Poonch and his message of solidarity with those affected in the Pakistani shelling and drone attacks during Operation Sindoor provides a much-needed balm. The district recorded the highest number of civilian fatalities in Jam-mu and Kashmir between May 7 and 10. The border area residents in the UT have yet again paid the price. The residents in the UT have yet again paid the price. The large-scale death and destruction throws up pertinent questions that need to be urgently addressed. Why do civilians living close to the Line of Control remain sovul-nerable? Could more have been done to lower the risk and prevent the losses? Was the response to evacuate those in the line of fire quick enough? Going forward, what are the new standard operating procedures being put in place to ensure that the residents are protected if there is a cross-border flare-up again?

It is time to firm up a robust compensation and rebuilding process that exhibits the nation's resolve to stand by those who are the most vulnerable in border areas across the country. The Home Minister's announcement to add to the 9,500-plus bunkers in the border areas is reassuring. The distribution of aid and appointment let-ters for government jobs to the kin of those affected is a sign that the J&K government, the Centre and the nation's sentiments are connected with the border resi dents. Developing a response framework that takes care of the unique requirements of border residents is vital.

They cannot be made to feel invisible and forgotten.

It is also essential to not take lightly the civil defence

drills that are being initiated at regular intervals, or the assigning of duties and imparting of training to the young volunteers. A modicum of discipline and preparedness has its benefits in times of crises.

ON THIS DAY...100 YEARS AGO

The Tribune.

'Turmoil in India'

Turmoil in India'

If Lord Birkenbed has so far failed to give any indication of that firm grasp of facts which alone could prevent the political situation in India from getting from bad to worse, there are happly other Englishmen who have had no difficulty in forming a fairly correct estimate of the present position in this country or in suggesting the only measures by which this position can be effectively remedied. One of these is Harry F Ward, whose article in the British Press on Turmoil in India' contains the most believe to the present of the prese cle in the British Press on Turmoli in India' contains the most brilliant, penetrating and masterly analysis of the present conditions in India from the pen of a foreigner that we have recently seen. With one exception, there is no important statement or observation in this article with which any well-informed ritic in India will seriously quarrel. The exception is as regards the view cautiously put forward by the writer that the exigencies of his position and the position of his country may compel Mahatma Gandhi to throw the principle of non-violence overboard. "At present," says the writer, "he suspends non-cooperation for the sake of the principle of non-violence. He makes the personal surender of political leadership, and yields his programme for his principle. Has he thereby manoeuvred himself into a position where sooner or later an emergency may arise in which love of where sooner or later an emergency may arise in which love of the country may overpower his principle?" We can think of no emergency in which this can or will happen.

BJP's baffling silence in Ludhiana W

Why does no one in the BJP, not even Modi-Shah, care about a bypoll in a corner of Punjab?



WENTY days before the Ludhiana West Assembly con-stituency goes to the polls on June 19, the Punjab BJP is asking two ques-tions. The first is Ludhiana West tions. The first is, Ludhiana West where? And the second, Ludhi ana West who?

The crisis in the party in the state is totally at odds with a jug gernaut that has been caterwaul gernaut that has been caterwauling across the country over the last several months and mopping up all the governments it sets its eyes on. Haryana. Maharashtra. Delhi. Even in Manipur, the BJP folks are claiming the support of a majority of the MLAs (44) in an attempt at upsetting the local applecart.

The BJP blitzkrieg didn't need Operation Sndoor to underline

Operation Sindoor to underline the 24x7 presence of the world's largest political party — with a 90-crore membership, the BJP

90-croce membership, the BJP claims to be even larger than the Communist Party of China. Certainly, Operation Sindoor has magnified PM Narendra Modi's importance not just in the party, but also across the country and in the international area. He took the decision, first, to target terror infrastructure inside Pakistan. Then, when the Pakistanis struck back by raining drones and missiles on Indian military missiles on Indian military infrastructure from Baramulla to Bhuj, it was the PM who decided to escalate the air war by bombing Pakistan's 11 bases and runways.

bases and runways.

The BrahMos missile certainly
did its job well, but the credit for
the decision to play eyeball-toeyeball with Rawalpindi until
Rawalpindi blinked, must certainly be given to Modi.



DISINTEREST: The BJP state president Sunil J. him. Capt Amarinder Singh is

Close by his side, the powerful Home Minister and Modi's clos-est confidante, Amit Shah, has demonstrated how there's no sunlight between the PM and he. It's as if they complete each other's sentences. Between them, there's full control over the party and the country.

The thing about Amit Shah as has been made clear again and again, is that he doesn't and again, is that he doesn't leave anything to chance. It is said he fights every election, from panchayat to Lok Sabha, as if he's astride the Maha-harata chessboard, thinking through every move three moves before. Within days of the end of the India-Pakistan conflict, as the

India-Pakistan conflict, as the PM travelled across the country talking to people about the con-flict just ended, Shah was back in the Jammu region to as

in the Jammu region to assess the damage on the ground. Perhaps, none of this is new. Modi-Shah have had the BJP and the country in their grip since the party-came to power in 2014 — divkling the Opposition, influencing both society and media, invoking the gods and conflating it with nationalism, although, as we know, one of the

Perhaps, the real reason is that Punjabis, so used to resisting the idea of the Delhi Durbar, find it easy to escape the charms of the saffron party.

most endearing things about Hindu gods is that they have feet of clay. All the party presidents, both past and present,

Current incumbent JP Nad-Current incumbent JP Nad-da, the mild-mannered gentle-man from Himachal Pradesh, must be wondering till when and how long his extended presidency is going to last. The RSS is said to be fully on board the Modi train, its mes-sage of Hindutva being seeded across the length and breadth

of the country; what more could it want in its centenary year. So, back to the first question. Why does no one in the BJP, not even Modi-Shah, care about a bypoll in a corner of Punjab, in Ludhiana West, considering Punjab is a sensitive, border state; has just been through a near-conflict with Pakistan, even if it was mostly rakistan, even if it was mostly an air war; and none other than the PM came to Adampur with-in a day of the end of the con-flict because the S400 had warded off Pakistan's Hatf missiles?

Consider the total disinterest. The BJP state president, Sunil Jakhar, resigned several months ago and there is no move to replace him. The larg-er-than-life Amarinder Singh, who left the Congress to teach it a lesson and joined the BJP, is far removed from the heat and far removed from the heat and dust of politics and is planning a summer of travel. Vijay Rupani, the man from Gujarat who is in charge of Punjab, hides when he rolls his eyes in boredom, but everyone can see.

everyone can see. Ludhiana West is a predomi-nantly Hindu constituency, as much as 85 per cent, perfect ter-

determination to do much better than the only two MLAs it has today. In the 2024 Lok Sabha polls, the BJP didn't do too badly, winning 18 per cent of the vote. The PM, who spent a large time in Punjab during the Emergency, is said to have a fond corner for Punjab. But a certain je ne sais quoi is clearly

missing.

Local Ludhiana boy Vikram
Sandhu is said to be a likely
candidate from Ludhiana West
— be had contested the election the last time too — except,
the local 'sanghathari or RSS
man, Manthri Sreenivasulu,
doesn't approve. Sreenivasulu,
instead. like s Jeevan Gunta.

doesn't approve. Sreenivasulu, instead, likes Jeevan Gupta, another local who pays full obeisance to the 'sanghathan', but as a wag offered, 'won't get even lo votes.''

Sreenivasulu, meanwhile, is most unpopular in the Punjab BJP. A god-fearing, 'Teluguspeaking gent, he earnestly clocks the miles, going from 'pind' to 'pind', village to village, but to little avail. It's not really his fault. The Punjabi is mystified by him, and he is mystified by him, and he is mystified by the Punjabi. Newton's Third Law prevails here; every action has an equal and

every action has an equal and opposite reaction. For sure, from Kashmir to Karyakumari, via Punjab and Andhra Pradesh, India is one, but the BJP must know that some local flavour is always welcome in the Maggi. Back, then, to the original question. Why is the BJP not interested in fighting Ludhians West? Perhaps. Punjab with only 13 Lok Sabha seats doesn't matter that much; and without matter that much; and without possible. matter that much: and without

matter that much; and without the Akali Dal, it's difficult for the BJP to enter the state's Sikth-dominated villages. Perhaps, none of the above is true and the real reason is that Punjabis, so used to resisting the idea of the Delhi Durbar for centuries, find it easy to escape the charms of the saffron party. So, why doesn't the BJP want to change that state of being?

THOUGHT FOR THE DAY

Every election is determined by the people who show up. - Larry J Sabato

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Donald Trump and Mickey Mouse

RAJAN KASHYAP

DDRESSING economists and political leaders last DDRESSING economists and political leaders last week, Prof Jeffrey Sachs, a renowned international trade policy. Essentially, President Donald Thump claims that since most countries export more goods for value to the US than they import from his country, these nations are exploiting

than they import from his country, these nations are exploiting America. His policy consequently seeks to levy hefty tariffs (duties) on imports and demands that other countries reduce their tariffs on goods imported by them from the US. This policy has thrown global trade into disarray.

On many economic parameters, Sachs deems the move ill advised. He goes to the extent of questioning Trump's understanding of economic fundamentals. Scoffing at the President, the professor said even Mickey Mouse, a legendary carbon character was smarter than Trump. Sachs stated that the toon character, was smarter than Trump. Sachs stated that the new policies would hurt both partner nations engaged in trade. He explained, on the basis of economic logic, how the new US policy was self-defeating. Understandably, the profes

new US policy was self-defeating. Understandably, the professor's comments on Trump's "basic intelligence" have created a storm in the international media.

Many economists endorse Sachs' views that the current disruption of world trade stems from a thoughtless and impetuous initiative. On its part, the public has lapped up the Trump-Mickey comparison. Trump is notorious for the use of intemperate language in his speeches. Many people around the world, including those in the US, find the President's aggressive tone and vulgar comments on other leaders and countries distasteful.

In contrast, Mickey is portrayed as a pleasant and likeable character. He is happy-go-lucky, kind and helpful to others, always maintaining a spint of cheerfulness. Mickey does not have an aggressive personality, he is a kind individual whose harmless capers and adventures have armused and delighted children as

capers and adventures have amused and delighted children as well as adults for almost a century. Even in the face of difficul

well as adults for almost a century. Even in the face of difficul-ties, Mickey is never known to utter an offensive or inappropri-ate word. At the same time, he is imbued with sound intelligence, and his endearing skills help him overcome all odds. Tongue in cheek, Sachs applogiese for the comparison between Trump and Mickey Mouse, remarking that the latter is endowed with more brains than the former. He refers to abusive words with which Trump demeaned other nations with whom the US is negotiating on trade as the presidential language." President Trump's avowed policies have undoubtedly stirred theworld. The US is engaged with numenous countries to deter-mine the duties on exports and imports. Currently, there is a

mine the duties on exports and imports. Currently, there is a worldwide debate on the key features of the negotiations. The impact of the new world trade order will be known after several months. In the meantime, Prof Sachs has succeeded in bringing ment into the dryworld of economic

LETTERS TO THE EDITOR

Protect the republic

Protect the republic
Apropos of 'A professor and a draconian law';
the arrest of Professor Mahmudabad under
Section 152 of the BNS reflects a disturbing
trend to criminalise dissent His Racebook post
was a thoughtful critique, urging secularism
and lawful governance. However, the court's
decision to hand over the interpretation of
plain English to a STI raises concerns about
studied lexitational represensibility. Measure plain English to a SIT raises concerns about judical institutional responsibility. Moreover, the sweeping scope of Section 152 leaves citi-zens and minorities at the mercy of arbitrary action. Instead of punishing those who uphold democratic ideals through peaceful expres-sion, the law must protect the republic.

Musk opts to focus on business

waves initially. However, Musik reportedly dis-agreed with Trump's reciprocal tariffs that led to a tariff bloodbath globally, particularly those levied on China He also disapproved of levied on China. He also disapproved of Thump's package of sweeping tax and spend-ing cuts. Musk attempted to improve govern-ment efficiency but faced challenges. His efforts included layoffs, buyout offers and cuts in grants, but saw limited success. Musk has decided to exit the US administration and focus on his companies, Tesla and Staffink. However, the two lenders remain close personally. BIR DEVINDER SINGH BEDI, SANGRUR

dets' grit & determination

Apropos of 'NDA's first women cadets ready for tomorrow'; the credit for achieving this milestone goes to the 2021 landmark judgment of the Supreme Court, which, despite opposition, opened the gates of the prestigious military acadopened the gates of the prestigious military academy to women aspirants. The 17 women cadets who made it through the gruelling selection process out of more than one lakh candidates definitely had toprove their metle with academic brilliance and strong will power. Though the physical standards had been adjusted to accommodate biological differences, the core values of integrity, discipline, courage, commitment and service before self remained turchanced. Their 'service before self' remained unchanged. Their journey has not only been about survival but also

rebuilding themselves to emerge as leaders.

VAIBHAV GOYAL, CHANDIGARH

Trump arm-twisting varsities

Refer to 'Cutting financial aid to Harvard an act of self-sabotage'; for many decades, the US Government has been granting funds to Harvard and other American universities. This investment has yielded great results in the form of knowledge and innovation, that the form of knowledge and innovation, that helped the US economy as well as technological advancement. The Thump government's new conditions for granting funds, including restrictions on hiring faculty and policing political views of the students and teachers, are bound to severely shrink the knowledge space. Threats of cancelling visus of students and scholars is a way of arm-twisting the universities that fail to toe the Trump line.

SK PANESAR, BY MAIL

Theatre commands not needed

Refer to 'Not a single defence project com-pleted on time: IAF Chief flags systemic delays'; apart from delays, there is another issue that deserves attention. A brainchild of the first Chief of Defence Staff late Gen Bipin Rawat, theatre commands, which were to integrate the three branches of the arr to integrate the three branches of the armed forces, have been revived. Though the IAF Chief has not spoken about it, there are apprehensions that theatre commands will further divide the already depleted fleet of the IAF. Powers assigned to the theatre commanders will undermine the relevance of the service chiefs, which would be inappropriate. We already have many operational commands of all three services spread across the country. There is no need for theatre commands.

WIG COR CL SEHGAL (RETD), MANDHAR

Veteran of Punjab politics

Veteran of Punjab politics
The passing away of veteran Akali leader SS
Dhindsa, 89, has left a void in the state's political arena. In his political innings of half a century, Dhindsa held such senior positions as state cabinet minister, union minister, Rajva Sabha Member, chairman of various public sector undertakings, state planning board. They testify his credentials as a veteran politician. Dhindsa represented the generation of Punjab politicians who were an important part of the polity during its momentous stages of development.

tous stages of development.

JAGVINDER SINGH BRAR, PATIALA

These should be cogently written and can be sent by e-mail to: Letters@tribunemail.com