Daily Current Affairs

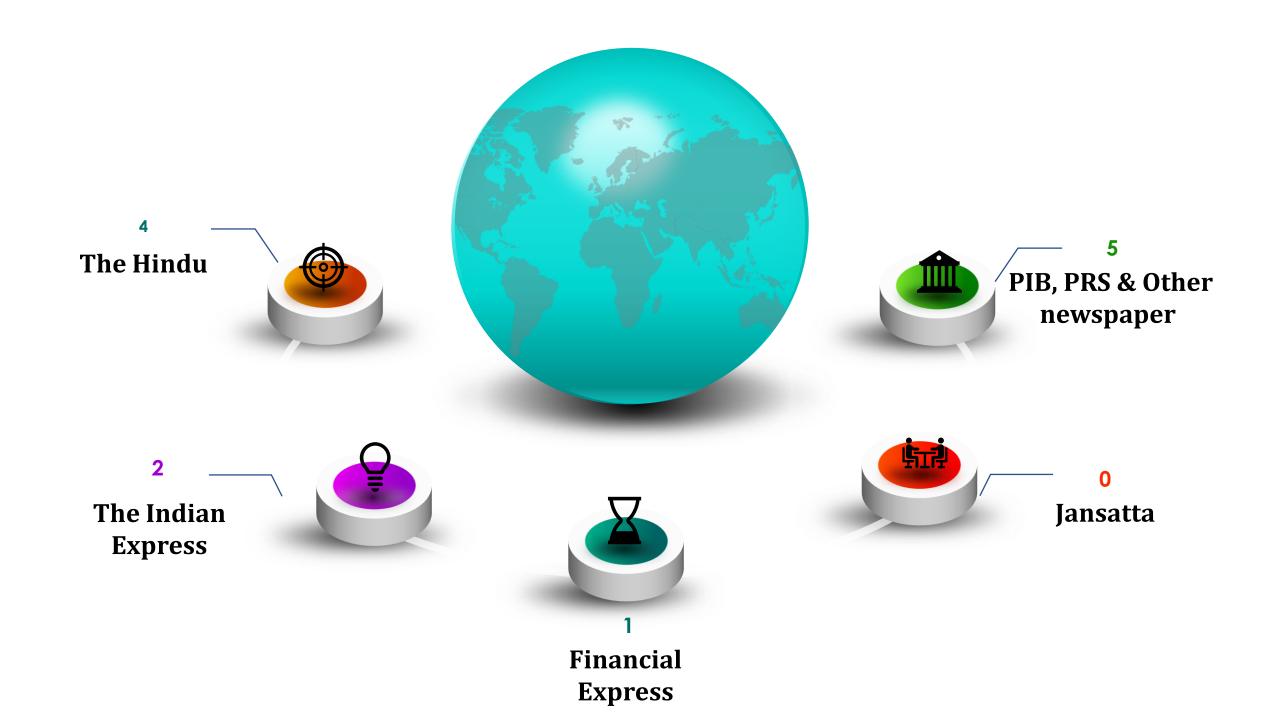












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10 MCQ QUIZ



- Which state ranked first in fiscal health with an index score of 99.0?
- कौन सा राज्य 99.0 के सूचकांक स्कोर के साथ वित्तीय स्वास्थ्य में पहले स्थान पर रहा?
- A. Maharashtra / महाराष्ट्र
 - B. Odisha / ओडिशा
 - C. Chhattisgarh / छत्तीसगढ़
 - D. Goa / गोवा

- Which states were the worst-performing in fiscal health due to high fiscal deficits?
- कौन से राज्य उच्च राजकोषीय घाटे के कारण वित्तीय स्वास्थ्य में सबसे खराब प्रदर्शन करने वाले थे?
- A. Maharashtra, Telangana, Karnataka / महाराष्ट्र, तेलंगाना, कर्नाटक B. Punjab, Andhra Pradesh, West Bengal, Kerala / पंजाब, आंध्र प्रदेश, पश्चिम बंगाल, केरल
 - C. Gujarat, Rajasthan, Haryana / गुजरात, राजस्थान, हरियाणा
 - D. Tamil Nadu, Uttar Pradesh, Madhya Pradesh / तमिलनाडु, उत्तर प्रदेश, मध्य प्रदेश

- What is the primary reason for poor fiscal health in Kerala and Punjab?
- केरल और पंजाब में खराब वितीय स्वास्थ्य का मुख्य कारण क्या है?
- A. High industrial growth / उच्च औद्योगिक विकास B. Low expenditure quality and weak debt sustainability / कम व्यय

ग्णवता और कमजोर ऋण स्थिरता

- C. High foreign direct investment (FDI) / उच्च विदेशी प्रत्यक्ष निवेश (FDI)
- D. Surplus budget management / अधिशेष बजट प्रबंधन

- What did the study on 10,475 adolescents in India and the U.S. reveal?
- भारत और अमेरिका में 10,475 किशोरों पर किए गए अध्ययन से क्या निष्कर्ष निकला?
- A. Early smartphone use improves mental well-being / शुरुआती स्मार्टफोन उपयोग मानसिक स्वास्थ्य में सुधार करता है

 B. Mental well-being declines with earlier smartphone use / पहले स्मार्टफोन उपयोग से मानसिक स्वास्थ्य में गिरावट आती है

 C. Smartphone use has no impact on mental health / स्मार्टफोन उपयोग का मानसिक स्वास्थ्य पर कोई प्रभाव नहीं पड़ता

 D. Mental well-being improves with social media engagement / सोशल मीडिया जुड़ाव से मानसिक स्वास्थ्य में सुधार होता है

- Which significant constitutional ruling was reaffirmed in Puttaswamy vs. Union of India (2017)?
- पुट्टास्वामी बनाम भारत संघ (2017) में कौन सा महत्वपूर्ण संवैधानिक निर्णय पुनः पुष्टि किया गया?
- A. Right to Internet / इंटरनेट का अधिकार
 - B. Fundamental Right to Privacy / गोपनीयता का मौलिक अधिकार
 - C. Right to Equal Pay / समान वेतन का अधिकार
 - D. Right to Reservation / आरक्षण का अधिकार

- Which Indian company is constructing the world's largest data center in Jamnagar?
- कौन सी भारतीय कंपनी जामनगर में दुनिया का सबसे बड़ा डेटा सेंटर बना रही है?
- A. Infosys / इंफोसिस
 - B. Wipro / विप्रो
 - C. Reliance Industries Ltd (RIL) / रिलायंस इंडस्ट्रीज लिमिटेड (RIL)
 - D. Tata Consultancy Services (TCS) / टाटा कंसल्टेंसी सर्विसेज (TCS)

- What is the estimated capacity of RIL's upcoming data center in Jamnagar?
- जामनगर में RIL के आगामी डेटा सेंटर की अनुमानित क्षमता क्या है?
- A. 500 megawatts
 - B. 1 gigawatt
 - C. 2 gigawatts
 - D. 3 gigawatts

- Why is January 21 celebrated as Statehood Day in Manipur, Tripura, and Meghalaya?
- 21 जनवरी को मणिपुर, त्रिपुरा और मेघालय में राज्यत्व दिवस क्यों मनाया जाता है?
- A. It marks their merger with India in 1950 / यह 1950 में भारत में उनके विलय को दर्शाता है
 - B. They were granted full statehood on this day in 1972 / उन्हें 1972 में इस दिन पूर्ण राज्य का दर्जा दिया गया था
 - C. They became union territories on this day / इस दिन वे केंद्र शासित प्रदेश बने थे
 - D. They were declared special economic zones / उन्हें विशेष आर्थिक क्षेत्र घोषित किया गया था

- What is the target set by India for Geographical Indication (GI) Tags by 2030?
- 2030 तक भारत ने कितने भौगोलिक संकेत (GI) टैग प्राप्त करने का लक्ष्य रखा है?
- A. 5,000
 - B. 7,500
 - C. 10,000
 - D. 15,000

- What is the "Digital Tree Aadhaar" initiative launched in Jammu & Kashmir?
- जम्मू और कश्मीर में शुरू की गई "डिजिटल ट्री आधार" पहल क्या है?
- A. A project to track and conserve Chinar trees / चिनार पेड़ों को ट्रैक करने और संरक्षित करने की परियोजना
 - B. A mobile application for farmers / किसानों के लिए एक मोबाइल एप्लिकेशन
 - C. A digital mapping system for all trees / सभी पेड़ों के लिए एक डिजिटल मैपिंग प्रणाली
 - D. A blockchain-based land registry for forests / वनों के लिए ब्लॉकचेन आधारित भूमि पंजीकरण



COMPLETE

By Bhunesh Sir

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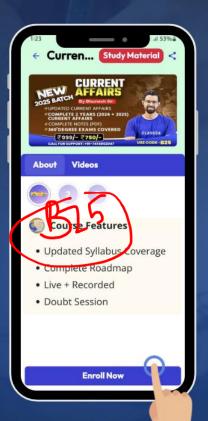
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"निंदा"

से घबराकर अपने

"लक्ष्य"

को ना छोड़े क्योंकि..

"लक्ष्य"

मिलते ही निंदा करने वालों की

"राय"

बदल जाती है।









INSIDE



Murmu praises growing women voter turnout

NEW DELHI

President Droupadi Murmu on Saturday praised the growing participation of women in elections as a sign of India's societal development. She called India's democracy the world's oldest, largest, and mast inclusive, noting it is admired globally for its electional system. 3º PAGE 4

BJP will not stop welfare schemes in Delhi: Shah

NEW DELHI In rallies ahead of Delhi Assembly elections, Union Minister Amit Shah on Saturday criticised AAP for misleading voters about welfare schemes, assuring that under BJP, no schemes will be stopped. Mr. Shah also criticised AAP, accusing them of lying about not using nent luxury, to PAGE 2

Palestine seeks India's help in rebuilding Gaza

NEW DELHI Palestine's Acting Ambassador to India, Abed Elrazeg Abu Jazer, on Saturday urged India to play a vital role in Gaza January 19, continues to hold UN agencies are expected to rubble and rebuilding homes in

Press Trust of India The United States Supreme Court has turned down a review petition by terror accused Tahawwur Rana,

accused Tanawwur Rana, dismissing his last legal challenge against his extra-dition to India in connec-tion with the 2008 Mumbai attacks.

"Petition DENIED," the
Supreme Court said in its
order delivered on January
21, a day after Donald

Trump was sworn in as the U.S. President.

battles in several federal courts, including the U.S. Court of Appeals for the

CM (

Legal battles lost

India, Indonesia stress peace in ASEAN region

President Subianto invites Indian business groups to invest in key infrastructure, and promises to expedite bilateral projects; he says, talks were 'very intensive', 'very frank'; Indonesian govt, to send high-level defence delegation to India; prior to the statements, the two leaders led their delegations in an in-depth discussion at the Hyderabad House

The Hindu Bureau

ndia and Indonesia are committed to upholding peace, se-curity and freedom of navi-gation in the Southeast Asian region, Prime Minis-ter Narendra Modi said on

ner Narendra Modi said on saturday.

He was speaking after He was speaking after He was speaking after by him and visiting Indo-nesian President Prabowo Subianto, who is the chief blic Day celebrations, at Hyderabad House here. Hyderabad House here. be talks were "very intensive and very frank". He de-dared that bilateral pro-duced that bilateral pro-to "cutting bureaucracy".

by "cutting bureaucracy". Indonesia would send a

high-level defence delega tion to India, he added.

tant partner in the ASEAN and Indo-Pacific regions. Both countries are com-mitted towards maintainmitted towards maintaining peace, security, prosperity and rules-based.
We agree that freedom of
navigation must be ensured in accordance with
international laws." Mr.
ianto recollected that the
then Indonesian President,
Sukarno, was the chief
guest at the first Republic
Day celebrations in 1950.

Thanks India's support He noted that his presence at the Republic Day celebrations on Sunday was a continuation of the close



Close partners: Prime Minister Narendra Modi greets Pri Prabowo Subianto in New Delhi on Saturday. SHIV KUNAR

two sides.

He recollected the sup-port that India had extended to Indonesia in resisting the Dutch attempts at reco-lonising the archipelago af-ter the end of the Second World War. "History tells

that he was tried and acquitted in federal court in the Northern District of Illament of the Northern District of Illament of the Northern District of Illament of the 2008 terrorist attacks in Mumbai.

"The government does not concede that all of the concede that all of the seeks extradition was covered by the government's prosecution in this case, overed by the government's prosecution in this case, grey charges are based in part on conduct that was not charged in the United States petitioner's use of placation to formally open

plication to formally open a branch office of the Im-

bilateral ties between the us that India was one of the first strong supporters of our independence strug-gle. India sent financial aid, medical aid in our struggle for independence. Even now the Embassy of the Republic of Indonesia is on a land donated by the we were recognised by ma-ny other countries. Indonesia will never forget that support," he said. He invited Indian

groups to participate in the infrastructure sector of Indonesia. "We have ratified agreement recordy and agreement recordy and now we will send a high-level defence delegation as soon as possible at your soon as possible at your following the sector of the Indian business groups to engage Indonesia. United India's current championing of South-South cooperation with the India-Indonesia consonaus during the and appreciated New Del-

and appreciated New Del-hi's recent support for In-keen to cooperate at the

the BRICS grouping. Indo-nesia joined BRICS formal-ly on January 7 this year. Prior to the statements,

by on January 7 thus year.
It was the two leaders led their respective delegations in an in-depth discussion at where various MoUs were sealed covering sectors such as health sector, culture of the sealed covering sectors such as health sector, culture the sealed covering sectors such as health sector, culture the sealed covering sectors such as health sector, culture the sealed sealed sector such as health sector, culture the sealed seale

lopmental and social schemes in the Indonesian

policy level but also wants to attract Indian hospital (chains) to open hospitals in Indonesia. They would like to have their doctors trained and get exposed to our health systems, to unour health systems, to un-dergo internships, to train students and technicians," said Mr. Mazumdar. "The President offered the en-tire infrastructure sector of Indonesia open to Indian business."

business."
Mr. Modi, in his re-marks, also laid out the scope of cooperation bet-ween India and Indonesia that included defence ma-mineration. "maritime security, cyber security, counter-terrorism and de-radicalisation," as areas of mutual cooperation.

Ceremonial retreat

26/11 terror accused Tahawwur

Rana to be extradited to India

North Circuit in San Fran-



'Simultaneous polls will prevent policy paralysis'

The Hindu Bureau NEW DELHI

The proposal to synchro-nise election schedules in nise election schedules in the country is a reform measure that promises to good governance, President Droupadi Murmu said on Saturday, while addressing the nation on the eve of the 76th Republic Dorth Come Nation One Election' plan can promote consistency in covernance.

consistency in governance, prevent policy paralysis, mitigate resource diver-sion, and reduce the finan-cial burden, apart from of-forier more other fering many other benefits," Ms. Murmu said

She stressed the Union government's efforts to "eliminate remnants of a colonial mindset that have lingered" and, in that con-text, mentioned the re-placement of the Britishera criminal laws with three new modern laws.

New criminal laws
The President said that the
dian Penal Code, the Code
of Criminal Procedure and
the Indian Eval Evidence Act
sanhita, the Bharatiya Nagarik Suraksha Sanhita and
parik Suraksha Sanhita and
birinyam, which are based
on Indian traditions of jurisprudence, is the most
...the new criminal
...the new criminal

"...the new criminal laws place the delivery of justice instead of punish-ment at the centre of the criminal justice system. Moreover, the new laws grant top priority to countering crimes against wo-men and children. Re-forms of such magnitude displighted in her speech.



Former CJI among seven Padma Vibhushan awardees

Former CJI Jagdish Singh Khehar, known for his dissenting opinion on triple talaq, was selected for Padma Vibhushan. writer M.T. Vasudevan Nair and violinist L. Subramaniam were among the seven winners.

FULL REPORT

require an audacity of vi-

require an audacity of vision," she noted.

Ms. Murmu underMs. Murmu und

ginalised ginalised communities, particularly those belonging to Scheduled Castes (SC), Scheduled Tribes

She mentioned various initiatives, including prematric and post-matric
lowships, and flagship
schemes such as the Pradhan Mantri Anusuchi plati
pradhan Mantri Janjati Adipradhan Mantri Janjati
pradhan Mantri
pradhan She mentioned various

-

cial transactions, sporting achievements and giant leaps in space research by the Indian Space Research Organisation to the trans formation in the education sector in terms of quality of learning, physical infrastructure inclusion. and digital

Pete Hegseth

The Senate confirmed Pete Hegseth as the U.S. De-fence Secretary in a dra-matic tie-breaking vote late Friday, despite serious concerns about his qualifi-cations and allegations of misconduct

cations and allegations of misconduct. The Republican-led Se-nate was determined to confirm Mr. Hegseth, a former Fox News host. Critics, including Demo-crats and some Republi-

cans, expressed skepticism about his ability to lead the

Pentagon effectively.

is Trump's

Secretary

Defence

NIT. Ratia, a Canadian national of Pakistani ori-gin, on November I3 last year filed a "petition for a writ of certiorari" before the U.S. Supreme Court to review the lower court's ruling. uon to india in this case. In his petitions for a writ of certiorari to review the judgment of the U.S. Court of Appeals for the Ninth Circuit, Mr. Rana argued migration Law Center sub-mitted to the Reserve Bank of India," the U.S. Solicitor General had said.

Currently detained at the Metropolitan Detention Center in Los Angeles, he is known to be association to be associated to be a second to be a

...

942 police personnel to get gallantry and service medals

The Hindu Bureau

A total of 942 personnel from the police, Fire Ser-vices, Home Guard and Ci-vil Defence (HG&CD), and Correctional Services were named for gallantry and service medals on Saturday, the eve of Republic

y. According to a government statement, 28 of the 95 gallantry awards will go to personnel deployed in areas affected by left-wing areas affected by left-wing extremism and 28 to per-sonnel from the Jammu and Kashmir region. Three personnel from the north-east and 35 from other re-gions have been named. Of the 101 President's Medals for Distinguished Service (DSM), 35 go to pol-Service (DSM), 35 go to pol-service (DSM), 35 go to pol-services, seven to HG&CD, and four to Correctional

and four to Correctional Services personnel. Among the 746 medals

for meritorious service (MSM), 634 go to the police service, 37 to Fire Services, 39 to HG&CD, and 36 to Correctional Services, the

statement said. Sixteen Indo-Tibetan Sixteen Indo-Tibetan Border Police (ITBP) per-sonnel, including Inspec-tor-General Clay Khongsai and Deputy Inspector Gen-eral Sanjay Kumar Kothari

Humayun Bhat was killed during an encounter with terrorists in Kashmir.

have been named for me

The Border Security
Force (BSF) gets 56 medals,
including five gallantry medals,
contained for gallantry medals
between the security of the se The Border Security

Kumar and Senior Superin-tendent of Police Rakesh Balwal, have been selected

Balwal, have been selected for gallantry medals. The gallantry medal re-cipients include Deputy Superintendent of Police Humayun Bhat, one of four officers to lay down their lives during an encounter with terrorists in Kokernag of south Kashmir in Ser

As microfinance institu-tions (MFIs) have allegedly

been adopting coercive tactics for recovery of loans, which has caused fi-

nancial distress in several

Court-appointed panel applied for

A day after The Hindu re-

ported that Banke Bihari Temple in Uttar Pradesh's

Vrindavan was granted Fo-reign Contribution Regula-

tion Act (FCRA) registra-tion without the temple tion without the tempie priests applying for it, a go-vernment source said a court-appointed manage-ment committee had ap-

ment committee had ap-piled for the registration. The source said the tem-ple is currently managed by the Mathura district court, which had formed the panel. "This manage-ment committee under court approval has applied for FCRA Bicence," the

"The temple used to be

FCRA of U.P. temple

Seven get Padma Vibhushan. 19 named for Padma Bhushan

23 of the 139 Padma awards announced on the eve of Republic Day go to women; Bibek Debroy, Pankaj Udhas, Shekhar Kapur, P.R. Sreejesh, Anant Nag, Jatin Goswami to get Padma Bhushan

of India Justice Jag-dish Singh Khehar (retired), who gave a dis-senting opinion in the Su-preme Court Bench that outlawed triple talaq in 2017, was selected for Pad-ma Vibhushan, the coun-try's second highest civitry's second highest civi-lian award, as the Padma awards were announced on Saturday, the eve of Re-public Day. Gastroenterologist D. Nageshwar Reddy, Kathak dancer Kumudini Rajni-kant Lakhia, and violinist L. Subramaniam were

L. Subramaniam were among the Padma Vib-hushan winners. Iconic writer M.T. Vasudevan Nair, Japan's Suzuki Motor leader Osamu Suzuki, and Bhojpuri and Maithili sin-ger Sharda Sinha have been named for Padma Vibhushan posthumously. Economist Bibek De

broy, ghazal singer Panka Udhas, former Maharash tra Chief Minister Manohar Joshi and former Bihar De-

Distinguished service





Bhushan posthumously. Bhushan posthumously. Filmmaker Shekhar Kapur, double Olympic bronze medal-winning hockey player P.R. Sreejesh, actor Anant Nag, Assam's folk

culture exponent latin Gos wami, and Indian-Ameri-can engineer Vinod Dham, widely known as the "Fath-er of the Pentium chip",

against firms locking up houses of people for de-layed repayment of loans.

Seven cases booked Mr. Siddaramaiah said four

demolition, has been named for Padma

Pawan Kumar Goenka Chairman of the Indian Na tional Space Promotion and Authorisation Centre aalaria researcher Chetar President of the Indian Na Universal Service Bus (USB); physicist M.D. Srini-vas; agriculture scientist Surinder Kumar Vasal; Sethuraman Panchanath-an, Director of the U.S. Na-tional Science Foundation; singer Arijit Singh; cricke-ter R. Ashwin; and Libia Lobo Sardesai, who plawed Lobo Sardesai, who played an important role in Goa's freedom movement; will get Padma Shri. For 2025, the President

has approved 139 Padma awards - seven Padma Vibhushan, 19 Padma Bhush an and 113 Padma Shri awards. Twenty-three awards. Twenty-turee awardees are women and the list includes 10 persons from the category of fo-reigners/NRI and 13 pos-

Karnataka govt. to promulgate ordinance to crack down on erring financial institutions

loans. However, forcible recoveries by hiring rowdistrict for citizens to lodge dies has been causing ha-rassment, fear, insult, dis-respect, and suffering complaints against microfi-nance firms, he said. "The police can initiate ong borrowers. Locking action based on these com-plaints," Mr. Siddaramaiah miliating them, he said, warning strict action

Deputy Chief Minister Deputy Chief Minister D.K. Shivakumar, Law Minister H.K. Patil, Home Minister G. Parameshwara, Revenue Minister Krishna Byre Gowda, and top officials attended the meeting. Several MFIs have claimed that excessive borrowings by families, diversion of loans for unproductive purposes. Family

tive purposes, family problems, and exorbitant rate of interest by unregis-tered financial firms have been causing financial distress among borrowers which "forced" them to take extreme steps.
The combined Opposi-

tion BIP and ID(S) leaders, meanwhile, criticised the government over its inac-tion to the complaints of al-

Two Kirti Chakras, 14 Shaurva Chakras in 93 Gallantry Awards

The Hindu Bureau

The President of India and Supreme Commander of the Armed Forces, Droupa-di Murmu, has approved two Kirti Chakras, one of them posthumous, and 14 Shaurya Chakras, three of them posthumous, in a to-tal of 93 gallantry awards nel of the armed orces and Central Armed Police Forces (CAPF) on Sa

Folice Forces (CAFF) on Sa-tuday, the eve of the 76th Republic Day. Eleven awards are posthumous. George Sensa Medals, with seven of them posthumous, two Nao Sena Medals, with seven of them posthumous, two Nao Sena Medals, and Major Mantriya Rifles Major Mantriya Rifles with 22 Rashriya Rifles from the Artillery Regi-ment and with 28 RR (pos-thumously), were selected counter-terrorist opera-

counter-terrorist opera-tions in Jammu and Kashmir.

The President has ap-

The President has ap-proved 305 defence deco-rations to the armed forces and other personnel. These include 30 Param Vishisht Seva Medals; five Uttam Yudh Seva Medals; 57 Ati Vishisht Seva Me 57 Ati Vishisht Seva Medals; 10 Yudh Seva Medals; 44 Sena Medals (Devotion to Duty); eight Nao Sena Medals (Devotion to Duty); and 136 Vishisht Seva Medals.

President Murmu approved S Mentioned-in-Despatches to Armed Forces prescented including

es personnel, including four posthumously. These include 55 from the Indian Army – 14 for Operation Rakshak, including four posthumous awards; eight for Operation Snow Leopard; six for Operation Hi-fazat; two for Operation Sa-hayta; one for Operation Rhino; one for Operation iblinic, one for Operation Meghdoot, two for Operation Meghdoot, two for Operation Couribians one for Operation Couribians one for Operation Reconnaisance; one for Operation Reconnaisance; one for Operation Cockhawhar, one for Operation CAS Evacuation; one for IS Duty, and Iz for misser of the Cockhawhar, and Iz for misser include three to Indian Air Force personnel for In addition, the President approved the President According to the President A

and Tatrakshak Medal to eight Coast Guard personnel.

The citation of Major

Manjit details that on April 25, 2024, he assiduously trailed the movement of



localising the probable tar get complex, the officer es get complex, the officer es tablished the initial con

tablished the initial cor-don, during which terrorists retaliated and made several attempts to break the cordon through out the intervening night. On April 26, 2024 at 5.30 a.m., one of the terro-rists entered the adjoining

orchard favouring natural cover. The officer pinned down the terrorist, and evacuated a trapped civi-lian and two children. Major Manjit started crawling towards the terrorist and on noticing the movement of the terrorist who was trying to lob a grenade at the scout, the Major en-gaged him in a fierce fire-fight and eliminated him, the citation states, adding

Khan, states that he was part of an ambush in the dense jungles of Lolab Val ly 23, 2024. At 11.50 p.m., his party observed two terrorists, one at a very close terrorist to his team, she ing complete disregard to ing complete disregard to personal safety, Naik Dil-war Khan, though under heavy volume of fire, lunged and grasped the ter-rorist, engaging him in hand-to-hand combat, while the other terrorist continued to fire indis-criminately from dis-tance, the citation states. During this action Naik Khan was grievously in-jured but did not let go of the terrorist and killed him, firing at point blank range before succumbing to his wounds.

For displaying indomita ble courage, utter disre gard to perso gallantry of highest order Naik Dilwar Khan is recon mended for the award of Kirti Chakra (Posthumous),

Union govt. finally notifies UPS for its employees

The Hindu Bureau NEW DELHI

Five months after the Centre announced a new Unified Pension Scheme (UPS) with assured benefits government es the Finance Minis try late on Friday notified the scheme as an option for workers covered by the National Pension System (NPS) to be effective from

nancial distress in several districts of Karmataka, Chief Minister Săddara, Chief Minister Săddara, nounced that the govern-ment will promulgate an ordinance to crack down After public anger against forcible methods of Agriculture and the con-gramatic forcible methods of Mr. Siddaramaiah, who al-so holds the finance port-folio, chaired a meeting senior officials, and repre-senior officials, and repreassured pension to govern-ment employees who joined service on or after January 1, 2004, and had replaced an older arrange senior officials, and repre-sentatives of MFIs and said the ordinance would regument that guaranteed pen-sions for government emlate MFIs and prohibit them from outsourcing ployees equivalent to 50% of their last drawn salary them from outsourcing loan recovery functions, for which goondas and rowdies are hired to intimi-date borrowers. It would also ban recovery of loans that were considered fis-cally unsustainable. The LIPS restores the assurance

UPS restores the assurance of 50% of salary as pension for Union government employees, with a periodic dearness relief hike.
It also promises a family pension equivalent to 60% of a government worker's pension on their demise, and a lumpaum superamuation payout in addition to period their demise, the control of their control of



tions. We are banning financial companies from outsourcing loan recovery Mr. Siddara

'Exorbitant interest'

"There are many unre-gistered finance firms. The new law will regulate unre-gistered financial institu-

The Chief Minister said the

priests and was under priv-

ate management earlier. The FCRA was approved af-

ter due application and processing after the court approval. As per the appli-cation, the temple receives

a lot of foreign currencies and they also intend to re-ceive donations from

ceive donations from abroad," the source said. The temple committee is locked in a legal battle with the Bharatiya Janata Party (BJP)-led government in the State over the con-trol of the temple's affairs and funds. The committee ment's nominees.

ment's nominees.

The temple priests reiterated that they were not consulted while applying for the registration.

Reserve Bank of India (RBI) allowed MFIs to levy up to

Karnataka Chief Minister Siddaramaiah and Deputy Ch D.K. Shivakumar at a meeting in Bengaluru. SPECIAL ARR

ing between 21% and 29%. There is no regulation."
Moreover, a family cannot be given more than three loans. However, four to six are being given without looking at repayment capacity. The new law will regulate excessive borrow-ings by families, Mr. Sidda-

He said the government

Mr. Siddaramalah said four people who had borrowed loans have died by suicide and seven cases have been booked against microfi-nance companies till now. He said the government has also decided to amend existing laws governing money lenders and pawn brokers. The police have been instructed to take up cases without waiting for complaints. "If there are

violations of rules and reg-ulations and laws, police tion," he said.

A helpline will be set up
in the offices of Deputy

Vengaivayal residents stage sit-in amid curbs

Residents of Vengaivayal in Pudukkottai district staged a sit-in at the village on Saturday after the police pre-vented them from taking part in a demonstration or ganised by the VCK in the own. The protest was held to

condenn the Crime
Branch-Criminal Investigation Department (CB-CID)
Department (CB-CID)
Case of human fasces having been found floating in a
Scheduled Caster residents
at Vengalvayal in 2022.
The status report saidbers of the same
community.
The same status report
The same statu

'We are being framed' "We have gathered on our streets to protest. We are being denied our basic



tioned at a checkpoint near the Vellanur police station. More than 150 pol-icemen were deployed, un-der Pudukkottai ADSP M. Muralitharan, in the village at seven key locations.

were arrested after enter-ing the village to express solidarity with the protest-

ing villagers. Among them were North District secre-tary Ilamathi Ashokan; West District secretary Ka-ru. Vellainenjan; Siruthai Sva; and Rajendran. Another group of VcK, Another group of vcK, to to the district adminis-tration at the Collectorate.

demanding a fair investiga-tion, and then staged a

protest near the Collecto-rate. Thereafter, 28 per-sons, including VCK State vice-secretary T. Kalaimurasu, were arrested. Separately, members of

the VCK lawyers' wing sub-mitted a petition at the Vel-lanur police station, seeking permission to enter the village. They said the Schethe village required legal assistance. However, the police denied them per-mission and asked them to approach the Collector K Balakrishnan former

K. Balakrishnan, former State secretary of the CPI (M), said the CB-CID's sta-tus report raised several questions. Given the sensi-tivity of the issue, the go-vernment should order a fresh investigation. In Tiruchi, Lok Sabha member Dural Vaiko ex-

member Durai Vaiko expressed confidence in the CB-CID's investigation.

ditional pool corpus with additional Union government contribution to sup-port the UPS' assured

time of retirement.

As per the notification the UPS shall be applicable

'choose" the UPS option

main covered by the NPS

but their pension incomes

will be linked to the nest

option, their retirement corpus will consist of two

funds – an individual cor-pus with employee contri-bution and matching Un-

government government tribution of 10% of base contribution of 10% of bas-ic pay plus dearness allo-wance, made through their time in service, and an ad-ditional pool corpus with

ir working years. For se exercising the UPS ion, their retirement

egg they build up over

Those who do not opt fo

Seven get Padma Vibhushan, 19 named for Padma Bhushan

23 of the 139 Padma awards announced on the eve of Republic Day go to women; Bibek Debroy, Pankaj Udhas, Shekhar Kapur, P.R. Sreejesh, Anant Nag, Jatin Goswami to get Padma Bhushan

The Hindu Bureau

NEW DELHI

ormer Chief Justice of India Justice Jag-dish Singh Khehar (retired), who gave a dissenting opinion in the Supreme Court Bench that outlawed triple talag in 2017, was selected for Padma Vibhushan, the country's second highest civilian award, as the Padma awards were announced on Saturday, the eve of Republic Day.

Gastroenterologist D. Nageshwar Reddy, Kathak dancer Kumudini Rajnikant Lakhia, and violinist L. Subramaniam were among the Padma Vibhushan winners. Iconic writer M.T. Vasudevan Nair, Japan's Suzuki Motor leader Osamu Suzuki, and Bhojpuri and Maithili singer Sharda Sinha have been named for Padma Vibhushan posthumously.

Economist Bibek Debroy, ghazal singer Pankaj Udhas, former Maharashtra Chief Minister Manohar Joshi and former Bihar Deputy Chief Minister Sushil Kumar Modi have been named for the Padma

Distinguished service

The Padma awards celebrate the contribution of stalwarts in various fields. Below are the Padma Vibhushan winners:



Duvvur **Nageshwar Reddy**

Field: Medicine State: Telangana



M.T. Vasudevan Nair (Posthumous) Literature

Kerala



Justice J.S. Khehar (retd.) **Public Affairs**

Chandigarh



Subramaniam Art

Karnataka



Trade Country: Japan Sharda Sinha

Osamu Suzuki

(Posthumous)

Kumudini

Gujarat

Rajnikant Lakhia

(Posthumous) Bihar

Bhushan posthumously. Filmmaker Shekhar Kapur, double Olympic bronze medal-winning hockey player P.R. Sreejesh, actor Anant Nag, Assam's folk culture exponent Jatin Goswami, and Indian-American engineer Vinod Dham, widely known as the "Father of the Pentium chip", are among those selected

for Padma Bhushan. Sadhvi Rithambhara, who participated in the Babri Masjid demolition, has been for named Padma Bhushan.

Pawan Kumar Goenka. Chairman of the Indian National Space Promotion and Authorisation Centre; malaria researcher Chetan Chitnis; Ashutosh Sharma, President of the Indian National Science Academy: Ajay V. Bhatt, creator of the Universal Service Bus (USB); physicist M.D. Srinivas; agriculture scientist Surinder Kumar Vasal; Sethuraman Panchanathan, Director of the U.S. National Science Foundation; singer Arijit Singh; cricketer R. Ashwin; and Libia Lobo Sardesai, who played an important role in Goa's freedom movement; will get Padma Shri.

For 2025, the President has approved 139 Padma awards - seven Padma Vibhushan, 19 Padma Bhushan and 113 Padma Shri awards. Twenty-three awardees are women and the list includes 10 persons from the category of foreigners/NRI and 13 posthumous awardees.

- Overview of Padma Awards 2025 (पद्म पुरस्कार 2025 का अवलोकन)
- Total Awards (कुल पुरस्कार): 139
- Padma Vibhushan (पद्म विभूषण): 7 recipients
- Padma Bhushan (पद्म भूषण): 19 recipients
- Padma Shri (पद्म श्री): 113 recipients
- Women Awardees (महिला पुरस्कार विजेता): 23
- Foreign/NRI Recipients (विदेशी/एनआरआई प्राप्तकर्ता): 10
 - Posthumous Awards (मरणोपरांत पुरस्कार): 13

- Padma Vibhushan Awardees (पद्म विभूषण विजेता)
- - (Literature / साहित्य)
 - 🕜 Osamu Suzuki (Posthumous) / ओसामु सुजुकी (मरणोपरांत) (Trade / व्यापार) 👸 Sharda Sinha (Posthumous) / शारदा सिन्हा (मरणोपरांत) (Art / कला)

- Padma Bhushan Awardees (पद्म भूषण विजेता)
- Bibek Debroy / बिबेक देबरॉय (Economist / अर्थशास्त्री)
 Pankaj Udhas / पंकज उधास (Ghazal Singer / गज़ल गायक)
 Shekhar Kapur / शेखर कपूर (Filmmaker / फ़िल्म निर्माता)
 P.R. Sreejesh / पी.आर. श्रीजेश (Hockey Player / हॉकी खिलाड़ी)

 - Anant Nag / अनंत नाग (Actor / अभिनेता)
 Jatin Goswami / जितन गोस्वामी (Cultural Expert / लोक संस्कृति विशेषज्ञ)
 Vinod Dham / विनोद धाम (Engineer, "Father of Pentium Chip" / इंजीनियर, "पेंटियम चिप के जनक")
- ♦ Sadhvi Rithambhara Connected to the Babri Masjid Demolition (राजनीतिक रूप से विवादास्पद)
 - Pawan Kumar Goenka Indian Space Promotion Leader
 - Arijit Singh Renowned Playback Singer
 - ♦ Ajay V. Bhatt Inventor of USB (यूनिवर्सल सर्विस बस के जनक)

Origins of Padma Awards (पद्म पुरस्कार की उत्पत्ति):Established in 1954 by the Government of India.

Recognizes contributions in Art, Public Affairs, Science, Trade, and Literature.

Global Recognition (वैश्विक मान्यता):Awards have been granted to international figures like Osamu Suzuki.

Posthumous awards honor individuals with lasting historical impact.

- Controversial Figures (विवादास्पद व्यक्ति):
 - Sadhvi Rithambhara played a role in the Ram Janmabhoomi movement, adding a political dimension.
 - Recognizing Babri Masjid demolition figures highlights government ideological inclinations.

- Foreign Awardees (विदेशी प्राप्तकर्ता):
 - Osamu Suzuki (Japan), Vinod Dham (USA-India) show international collaboration in industry and technology.
- Geopolitical Relevance (भू-राजनीतिक संबंध):
 - Recognizing Pawan Kumar Goenka links to India's space program.
 - Honoring Ajay Bhatt (USB inventor) shows technological advancement.

- Government Influence on Awards (सरकार का प्रभाव):Selection of Sadhvi Rithambhara suggests BJP-aligned ideology.
- Former CJI J.S. Khehar, linked to Triple Talaq Judgement, reflects legal-political recognition.

Udaipur, Indore crowned India's first Ramsar wetland cities

Claude D'Souza & Ajay Singh Ugras | TNN

Udaipur/Jaipur: Rajasthan's Udaipur and Madhya Pradesh's Indore have become India's first two cities to receive international accreditation as 'Wetland Cities' under Ramsar Convention. Globally, only 31 cities hold the prestigious title.

Announcing the milestone on Friday night on X, Union minister for environment, forest and climate change Bhupendra Yadav said, "Double joy! A testimony to PM Shri @narendramodiji's vision of marching ahead, aligning economy and ecology."

On Saturday, Modi wrote on X, "Congratulations to Indore and Udaipur! This recognition reflects our strong commitment to sustainable development and nurturing harmony between nature CONSERVATION TO GET A BOOST

FATEHSAGAR LAKE

- Udaipur is surrounded by 5 lakes, which also conserve many fish species and attract migratory birds
- ➤ Ramsar Conference of the Parties in 2015 (COP12) passed the establishment of Wetland City Accreditation system globally
- First batch of wetland cities from China, France and Sri Lanka, among others, was notified in 2018
- > Second batch of cities from Japan, Morocco, Iraq, Spain, and others was declared in 2022

and urban growth. May this feat inspire everyone to keep working towards creating greener, cleaner, and more eco-friendly urban spaces across our nation."

Ramsar Convention,

signed in 1971 in Iran's Ramsar, is an international treaty dedicated to the conservation and sustainable use of wetlands.

▶ Continued on P 4

79	Chilika Lake	Odisha	October 1981
80	Keoladeo National Park	Rajasthan	October 1981
81	Nagi Bird Sanctuary	Bihar	June 2024
82	Nakti Bird Sanctuary	Bihar	June 2024
83	Nanjarayan Bird Sanctuary	Tamil Nadu	August 2024
84	Kazhuveli Bird Sanctuary	Tamil Nadu	August 2024
85	Tawa Reservoir	Madhya Pradesh	August 2024

- Introduction (परिचय)
- Udaipur (Rajasthan) and Indore (Madhya Pradesh) have become India's first cities to receive 'Wetland Cities' accreditation under the Ramsar Convention.
- Globally, only 31 cities hold this prestigious title.

- International Recognition (अंतरराष्ट्रीय मान्यता)
- Udaipur and Indore **recognized under Ramsar Convention** for their wetland conservation efforts.
- Only Indian cities among 31 global wetland cities.
- Significance of Udaipur (उदयपुर का महत्व)
- Surrounded by 5 lakes, including Fatehsagar Lake.
- Supports rich fish biodiversity and migratory birds.

- <a> Historical Ramsar Conference (इतिहासिक रामसर सम्मेलन)
- In 2015 (COP12), Ramsar Convention passed the Wetland City Accreditation System globally.
- The first batch of wetland cities was recognized in 2018 (China, France, Sri Lanka, etc.).
- The second batch (Japan, Morocco, Iraq, Spain, etc.) was added in 2022.

- •
- 🕠 Wetland Ecosystem (आर्द्रभूमि पारिस्थितिकी तंत्र)
- **Udaipur's interconnected lakes**: Fatehsagar, Pichola, Udaisagar, Swaroop Sagar, and Doodh Talai.
- Indore's rejuvenated rivers and wetlands: Sirpur Lake, Bilawali Lake, and Khan River.

- Economic Aspects (आर्थिक पहलू)
- 🚯 Tourism & Economy (पर्यटन और अर्थव्यवस्था)
- Udaipur & Indore attract eco-tourism due to their lake systems and biodiversity.
- Sustainable wetland conservation boosts local economy and job creation.
- 🚯 Urban Planning & Investment (नगरीय योजना और निवेश)
- Smart City projects integrating wetland conservation.
- Eco-friendly urban growth attracting international funding.



Fungal infection affects TB survivors: study





Genocide and averted gaze Leaders must think why 'never again' continues to be breached



INSIDE

Cardiac surgeon K.M. Cherian passes away at 82

CHENNAL surgeon K.M. Cherian, who performed the country's first



Revanth says Centre trying to take over varsities

HYDERABAD Telangana CM A. Revar

urged Prime Minister Narendra Modi to reject proposed UGC amendments on Vice-Chancello appointments, calling them an attack on the Constitution. He raised concerns over the Centre trying to usurp State contro er universities, to PAGE 3



310 lakh cr. debt of billionaires waived by BJP

Republic Day showcases diversity, military might

President Droupadi Murmu leads the celebrations, with Indonesian President Prabowo Subianto as special guest; tableaux celebrating 150 years of tribal activist Birsa Munda and 75 years of the enactment of Constitution were the key highlights; more than 77,000 passes issued, with 32,000 passes sold to citizens, according to the Defence Ministry

Satvika Mal

ndia showcased its military might and cultural diversity with a parade keeping special focus on the 75 years of the is a consistency of the constant of the constant of the constant of the consistency of the constant of the c enactment of the Constitu

10.30 a.m., with the visit of Prime Minister Narendra Modi to the National War Memorial, where he led



an aerial view of the marching contingents and Army tanks. ANI & PIB/PTI

the nation in paying so-lemn tributes to the fallen heroes. The President and her Indonesian countertees stood still, the Nationtees stood still, the Nation-al Flag was unfurfied, fol-lowed by the playing of the National Anthem with a thunderous 21-gun salute using 105-mm light field guns, an indigenous wea-pon system. The Indonepart were escorted by the President's Bodyguard, the senior-most Regiment of the Army. While the invi-

sian Army graced the event with a music band. Tableaux celebrating 150 years of tribal activist Birsa Munda and 75 years of the Constitution spot-lighting the "father of the Indian Constitution" Dr.

B.R. Ambedkar were key B.K. Ambeusar were see, highlights. Nearly 10,000 special guests from various walks of life were invited. Accord-ing to the Defence Minis-try, over 77,000 passes were issued, with 32,000

A SECTION ... 11111

citizens. The parade was heralded by 300 cultural artists playing "Sare Jahan Se Achha" with musical in-struments. Lieutenant-General Bhavnish Kumar, General Officer Command-

ing, Delhi Area, command-ed the parade. Slowly, the Brigade of the Guards, the Jat Regi-ment, the Garhwal Rifles, Jammu and Kashmir Rifle down Kartavya Path, with down Kartavya Path, with patriotic music and beats. Over 31 tableaux added co-lour to the show. For the first time, a tri-services ta-bleaux rolled down Karta-vya Path, displaying the spirit of jointness and inte-gration.

balloons carrying banners with the official logo dep-icting 75 years of enact-ment of the Constitution in both English and Hindi.

'REPUBLICAN JOURNEY'

Trump moots 'clean-out' of Gaza. allows transfer of bombs to Israel

Associated Press

1.5. President Donald Trump said he would like to see Jordan, Rgypt and other Arab nations increase the number of Palacetes of the Palacetes o U.S. President Donald

wirtual clean slate.

During a 20-minute question and answer seepresspersons aboard Air
Force One, Mr. Trump also
decessor's hold on sending
2,000-pound bombs to Ispoint meant to reduce civic
lian casualties during Israel's war with Hamss in
Mr. Trump has built his



political career around be-ing unapologetically pro-Israel. On his vision for Ga-za, Mr. Trump said he had a call earlier in the day with King Abdullah II of Jordan and would speak on Sunday with Seed of Expt. Career and Seed of Expt. Such a drastic disulace-Such a drastic displace-ment of people would openly contradict Palestinian identity and deep connection to Gaza. Still Mr. Trump said the part o the world that encompass es Gaza, has "had many

me worst mar encompassmany conflicts" over centuries. He said resettling
'could be temporary or
could be temporary or
"Something has to hapencompass." The many said. "Bus
site right now. Almost everything's demolished, and
people are dying there."
Benjamin Netanyahu, in a
statement on Sunday,
thanked Mr. Trump for
give Israel the tools it
needs to defend itself." He
did not mention Mr.
estinian refugees.

Extremists call to boycott + celebrations fails: ULFA claims 'blast' in Guwahati

The Hindu Bureau

People across eight north-eastern States defied a boy-cott call by some extremist groups, including the Unit-ed Liberation Front of Asom (Independent), to celebrate the country's 76th Republic Day on Sunday.

76th Republic Day on Sunday.

An aberration in the festival-like atmosphere was a "bomb blast" the ULFA(I) claimed to have detonated on a truck parking lot in the Beharbari area on the outskirts of Guwahati in the morning. Another bag, suspected to contain an improvised explosive dev

suspected to contain an improvised explosive device, was found at the Inter-State Bus Terminus nearby. The police downplayed the outlawed outfit's claim. "It was a loud sound, not an explosion. We have launched an operation to catch the miscreants involved," Guwahati's Commissioner of Dolice Purtha missioner of Police, Partha Sarathi Mahanta, said. Earlier, the Paresh Ba-ruah-led ULFA(I) claimed it

carried out blasts in Guwa-hati and other parts of As-sam "not to harm anyone sam "not to harm anyone but send a message to the people to not participate in occupational India's Inde-pendence Day and Repu-blic Day programmes in the future".

vernment was developing infrastructure to turn Di-brugarh, Tezpur and Silchar towns into cities. "Di-brugarh will have an Assembly complex by 2027 and will be Assam's second capital. Tezpur will emerge as the cultural capital and will house a Raj Bhavan. Silchar will house a mini-secretariat and the Chief Secretary's Office," he said. He also announced the in-He also announced the in-clusion of chess in Assam's school curriculum and a rollback of the New Pen-sion Scheme for State go-vernment employees from

Assam's second capital Speaking at a Republic Day programme in Dibrugarh, Chief Minister Himanta Biswa Sarma said the go-

ary 26 and August 15 to show they mean business. The goriest of such attacks was on August 15, 2004, killing 13, including 10 chil-dren, in eastern Assam's Dhemaji. ity, integrity, and vibrant spirit," he posted on X. His Mizoram counter-part Laiduhoma said, "Re-public Day is a reminder of our collective commitment come and the work still ahead in building an inclusive and just society." Mr cal of Mr. Singh's handling In Nagaland, Governor

La. Ganesan said the State government had made ev-ery effort to resolve the "Naga political issue", a eu-phemism for the peace talks between the Centre and his Cabinet apprising Union Home Minister Ami

No additional funds for MGNREGS; wages delayed

Sobhana K. Nair NEW DELHI

The Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), the Union go vernment's flagship scheme to provide guaran-teed employment of 100 days for rural workers, ha

days for rural workers, has not received an additional budgetary allocation in budgetary allocation in feature and the second of ly basis or in any case not later than a fortnight after



the date on which such work was done". The delay in the materials the centre has a liability of \$5,718 crote against its \$0.5718 crote against its Components. When there is a continued to the cost of the materials and the remaining 40% is an experiment of the rem

last Budget of the Narendra Modi government's second term, ₹86,000 crores was allotted for the scheme. Despite the deficit and repeated requests forwarded by the Union Rural Development Ministry to the Fi-nance Ministry, no addi-tional funds were provided.

This is breaking from

This is breaking from the past trend of allocating additional funds. To criticism on low allocation for the control of the con

the original allocation of \$61,500 crore to \$1,11,500 crores, one of the highest jumps.
Academics and activists

Academics and activists closely monitoring the pro-gramme say the low bud-getary allocation leads to artificial suppression of de-mand. This problem was also flagged by the Parlia-mentary Standing Commit-tee on Rural Development

saiso lagged by the Parimatee on Rural Development in the report tabled in Feirral pruning of funds at Budget Estimate (BE) stage itself does have a castimportant aspects such as
timely release of wages, rewhich have a telling impact
on the progress of the
Scheme, "the panel noted
in to report.

April 1.

Manipur Chief Minister
N. Biren Singh hoped the
Republic Day celebration
would mark the beginning
the think of the
the ethnic violencescarred State. "On this historic day, as we commemorate the adoption of our
glorious Constitution in

INBRIEF



Akhilesh Yadav takes dip at Sangam during Maha Kumbh

Samajwadi Party (SP) president Akhilesh Yadav visited the Maha Kumbh and took a dip at the Sangam in Prayagraj on Sunday. Talking to the media, Mr. Yadav said he aimed to bring harmony, peace and tolerance in society so that the country will continue to move forward with these values for the betterment of the people. "On Republic Day, on this auspicious occasion, I got the opportunity to take 11 dips in the Sangam as per the tradition. Today, we take a pledge that there should be harmony, goodwill and everyone should keep moving forward with tolerance," said Mr. Yadav. Taking a swipe at Uttar Pradesh Chief Minister Yogi Adityanath, he said the Maha Kumbh was a spiritual event and not a

Ashwini Vaishnaw interacts with invitees of Mann Ki Baat

Union Minister of Information and Broadcasting Union Minister of Information and Broadcasting Ashwini Vashnaw on Sunday interacted with special invitees of Prime Minister Narendra Modi's Mann Ki Baat programme who were selected as distinguished guests for the Republic Day parade. They were invited by Akashvani to its New Delhi office. "On the special invitation of the Prime Minister, individuals and representatives of organisations who have undertaken remarkable work, had been invited to witness the Republic Day parade. These individuals have been personally mentioned by the Prime Minister over the past 10 years in the iconic Mann Ki Baat programme broadcasted on Akashvani," read a press release.

Assam tea workers prone to post-TB fungal disease: study

Chronic pulmonary aspergillosis, or CPA, is a life-threatening infection that strikes individuals with immunodeficiency; an earlier study had flagged prevalence of epidemic dropsy in State's tea belt

Rabul Karmakar

wo years after a stu-dy flagged the epi-demic dropsy threat, a new research pap-er has identified a life-threatening fungal infec-tion mostly in the damaged lungs of tuberculosis survi-vors among Assam's tea

TB has been a major pu-blic health issue across the tea belts in Assam's Brah-maputra and Barak valleys, afflicting 217 per 1,00,000 population according to the National TB Prevalence Survey of 2019-2021. The risk factors include pover-ty, poor nutrition, kitchen smoke, close contact with

A team of researchers from the Assam Medical College and Hospital in Di-brugarh has now put the focus on chronic pulmon-ary aspergillosis (CPA), an infection caused by Aspergillus fumigatus, a fungus that strikes individuals with immunodeficiency. CPA is a chronic lung disease that occurs common-ly in pre-existing lung cavi-ties. It mostly occurs in post-TB or active TB pa-tients and shares similar clinical features with



Persistent problem: TB has been a major public health issue across the tea belts in Assam's Brahmaputra and Barak valleys, AN

The study, the first of its kind among tea workers, was published in the jour-

was published in the jour-nal PLOS Neglected Tropi-cal Diseases. Its authors are Aishwarya Selvasekhar, Aishwarya Selvasekhar, Googi, and Pronami Borah. The team examined 128 patients visiting three tea garden hospitals and two referral hospitals in Dibra-garh district, which has 179 of Assam's 803 major tea estates and a high TB bur-den. These patients - tea workers and their depen-dents from four tea estates - experienced chronic cough,

haemoptysis cough, haemoptysis (coughing blood), weight loss or fatigue, and other respiratory symptoms for

three months or more.
Using advanced serological testing and radiological imaging, the researchers recorded a CPA
year-long study. CPA seropestivity was 18.5% in active TB patients but spiked to 48.9% in those who had completed treatment, underlining the fungal infections of the control of the control of the control of the control of the completed in the completed by the completed by the completed in the completed point of the control of three months or more

Worse than Africa The mean age of the pa-tients was 41.9 and CPA was found to be more com-

lence of 60 cases per 1,00,000 people exceeds the global average of 42. The scenario is worse than in African countries such as Nigeria and the Democratic Republic of Congo, where the prevalence ranges from 20 to 50. The researchers suggested within ing for Aspergillus antibodies in patients who come with respiratory symptoms after comple-tion of TB treatment to diagnose the cases early and treat them

subsequently.
"This will help to decrease the morbidity and mortality due to this ne-glected and under-diag-nosed disease in tea gar-den hospitals as well as den hospitals as well as other TB hospitals, 'they said. The researchers ad-vised campaigns to train healthcare providers to re-cognise CPA symptoms and educate workers about respiratory health, nutri-tion, and hygiene. In the context of nutri-comparts to the context of the provider of the context of the context of the context of the con-text of the con-text

on epidemic dropsy pu-blished in the Cureus Jour-

nal of Medical Science.

Epidemic dropsy is caused by the consumption of edible oils contamiworker (600 against 48 females). In the of edible oils contaminated with the oil from Argent and the study, Assam's high CPA prevaof Mexican origin.

Flute-maker hopes Padma award will open up new avenues

Shubhomoy Sikdar

With weekdays immersed n creating wooden art forms, Sundays for Pandi forms, Sundays for Pandi Ram Mandavi is a time for rest. But this one, which coincides with Republic Day, is different. It has been spent answering a steady stream of congratu-latory calls from across the country and beyond, on his humble feature phone. Mr. Mandavi has been

chosen for the Padma Shri, ndia's fourth-highest civi ian award, for his contri-bution to the field of wood craftsmanship and is paricularly known for popula ticularly known for popula-rising a specially designed flute. The 68-year-old be-gan his love affair with the art at the tender age of 15. The artist, whose works

The artist, whose works have travelled across India and beyond, feels the recognition will inspire others with the says it will also create opportunities for existing artists in his village of Gadthengal in Narayanpur district of Chhattisgarh and the larger Bastar region. "There are various forms of painting and ter-racotta art also in Gadhbengal and many more across Bastar. But most of us lack marketing skills and



davi, who was born into a Gondi-speaking family from the Muriya tribe and

From wooden art that ranges from tiny combs to gigantic statues of Muria tribal men and women and even doors and pillars with much recognition. "In the early 1990s, when it was being exhibited in Delhi, it caught the fancy of a group of visiting Japanese school-children, each wanting to buy more than a piece. I realised its potential and over the years, I have lost count of the number of philips of the country of the His flute differs from the traditional flute. Sound is

the hand like a wand and spinning it, a process that uses the air entering the long cylinder through a pination of three m combination of three me-tallic washers stacked to-

Cardiac surgeon who performed India's first coronary bypass surgery passes away

India's pre-eminent car-diac surgeon K.M. Cherian, who performed India's first coronary bypass surgery, died in Bengaluru on Saturday. He was 82.

His son, Sanjay Cherian, shared a note that said, "It is with profound grief that I inform you all that my be-loved father, Dr. K.M. Cherian, passed away around II:55 p.m. last night [Janu-ary 25]. Dad and I had atary 25]. Dad and I had at-tended a wedding recep-tion in Bengaluru and as-we were leaving, he col-lapsed..." He also said that Dr. Cherian was rushed to Manipal Hospital where he was declared dead. The funeral will be held on Ja-muny 30.

and the line of the control of the c nuary 30. Only a couple of days ago was his autobiography,

in Kerala, Dr. Cherian worked for over 50 years in the field of cardiology, training under world-re-nowned leaders in the field. He was also credited with performing the first heart-lung transplant in In-dia, the second cardiac dia, the second cardiac transplant, and strangely, for a profession where pe-ople stick to their chosen specialisation, was also a pioneer in paediatric car-

diac surgery. He set up Frontier Lifeline Hospital Frontier Lifeline Hospital in Chennal and Frontier Mediville, a large medical science park on the out-skirts of the city, to help spur research into indige-nous cardiac valves and other technologies. During the book launch in Kerala, Dr. Cherian said

how he played the diplo-mat in the release of four Indian drivers who were imprisoned in Iraq. He went on to explain his as-sociation with Mother Teresa, upon whose request he performed a surgery on After having completed

Kasturba Medical College teach in Christian Medical College, Vellore, before heading out to the far shores of Australia and or the college of the colle teach in Christian Medical orary cardiac surgeon to the President and worked extensively with patients who came from foreign na-tions for treatment, and was awarded the Padma



Prime Minister Naren-dra Modi, in a post in X, said, "Pained by the pass-ing of Dr. K.M. Cherian, one of the most distin-guished doctors of our country. His contribution to cardiology will always be monumental, not only saving many lives but also mentoring doctors of the

future. His emphasis on technology and innovation always stood out. My thoughts are with his fami-ity and friends in this hour of grief."

Simple childhood In his autobiography, Dr. Cherian recalled his simple childhood, from walking ing marbles on the street with friends, and a love to don paint to participate in the tiger dance during Onam. He confessed to getting zero in mathematics in Class 5, but the school managed to give grace marks to all students as the exam was unusually tough. K.R. Balakrishnan.

chairman-cardiac sciences

and director of the Institue
of Heart and Lung Transplant and Mechanical Circultatory Sapport in MCM
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"He has travelled all over the world, planning for Madras Medical Mission (MMM). When I was working in Auckland in New

Zealand, he stayed with me almost a week, visiting hos-pitals. I was the first cardiac surgeon to work with him. This is before he be-came famous. He was in-strumental in me getting a fellowship in the United States. He was very gener-ous to young people who worked with him. His contributions to cardiac sur gery in India are legen-dary."

gery in India are legenAlit Mullsari, director
of cardiology at the Insticardiology at the Instiassociation with Dr. Cherian began in 1995 when he
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in I dalone centres will have no

ways one step ahead," Dr. Mullasari said, adding: "He put effort into research, which usually doesn't happen in a private centre. He lab work. He would push us to present in interna

World Health Organisation and chairperson of M.S. Swaminathan Research Foundation, in her post on to hear of Dr. KM Cherian's to hear of Dr. KM Cherian's passing. His memorir was just released and we had long conversations recently—about the future of invovation and health technovation and health technovation. nology development in India. Certainly a source of inspiration to many, apart from the countless lives he

THEROSSWORD+14392 The cast by 0r. x) (set by 0r. x) To solve this puzzle online, get across to our crossword site, and the puzzle online, get across to our crossword site, and the puzzle online, get across to our crossword site.

- SM (SM)

14 Student stands up to describe origin of oldest primates (7)

accusent stands up to describe origin of oldest primates (?)

Republican actually about to break a law (?)

Pouring rum for exclusive circle (?)

Device used for strangulation by degenerate found in pass.

(?)

21 Express disapproval, start to unpack short skirt (4) First-class chef's double com salad (6,4)

use a romantic dinner and dance? It'll rock (9) Eventually removing clothes altogether (2,3) Gulp with regret, so irritated about wife's fight for dominance (5,8)

Down Device measuring electric current in programme, terrific (7) Where one has a close shave as robber starts to plunder hous

- desperately (10) Singer at opera describing Greek muse (5) Motive in killing is sickening (9)
- Viewpoint of spiteful nationalist ignored (4) Short fictional work by star captivates the Spanish lecturer (7)
 Lose one's temper as party controlled by selfish European pulls
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- (9,5,42,3)

 13 Insulting ignorant rogue suppressing fine female (10)

 15 Posh models dancing close to Greek dramatist (9)

 18 Become implied in attempt to hire English cast (3.4)
- enything (4.3) 23 Check patient's butt bitten by animal (5) 24 Sheet of floating ice in stream, reportedly (4)

SUDOKU





FAITH

Greatness of Ramanuia

Sri Vedanta Desika, in his work "Yathiraja Sapthathi," venerates and commends the nobility of acharya Sri Ramanuja, the founder of Visishradavaita philosophy. Thirukkudandhai Dr. Venkatesh said in a discourse that Swamy ings of various acharyas (Guru Parampara). He begins with Lord Narayana, who revealed the Vedas to the world and formulated Agama Sastras to be followed to worship Him. That Lord is the first Guru. For any good work like the performance of homas and yagnas, a person must do the same with his spouse, and then only the ritual will be complete. Lord has taken a resolve to protect us, and in complete. Lord has taken a resolve to protect us, and in that yagns of dharma, His divine consort, Goddess Laksh-mi, remains always with Him. She comes next to the Lord. Then comes the chieftain of the celestials Vishwaksena. The Vedas have tried to reveal the qualities of God. The The Vedas have tried to reveal the qualities of God. The apostle Nammazhwar has given the essence of the Vedas apostle Nammazhwar has given the essence of the Vedas by understandable. Swamy Desika pays his obeisance to Nammazhwar. Then, the acharyas Nathamuni, Uyyalkondar, and Manakkal Nambi are revered. After Peria Nambi, Swamy Desika starts praising the great acharya Sri

Swamy Dessita starts praising the great acrarya Sir Ramanuja...

Ramanuja sat be central gem of the preceptor lineage, a priceless pendant.

Assam tea workers prone to post-TB fungal disease: study

Chronic pulmonary aspergillosis, or CPA, is a life-threatening infection that strikes individuals with immunodeficiency; an earlier study had flagged prevalence of epidemic dropsy in State's tea belt

<u>Rahul Karmakar</u>

GUWAHATI

wo years after a study flagged the epidemic dropsy threat, a new research paper has identified a lifethreatening fungal infection mostly in the damaged lungs of tuberculosis survivors among Assam's tea plantation workers.

TB has been a major public health issue across the tea belts in Assam's Brahmaputra and Barak valleys, afflicting 217 per 1,00,000 population according to the National TB Prevalence Survey of 2019-2021. The risk factors include poverty, poor nutrition, kitchen smoke, close contact with smear-positive patients, and living in congested environments.

A team of researchers from the Assam Medical College and Hospital in Dibrugarh has now put the focus on chronic pulmonary aspergillosis (CPA), an infection caused by Aspergillus fumigatus, a fungus that strikes individuals with immunodeficiency. CPA is a chronic lung disease that occurs commonly in pre-existing lung cavities. It mostly occurs in post-TB or active TB patients and shares similar clinical features with



Persistent problem: TB has been a major public health issue across the tea belts in Assam's Brahmaputra and Barak valleys. ANI

tuberculosis.

The study, the first of its kind among tea workers, was published in the journal *PLOS Neglected Tropical Diseases*. Its authors are Aishwarya Selvasekhar, Reema Nath, Gourangie Gogoi, and Pronami Borah.

The team examined 128 patients visiting three tea garden hospitals and two referral hospitals in Dibrugarh district, which has 177 of Assam's 803 major tea estates and a high TB burden. These patients - tea workers and their dependents from four tea estates experienced chronic cough, haemoptysis (coughing blood), weight loss or fatigue, and other respiratory symptoms for three months or more.

Using advanced serological testing and radiological imaging, the researchers recorded a CPA prevalence of 17.18% in the year-long study. CPA seropositivity was 18.5% in active TB patients but spiked to 48.9% in those who had completed treatment, underlining the fungal infection as a post-TB health issue.

Worse than Africa

The mean age of the patients was 41.9 and CPA was found to be more common in middle-age male workers (80 against 48 females).

According to the study, Assam's high CPA preva-

lence of 60 cases per 1,00,000 people exceeds the global average of 42. The scenario is worse than in African countries such as Nigeria and the Democratic Republic of Congo, where the prevalence ranges from 20 to 50. The researchers suggested testfor Aspergillus antibodies in patients who come with respiratory symptoms after completion of TB treatment to diagnose the cases early and treat them subsequently.

"This will help to decrease the morbidity and mortality due to this neglected and under-diagnosed disease in tea garden hospitals as well as other TB hospitals," they said. The researchers advised campaigns to train healthcare providers to recognise CPA symptoms and educate workers about respiratory health, nutrition, and hygiene.

In the context of nutrition, health experts pointed to a two-year-old study on epidemic dropsy published in the *Cureus Jour*nal of *Medical Science*.

Epidemic dropsy is caused by the consumption of edible oils contaminated with the oil from *Argemone mexicana*, a poppy of Mexican origin.

- . Overview of the Study (अध्ययन का अवलोकन)
- Research on chronic pulmonary aspergillosis (CPA) among tuberculosis survivors in Assam's tea belt.
- CPA is caused by the fungal infection Aspergillus fumigatus and primarily affects immunodeficient individuals.
- A study conducted in Assam's **Brahmaputra and Barak valleys** revealed **high TB prevalence**.

- V High TB Prevalence (उच्च टीबी प्रसार)
- 417 per 1,00,000 cases reported, exceeding global averages.
- Tea plantation workers are at higher risk due to poor nutrition, kitchen smoke, and congested living conditions.
- V Fungal Disease after TB (टीबी के बाद फंगल रोग)
- CPA was found in 17.18% of tea workers tested.
- CPA seropositivity was higher in those who had completed TB treatment (48.9%).

- 🗹 Comparison with Global Data (वैश्विक आंकड़ों की तुलना)
- Assam's CPA prevalence of 60 cases per 1,00,000 exceeds the global average of 42.
- Worse than Nigeria and the Democratic Republic of Congo (20-50 cases per 1,00,000).
- Demographic Findings (जनसांख्यिकीय निष्कर्ष)
- The mean age of affected patients was 41.9 years.
- Males more affected (80 cases vs. 48 in females).

- Geographical Aspects (भौगोलिक पहलू)
- (Region-Specific Factors (क्षेत्र विशेष कारक)
- Assam's humid and tropical climate supports fungal infections like Aspergillosis.
- Tea plantations in Brahmaputra and Barak valleys are densely populated, increasing disease transmission risk.
- Poor medical infrastructure in tea estates contributes to late diagnosis.

- Economic Aspects (आर्थिक पहलू)
- 🐻 Impact on Assam's Tea Industry (असम की चाय उद्योग पर प्रभाव)
- Assam's tea industry employs millions of workers, with health crises reducing productivity.
- Medical expenses for long-term diseases like CPA create financial burdens on low-income workers.
- Economic dependence on tea plantations means workers continue to work despite illness, worsening the disease spread.

- Recommendations (सिफारिशें)
- 🎓 Medical Testing & Screening (चिकित्सा परीक्षण और जांच)
- **Testing for Aspergillus antibodies** in post-TB patients with respiratory symptoms.
- Early diagnosis and treatment to reduce mortality and morbidity rates.
- 🎓 Public Health Measures (सार्वजनिक स्वास्थ्य उपाय)
- Awareness campaigns on **CPA and respiratory hygiene**.
- Nutritional interventions to improve immunity among workers.
- 🎓 Policy Changes (नीतिगत परिवर्तन)
- Integrating CPA into India's TB program.
- Strengthening healthcare in Assam's tea belt.
- 🎓 Workplace Health Reforms (कार्यस्थल स्वास्थ्य सुधार)
- Improving living conditions and reducing exposure to risk factors like kitchen smoke and poor sanitation.

Cardiac surgeon who performed India's first coronary bypass surgery passes away

The Hindu Bureau

CHENNAI

India's pre-eminent cardiac surgeon K.M. Cherian, who performed India's first coronary bypass surgery, died in Bengaluru on Saturday. He was 82.

His son, Sanjay Cherian, shared a note that said, "It is with profound grief that I inform you all that my beloved father, Dr. K.M. Cherian, passed away around 11:55 p.m. last night [January 25]. Dad and I had attended a wedding reception in Bengaluru and as we were leaving, he collapsed..." He also said that Dr. Cherian was rushed to Manipal Hospital where he was declared dead. The funeral will be held on January 30.

Only a couple of days ago was his autobiography, *Just an Instrument*, launched at the Kerala Literature Festival.

Born on March 8, 1942,

in Kerala, Dr. Cherian worked for over 50 years in the field of cardiology, training under world-renowned leaders in the field. He was also credited with performing the first heart-lung transplant in India, the second cardiac transplant, and strangely, for a profession where people stick to their chosen specialisation, was also a pioneer in paediatric cardiac surgery. He set up Frontier Lifeline Hospital in Chennai and Frontier Mediville, a large medical science park on the outskirts of the city, to help spur research into indigenous cardiac valves and other technologies.

During the book launch in Kerala, Dr. Cherian said each surgeon should consider the patient part of his own family. Some of the experiences he shared on the occasion include how he performed heart surgeries on 20 Iraqi children and how he played the diplomat in the release of four Indian drivers who were imprisoned in Iraq. He went on to explain his association with Mother Teresa, upon whose request he performed a surgery on a poor boy in Kolkata at minimal cost.

After having completed his medical education in Kasturba Medical College, Manipal, he went on to teach in Christian Medical College, Vellore, before heading out to the far shores of Australia and New Zealand to train further in cardiac surgery. He chose to come back to India to serve the people and the country. In the 50-plus years he served in the field, he also had a term as honorary cardiac surgeon to the President and worked extensively with patients who came from foreign nations for treatment, and was awarded the Padma Shri.



DR. K.M. CHERIAN (1942 - 2025)

Prime Minister Narendra Modi, in a post in X, said, "Pained by the passing of Dr. K.M. Cherian, one of the most distinguished doctors of our country. His contribution to cardiology will always be monumental, not only saving many lives but also mentoring doctors of the

future. His emphasis on technology and innovation always stood out. My thoughts are with his family and friends in this hour of grief."

Simple childhood

In his autobiography, Dr. Cherian recalled his simple childhood, from walking barefoot to school to playing marbles on the street with friends, and a love to don paint to participate in the tiger dance during Onam. He confessed to getting zero in mathematics in Class 5, but the school managed to give grace marks to all students as the exam was unusually tough.

Balakrishnan. chairman-cardiac sciences and director of the Institue of Heart and Lung Transplant and Mechanical Circulatory Support in MGM Healthcare, recalled coming to Chennai in November 1984 "fresh from training in Bombay". Dr. Cherian was a mentor, with whom he conducted experiments during his stint at the Railway Hospital. "We did exciting stuff at that time," he said.

"He has travelled all over the world, planning for Madras Medical Mission (MMM). When I was working in Auckland in New

Zealand, he stayed with me almost a week, visiting hospitals. I was the first cardiac surgeon to work with him. This is before he became famous. He was instrumental in me getting a fellowship in the United States. He was very generous to young people who worked with him. His contributions to cardiac surgery in India are legendary."

Ajit Mullasari, director of cardiology at the Institute of Cardio-vascular diseases at the MMM, said his association with Dr. Cherian began in 1995 when he joined the hospital.

"The first bypass sur-

gery, coronary artery bypass surgery, the heart transplantation in the private sector, a lot of paediatric surgeries were pioneering efforts in this country. He had a great vision of the future," he said. Dr. Cherian "believed standalone centres will have no dilution of cardiac care. Subsequently a lot of people followed. But he was always one step ahead," Dr. Mullasari said, adding: "He put effort into research, which usually doesn't happen in a private centre. He was pushing you to research, be it stem cell or lab work. He would push us to write and encourage us to present in international congresses."

Sowmya Swaminathan, former chief scientist of World Health Organisation and chairperson of M.S. Swaminathan Research Foundation, in her post on X, said, "Deeply saddened to hear of Dr. KM Cherian's passing. His memoir was just released and we had long conversations recently - about the future of innovation and health technology development in India. Certainly a source of inspiration to many, apart from the countless lives he saved! RIP."

- Introduction (परिचय)
- Dr. K.M. Cherian, India's pioneer cardiac surgeon, passed away at age 82.
- Performed India's first coronary bypass surgery and was a Padma Shri awardee.
- Founder of **Frontier Lifeline Hospital** in Chennai, known for innovations in **indigenous cardiac valves**.

- Contributions to Medicine (चिकित्सा में योगदान)
- 🔽 Key Achievements (प्रमुख उपलब्धियाँ)
- Performed India's first heart-lung transplant.
- Conducted second cardiac transplant in India.
- Pioneered pediatric cardiac surgery.
- 🗹 Training & Experience (प्रशिक्षण और अनुभव)
- Studied at Kasturba Medical College, Manipal.
- Trained in Australia and New Zealand before returning to India.
- Served as honorary cardiac surgeon to the President of India.

- Evolution of Cardiac Surgery in India (भारत में हृदय शल्य चिकित्सा का विकास)
- In the 1980s, cardiac surgery was still developing in India.
- Dr. Cherian was instrumental in bringing advanced techniques from abroad.
- His work paved the way for future heart transplants and pediatric surgeries in India.

- Affordable Cardiac Care (सस्ती हृदय चिकित्सा)
- Promoted cost-effective heart surgery in India.
- Helped reduce dependence on **imported heart valves** by developing indigenous alternatives.
- His work contributed to India becoming a hub for cardiac surgery tourism.

- **Dr. Ajit Mullasari**: "He led the first coronary bypass and heart transplant in the private sector."
 - ♦ Sowmya Swaminathan (WHO Scientist): "His memoir was released just before his passing, discussing future medical innovations."

Indian space programme breaks into 2025 in 'mission mode'

The PSLV-C60 mission laid the foundations for Chandrayaan-4 and the Bharatiya Antariksh Station, Forthcoming test flights will move India closer to human spaceflight, soon to receive a helping hand from a third launch pad at Sriharikota, continuing work on NGLV, and a change of guard at ISRO

INDIA IN SPACE

Pradeep Mohandas

ust as 2024 was the year India developed a vision for its space programme, 2025 is likely on mode. The PSLV-660 mission, underway as the year began, laid the foundations for Chandrayaan-4 and the libaratiya

Antarikah Station.
Forthcoming rest flights will move India closer to human spaceflight, soon to receive a helping hand from a third launch pad approved for construction at Sifharikota, continuing work on the Next-Generation Launch Vehicle (NGLV), and a change of guard at ISRO.

SpaDeX, a team effort

On December 30, 2024, the PSLV-C60 mission lifted off from the Satish Dhawan Space Center (SDSC) in Sriharikota, Abour Space Center (SDSC) in Sribarikota. About IS minutes after liftoff, the rocket delivered the Space Docking Experiment (Spathe's satelline at slightly different and the satelline at slightly different at the satelline at slightly different and the satelline at slightly different at the satelline at slightly different at the satelline at the satelline cannot be satelline satelline centre director of the UR Rao Satelline Centre

(URSC), said this was to allow the satellite to power up their solar cells. Indian private company Kepler

Aerospace provided ground station-as-a-service support for the mission alongside ISRO. It was able to simultaneously command the two SpaDeX satellites and provided comprehensive mission support in under a month?

where a month."

Swiss space situational awareness company s2a systems also shared details of the distance between the two astellites of the distance between the two astellites conditions, i.e., 10-20 km, on January 2, 2025, and started moving closer on the started moving closer on the second conditions, i.e., 10-20 km, on January 2, 2025, and started moving closer on the second conditions of the second conditions of

between the satellites was greater than expected. So it re-increased the eparation to 6-8 km on January 9 and

On January 10, the satellites were put on 'hold' mode to maintain an inter-satellite distance of 1.5 km then noved closer together on January II and held at 230 m. On January I2, the held' at 230 m. On January 12, the inter-satellite distance was reduced inter-sate was reduced in the same at the

docking attempt was launched. They came within 2.6 km of each other on January 13 and to 900 m on January 15

Finally, on January 16, ISRO issued a statement saying the two satellites had successfully docked and stabilised themselves in orbit. ISRO thus made history by completing its first in-orbit rendezvous and docking. Later that day both satellites were controlled together both satellites were controlled together from one of them, a feat necessary for lunar and space-station docking. ISRO said the next steps involved transferring power from one satellite to the other and, later, undocking.

POEM4, the orbital testbed After the PSLV-C60 mission deployed the SpaDeX satellites, the rocket's fourth stage was moved to a 350-km circular orbit and had its fuel dumped (a process called passivation, done so that the fuel doesn't explode and create a debris field) In this form, it was ready for the PSLV Orbital Experimental Module (POEM4) phase of its mission, when the fourth stage was to orbit the earth like a satellite It carried 24 payloads: 14 from ISRO and 10 from academia and private industry. ISRO's Relocatable Robotic

Manipulator-Technology Demonstr-tested its movement and relocation capability by moving from one part of POEM4 to another. The Debris Capture POEM4 to another. The Debris Capture Robotic Arm Manipulator also moved its arm, but ISRO warn't clear about of bethe the property of the property of the property tethered to the payload. The Compact Research Module for Orbital Plant Studies The Compact of the Property of the Property orbit and studied the leaves. On December 31, 2024, Manastu Space's Vyon ZU payload fred its green



SRO launches the PSLV-C60 from the Satish Dhawan Space Centre in Sriharikota on December 30, 2024. AFF

propulsion system for 30 seconds, tilting the POEM4 stage by 24°. The system used the company's proprietary green fuel MS289. Manastu fired the system once

MS289. Manastu fired the system once again on January 13, this time having POEM4 perform a somersault with an assimilarly, Bellatrix Aerospace fired its RUPBA payload for 60 seconds to impart attention of the payload for 60 seconds of the turn POEM4 around by 80.00 N Space Tech's payload, SwetchaSATVO, established not station

communications with its ground station. The payload, designed and built in-house, tested communications in the UHF to Ku

bands.
The SJC Institute of Technology and the Upagraha Amateur Radio Club at URSC said they had successfully received data from BGS-ARPIT, their jointly-developed amateur radio messaging payload. Many amateur radio operators also shared images received from BGS-ARPIT on

The Spacecraft

Deployed View

craft in its deployed and stowed configurations, ISRG

Aditya-L1 is India's first space-based observatory to study the sun. This artist's impression shows the

images received from BGS-ARPIT on amateur radio mailing lists. GalaxEye also announced the successful performance of its payload, GLX-SQ. The company said it had

achieved all mission objectives, including

achieved all mission objectives, including using GLX-SQ to create a synthetic-aperture radar (SAR) image. Takefwel-Space successfully conducted to payload. An artificial intelligence unit, it uploaded "large models from the ground station, [executed] external code on the astellite, and [downlinked] the ... results." The company said it faced "a critical factor of the company said it faced a critical factor. Annive University said its Anniv Plant

Amity University said its Amity Plant Experimental Module in Space (APEMS) yielded positive results in its attempt to grow a plant in controlled conditions

While the SpaDeX and POEM4 missions were being executed in space, V. Narayanan took over from Somanath as

ISRO chairman on January 14. Narayanan was director of the Liquid Narayanan was director of the Liquid Propulsion Systems Center, Thiruvananthapuram, and led work on the cryogenic and semi-cryogenic engines. He also chaired a committee to examine the failure of the Chandrayaan-2

On January 16 the two satellites Later both satellites were controlled together from one of them, a feat necessary for lunar and space-station docking. transferring power from one to the other and undocking

Aboard Transporter 12

Three Indian companies flew their payloads onboard SpaceX's Transporter 12 mission on January 15. They were part of another 131 payloads that the Falcon 9 worker delibers. rocket delivered to orbit.

First, Pixxel Space's three Firefly hyperspectral satellites became the first rivate Indian satellite constellation; three more are to fly in the future. The more are to fly in the future. The company announced on social media that all three satellites had deployed their solar arrays and had started generating power, were stabilised, and had established two-way communication

situational awareness and to augment its ground capabilities. The company said the satellite was generating solar power and had stabilised. The satellite will now move to its convenience in the satellite will now move to its commissioning phase to prepare for its mission: to precisely track Third, XDLINX Labs' Elevation 1

miniaturised communications satellite, built for US-based Almagest Space Corporation on its XDSATNS platform, was assembled, integrated, and tested by Ananth Technologies. The satellite has a small E-band satellite communications payload that sent a "hello from space' message to mark the start of its mission

Space tech and science
The Union cabinet approved the
construction of a third launch pad at
SDSC at a cost of ₹3984.86 crore. It's

SDSC at a cost of ₹3984.86 crore. It's expected to be built by 2020, to serve as a das expected to be built by 2020, to serve as a das support for human spaceflight facilities and ISRO'S NGLV.

BSRO also successfur to the state of the serve as a das successfur to the serve for the serve as a serv 60 seconds, shut off for L20 seconds, and fired again for seven seconds. ISRO has more tests planned abead of certifying the fired pain for the planned second seco



about one metre tall, with a long tail, and weighed up to 30 kilograms, were found in Zimbabwe in 2019. APP

Where did dinosaurs first evolve?

Dinosaurs long dominated the earth's land ecosystems with multiple forms, including plant-eating giants like Argentinosaurus, meat-eating brutes like Evrannosaurus, and weindos like

Tyramosaurus, and weirdos like Therizinosaurus, with its Wolverine-like claws. But the origin of dinosaurs – precisely when and where they first.

Researchers are now proposing a surprising location for the birthplace of dinosaurs, based on the locations of the currently oldest-known dinosaur fossils, the evolutionary elasticuships along geography during the Triassic Period. This locale spans the modern-day Sahara desert and Amazon rainforest regions, now separated by thousands of the process called plate tectonics.

geological process called plate tectonics.
"When dinosaurs first appear in the
fossil record, all the earth's continents were part of the giant supercontinent Pangaea. Dinosaurs emerged in the southern portion of this landmass, known as Gondwana " said loel Heath, a

as Gondwana," said Joel Heath, a palaeontology doctoral student at University College London and the control of the said of the control of the said with the control of the study, published on Thursday in the journal Current Biology. "Our research auggests they likely originated in the low-latitude regions of the control of the control

Research suggests dinosaurs likely originated in low-latitude regions of Gondwana near the equator, an area that today

from Argentina, Saturnalia from southern Brazil, and Mbiresaurus from Zimbabwe. While sharing certain traits defining them as dinosaurs, they had sufficient differences that suggest millions of years of dinosaur evolution had already

occurred.

"While earlier research has focused on southern South America and southern Africa as the area of origin of the dinosaurs, based on where their fossils first appear, we suggest that significant gaps in the fossil record, particularly in regions that today include the Sahara sert and the Amazon rainforest, ma hold the potential to reveal where the earliest dinosaurs were living," Heath

The researchers said dinosaurs

The researchers said dinosaurs probably emerged approximately 245-230 million years ago, when these equatorial researchers are researched by a result of the researched research

rossus from this time and region are rare. This might be because the conditions were not ideal for preserving the remains of land animals or because the rocks containing these fossils haven't been discovered yet, Heath said. The Amazon and the Sahara also are

difficult for palaeontologists to explore due to the logistical challenges. Dinosaurs evolved from more primitive reptiles after the earth's biggest mass-extinction event caused by ex volcanism at the end of the Permiar Period, about 252 million years ago sed by extreme

For feedback and suggestions



- Introduction (परिचय)
- India's **space programme enters mission mode** in 2025 with key advancements.
- PSLV-C60 laid the foundation for Chandrayaan-4 and Bharatiya Antariksh Station.
- Human spaceflight tests, a third launch pad at Sriharikota, and Next-Gen Launch Vehicle (NGLV) are key focus areas.

- Key Missions & Achievements (मुख्य मिशन और उपलब्धियाँ)
- V PSLV-C60 Launch (PSLV-C60 प्रक्षेपण)
- Launched from Satish Dhawan Space Centre on December 30, 2024.
- Delivered Space Docking Experiment (SpaDeX) into orbit.
- SpaDeX successfully docked and stabilized two satellites, a key step for future space station missions.

Orbital Test: POEM-4 (कक्षा परीक्षण: POEM-4)

Carried 24 payloads from ISRO and international agencies.

Included robotic arm and debris capture technology.

Successfully demonstrated **orbital docking** and maneuvering

- SpaceX Collaboration (स्पेसएक्स सहयोग)
- Indian companies sent payloads on SpaceX's Transporter-12 mission.
- Pixxel deployed its **first hyperspectral satellite constellation**.
- Digantara launched Space Camera for Object Tracking.
- 🗹 Aditya-L1 & Lunar Research (आदित्य-एल1 और चंद्र अनुसंधान)
- First data from Aditya-L1 mission was received.
- Chandrayaan-4 mission plans under review.

Future Plans (भविष्य की योजनाएँ)



🙎 Upcoming Missions (आगामी मिशन)

Gaganyaan human spaceflight test in 2025.

Chandrayaan-4: Lunar sample return mission.

Bharatiya Antariksh Station development.

India's participation in global space exploration projects.

TOO GOOD

Sinner is the best player in the



It hurts to be standing next to this thing (trophy) and not being able to touch it," said Alexander Zverev after losing the final. "But. congratulations to Jannik. You're the best player in the world by far. Zverev has lost 13 times to a top-five opponent at a Slam, with his only win coming against Carlos Alcaraz in Melbourne last year

Siniakova clinches 10th Grand Slam women's doubles crown



Slam women's doubles title on Sunday when she and American partner Taylor Townsend clinched the Australian Open crown. The top seeds and reigning Wimbledon champions downed Chinese Taipei's Hsieh Su-wei and Latvian Jelena Ostapenko 6-2, 6-7(4), 6-3.

Tilak sets world record during knock against England



England in the second T20I in Chennai. The 22-year-old has scored 31B runs in T20Is without being dismissed and went past New Zealand batter Mark Chapman's record of 271 runs between

ON A ROLL

India cruises past Bangladesh, continues merry run in U-19 WC



en's U-19 World Cup with an eight-wicket win over Bangladesi in its Super Six encounter in Kuala Lumpur on Sunday.

The scores: Bangladesh 64/8 in 20 overs (Vaishnavi Sharma 3/15)

City downs Chelsea MANCHESTER: Erling Haaland inspired a

Manchester City fightback from 0-1 down to beat Chelsea 3-1 and move into

Chelsea 3-1 and move into the Premier League top four at the Blues' expense on Saturday.

Top results: Premier League: Top results: Premier League: Manchester (6); | (Guardiol 42, Hasiand 68, Foden 87) bt Chelsea | (Madueles 50, Crystal Palaca | (M

LaLigac Sevilla 1 (Bade 61) drew with Espanyol 1 (Kumbulla 15); Valladolid 0 lost to Real Madrid 3 (Mbappe 30, 57, 90+1-pen); Rayo Vallecano 2 (Nteka 80, 83) bt. Girona 1 (Gil 58).

Serie A: Napoli 2 (Anguissa 57, Lukaku 69-pen) bt Juventus 1 (Kolo Muani 43); Udinese 1 (Lucci 36) lost to Roma 2 (Pellegrini 50-pen, Dovbyk 65-pen).

Gukesh takes joint lead WIJK AAN ZEE: D. Gukesh moved into joint lead at the Tata Steel Masters, outplaying his World championship second P. Harikrishna in the seventh

round. It was Gukesh's third win and put him on course for his maiden title here as he shared the lead with R. Praggnanandl and Nodirbek

and Nodirbek
Abdusattorov (five points).
Top results: D. Gukesh (Ind., 5) bt
P. Harikrishna (3.5); Wei VI (Chn,
3.5) drew with Leon Luke
Mendonca (Ind, 1.5); Max Warmerdam (Ned. 3.5) bt Ariun Warmerdam (Ned, 3.5) of Arjun Erigais (Ind, 1.5); Jorden van Foreest (Ned, 2.5) drew with R. Praggnanandhaa (Ind, 5); Anish Giri (Ned, 3) drew with Nodirbek Abdusattorov (Uzb, 5).

Challengers: R. Vaishali (Ind, 4) drew with Benjamin Bok (Ned, 4)

Ice-cool Sinner towers over Zverev, retains title

The World No. 1 becomes the first Italian — man or woman — to win three Grand Slams; Zverev's long wait for a maiden Major continues, falling short once again in his third big final

AUSTRALIAN OPEN

Agence France-Presse

clinical Jannik Sin clinical Jannik Sin-ner swept past Alexander Zverev to retain his Australian Open title on Sunday and cement his status as the world's dominant player in men's tennis

world's dominant player in men's tennis.

The 23-year-old Italian came through a tense final between the two highest-ranked players 6-3, 7-6(4), 6-3 on Rod Lawer Arena, raising his arms in the air and looking to the sky in celebration.

celebration.
In doing so he became the first Italian, man or woman, to win three Grand Slams, surpassing Nicola

"We worked a lot to be again in this position. It's an amazing feeling to share this moment with all of you," Sinner said, referring to his coaching team. He also had words of

ΛΟ The first man to successfully def his maiden Mak 2006 French Oper

In ellic company
The emphatic victory also
thrust him alongside
Andre Agassi, Roger Federer and Novak Djokovic an
Park titles their Melbourne
Park titles this century.
Experiment of the
ery for Germany's Zwerev,
who remains one of the
to taste Grand Slam glory,
falling short once again in
his third big final.

Sky-rocketing success This one was joy. We managed to do something incredible this time, because the situation I was in

3 Only the third active player (after Alcaraz an Wawrinka) to triump The fifth man to win three straight hard court Majors.

consolation for Zverev.
"A tough day for you.
You're an amazing player. Keep believing in yourself because I think we, all the players, and the coaches, whoever is involved in the sport, know how strong you are, not only as a player, but also as a person.

person.
"So keep it up. Keep working hard because we all believe that you can lift one of these very, very soon."

Ice-cool Sinner proved to be a tower of mental strength again in Australia, with his defence coming against the backdrop of an ongoing doping case after he twice tested positive for traces of the steroid closte-bol last year.

Behind the scenes Behind the scenes Hanging over his head has been a World Anti-Doping Agency appeal against his exoneration, with the glo-bal body seeking a long

doping.
A hearing is scheduled at the Court of Arbitration for Sport (CAS) for April. He cast all the worrie aside to notch a 19th career title and extend his incred ible winning streak to 21

Last year Sinner needed five sets to tame Daniil Medvedev and win his first Grand Slam, but it never

targeting England's best

Tilak's modus operandi —



S. Dipak Ragav

In cricket, transitions from one era to another are of-ten tricky and involve a phase during which the new crop takes time to

grow.

India, though, has been lucky in that regard in T20 cricket. The youngsters have found their feet and comfortably filled the comfortably filled the shoes left by Rohit Sharma,

shoes left by Rohit Sharma, Virat Kohili, and Ravindra Jadeja, all of whom exited the scene after winning last year's World Cup. Tilak Varma is one such player from the next-gen who has made a telling impact in a short time at the ucial No. 3 spot. His last four scores in

T20Is reads as 107 not out, 120 not out, 19 not out and 72 not out.

The most recent one, which came against En-gland on Saturday here at the M.A. Chidambaram Stadium, could be one of the best knocks he has played in his brief career so far.

Tilak showed bravery in Tilak showed bravery in taking on England's pace spearhead, Jofra Archer, and did so with conviction by making the requisite technical adjustments. "If you see, I want to tar-get their best bowlers," said

get their best nowiers, said Tilak. "If you take on their best bowlers, the others will be under pressure. So, even when the wickets were falling, I wanted to do that as it is easier for the (batter) at the other end."

(batter) at the other end."

"I backed myself and took chances against him. Whatever shots I have scored for Archer, I have worked in the nets. Mentally, I was ready for that. So, it has given me a good re-

sult," he explained.

The left-handed batter smashed Archer for 30 runs, including four sixes, off just nine balls.

On a day when the pull

shot proved to be the undo-ing of batters from both sides because the ball held off the surface, Tilak gave insights into how he exe-cuted it so well and was the most assured batter out in

the park.
"They were consistently bowling short, and Archer and (Mark) Wood were bowling 150kph, I think. With that pace, I think it will be slightly tougher if you want to hit it square of the wicket. So, I wanted to use the pace and hit it be-hind (fine) as much. That's what I have done, and it has

what i have done, and it has given me success." Another striking aspect of his innings was how seamlessly he switched gears, attacking when needed but also being cir-cumspect at times.

can score at over 10 (an ov-er) and below that also. When the team requires, you should be flexible," said the Hyderabad-born

"During the drinks break, he said that 'this is break, he said that 'this is the time you can show peo-ple you can play both (ways)'. I said whatever happens, I will stay till the end and finish the game."

Rutuja ensures Odisha Warriors gets its name engraved on glitzy trophy

Santadeep Dey

The 5,000-seater Marang Gomke Jaipal Singh Stadi-tum here was packed to the rafters on Sunday to wit-ness history unfold as Od-isha Warriors took on JSW Soorma Hockey Club in the summit clash of the inaug-ural season of the only commercial women's hockey league in the

The teams didn't disap-point, trading blows in equal measure, but it was equal measure, but it was eventually Rutuja Pisal who ensured Warriors got their name engraved on the glitzy Women's Hockey

the glitzy Women's Hockey India League trophy with a thrilling 2-1 win. Neha Goyal, the win-ning captain, was the first to find an opening through the left, linking up with Freeke Moes at the base-



denied by Soorma's

Soorma's Charlotte En-Soorma's Charlotte En-glebert spent five minutes of the first quarter on the naughty step after Clatter-tic Chaudhary, looking to take advantage, hovered atop the dotted line but wasn't able to test Savita Punia. He 13th minute, Neha was in the thick of things

Freeke Moes at the base-line.

However, the latter was

However, the latter was Soorma made a meal out of the first penalty corner, but when the second op-

baton to Rutuja, Maria Verschoor had to jump into ac-tion on that occasion to keep the ball out.

keep the ball out.
However, Rutuja couldn't be warded off for long. Sauze's lightning-quick swipe found a lucky deflection off Vaishnavi Phalke's stick before the 22-year-old lobbed it over Swire. Savita.

As the trend this season,

portunity came about, Per ny Squib stepped up to the plate with an angry drive.

Jude Menezes' girls stepped on the gas in the second half, threatening to take the lead on a couple of occasions. But instead it was Rutuja who broke the deadlock when Englebert

(Rutuja 20 & 56) bt JSW Soorma Hockey Club 1 (Squibb 28).

Manush proves too strong for Payas; Diva stuns Sreeja to emerge champion

Amol Karhadkar SURAT

IANNIK SINNER

Mamush Shah and Diya Chi-tale joined the elite list of men's and women's na-tional champions after out-classing Payas Jain and top seed Sreeja Akula in the singles finals of the 86th se-nior table tennis cham-pionship, which conclud-ed at the Pandit Dindayal Upadhyay Indoor Stadium padhyay Indoor Stadiun

n Sunday. Manush, the bespecta cled southpaw who hails from Vadodara – not too

from Vadodara – not too far from the diamond city, ployer Reserve Rank of In-dia (RED) – continued his dia (RED) – continued his expansion of the control of the Payas in five games in the best-of-seven final. Man-An hour earlier, Man-ing REI, bounced back af-ter trailing 2-0 against hot top-ranked international paddler – and won a thrill-ing women's final that



turned out to be the longest match of the final day's proceedings.

The singles win meant
Diya finished the tournament with a double crown,

ment with a double crown, having clinched the dou-bles crown on Saturday. Both Manush and Diya took home a kitty of ₹3.20 lakh each. But more than the purse, it was the glitter-ing troubly that the duo

national champions their formative years, both the stylish paddlers were ecstatic to have laid their hands on the trophy that they had their eyes on for a decade.

bles crown on Saturday.

Both Manush and type

Both Manush and type

Both Manush continued from

Manush continued

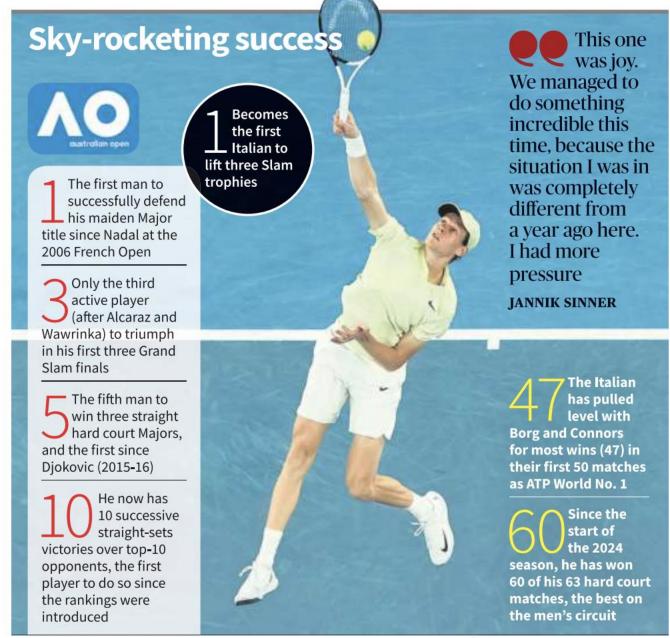
angles to precision. Diya, on the other hand, changed her gameplan midway through the match and started using her back-hand topspin more effec-tively to put Sreeja under pressure.

The results: Men: Final:

3-Manush Shah (RBI) bt 8-Payas Jain (Del) 10-12, 11-6, 11-6, 12-10, 11-8, Semifinals: Payas bt Disyansh Srivastava (UP) 11-9, 11-8, 11-8, 11-7; Manush bt 13-11, 11-4, 11-9, 12-10,

Women: Final: 7-Diya Chitale (RBI) bt 1-Sreeja Akula (RBI) 10-12, 8-11, 13-11, 12-10, 11-8, 9-11, 11-9, Semifinals: Sreeja b 11-5, 8-11, 11-9, 11-9, 11-9; Diya bt Syndrela Das (Ben) 11-8, 11-8,

Mixed doubles: Final: Akash Pal Mixed doubles: Final: Akash Pai & Poymantee Baisya (HSPB) bit Jash Modi & Taneesha Kotcha (Mah) 11-5, 11-6, 11-6 Semifinals: Akash & Poymantee bt Payes Jain (Del & Suhans Saini (Har) 11-7, 14-12, 7-11, 11-2; Jash & Taneesh bit Abhishek Yadav (Bol) & Aarti Chaudhary (UP) 11-2, 9-11, 13-11, 11-9.



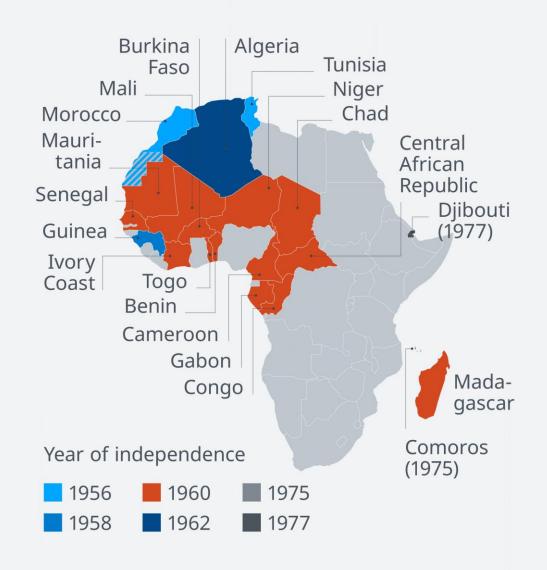
France colonization Africa

 West African countries are moving away from traditional colonial ties with France, seeking partnerships with global powers for security and economic cooperation.



Former French colonies in Africa

by year of independence





How France Colonized Africa?

- **1. Early Ventures (1830)**: France began its colonization with the capture of **Algiers** in 1830, marking the expansion of French influence in North Africa.
- 2. <u>Expansion in West Africa</u>: Territories such as **Gambia**, Ivory Coast, and Senegal were brought under French control.
- 3. <u>Berlin Conference (1884-85)</u>: France formalized its territorial claims, acquiring vast regions in **North**, **West**, and **Central Africa**.
- **4. <u>Direct Rule</u>**: France imposed a centralized administrative system modelled on European governance, weakening traditional power structures in African colonies.
- **5.** <u>Economic Exploitation</u>: Extensive use of forced labour and resource extraction, especially in **gold**, **cocoa**, **groundnuts**, **and timber**, ensured that colonies served as economic hubs for France

Consequences of French Colonization:

Economic:

- Resource Extraction: African resources were exported to France, leaving minimal local development.
- Monoculture Economies: Colonies were forced to rely on single crops like groundnuts (Senegal) and cocoa (Ghana).
- <u>Taxation:</u> Harsh fiscal policies drained local economies, exacerbating poverty.

3. Political

- Artificial Borders: Arbitrary boundaries drawn by colonial powers created ethnic divisions, fuelling post-independence conflicts.
- Exploitation of Labor: Forced labour systems led to mass displacements and population decline in many regions.



<u>Independence</u>

Movements: Countries like Senegal, Algeria, and Guinea gained independence through negotiation or conflict.



Continued Influence: Despite granting independence, France maintained strong economic and political ties through the Françafrique system, ensuring African nations remained reliant on France.

• Present Role of France in Africa:

1. Military:

- <u>Troop Presence</u>: French troops were stationed in **Chad, Senegal, and Ivory Coast**, aiming to combat insurgencies.
- <u>Recent Withdrawals</u>: Anti-French sentiments and failures in addressing regional terrorism led to troop withdrawals from several nations.

2. Economic:

• Economic Dependence: Many African countries still trade heavily with France. However, competition from China's Belt and Road Initiative and Russia's military alliances is reducing French dominance.



3. Declining Influence:

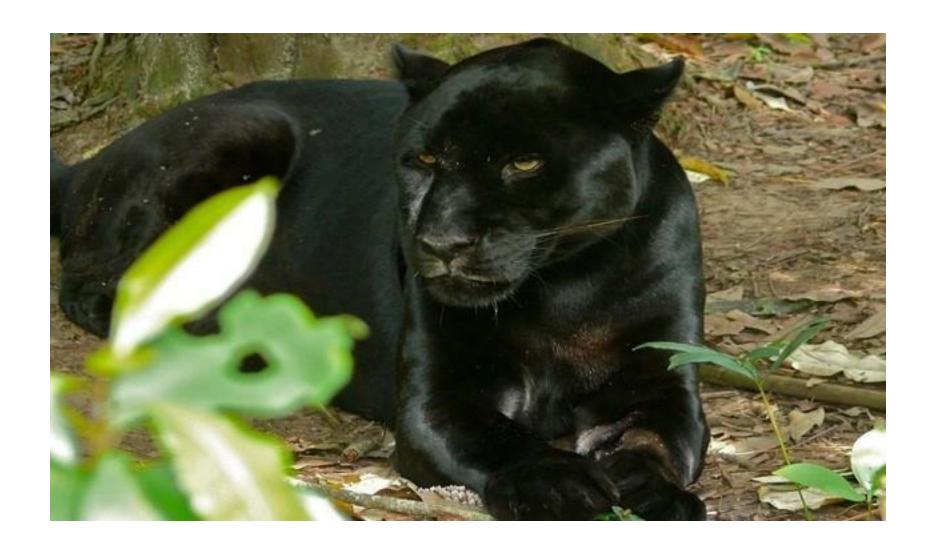
- Shift in Alliances: African nations are partnering with global powers like Russia and China, moving away from colonial ties.
- Françafrique in Crisis: The model of dependency is being rejected as nations demand sovereignty and equitable partnerships.

Black Panther



 Indian Forest Service (IFS) officer recently shared a video of a rare black panther strolling is lush greenery of north Bengal







What is a Black Panther?

• The **black panther**, a colloquial term for melanistic (dark-colored) large felines in the genus *Panthera*, is known for its striking black fur and mysterious allure.

•

Habitat:

- Found across three continents: Asia, Africa, and the Americas.
- Commonly inhabit dense tropical rainforests, grasslands, and mountainous regions.
- Global Range: Southwest China, Southern India, Nepal, Malaysia, Indonesia, Burma.
- Indian Range: Found in Kabini Forest (Karnataka), Nagarhole National Park, Periyar Wildlife Sanctuary, Silent Valley, and Sundarbans.

Characteristics:

- <u>Physical Features:</u> Glossy black or dark brown fur with faint spotted patterns visible in sunlight.
 - **Eyes**: Striking emerald green, giving a fierce and elegant look even in darkness.

• Behavioural Traits:

- Solitary and territorial hunters.
- Known for exceptional intelligence, sharp eyesight, and strong sense of smell.
- Males are **polygamous** in nature.

• Conservation Status:

- **IUCN Red List:** Vulnerable.
- **CITES:** Appendix I (strictly regulated trade).
- Indian Wildlife (Protection) Act, 1972: Schedule I (maximum protection).
- Threats: Habitat loss, poaching, and declining prey populations.

Sachetisation Plan

• The Securities and Exchange Board of India (SEBI) is introducing a sachetisation plan to enable small-ticket systematic investment plans (SIPs) starting at ₹250 per month.

Need for Sachetisation:

- <u>Financial Inclusion:</u> Targets underserved, low-income groups to enable investment in mutual funds.
- Addressing Barriers: Overcomes the high entry costs of traditional mutual fund SIPs.
- Market Deepening: Expands the retail investor base in equity markets, stabilizing market flows against foreign investor volatility.

• How it works:

- Minimum SIP Amount: ₹250/month (targeted at new mutual fund investors).
- Eligibility Criteria:
 - Available for new investors only.
 - Maximum of three ₹250 SIPs per investor across asset management companies (AMCs).



- As per the Indo European Business Forum (IEBF), India needs to 'immediately' recognise sunrise industries such as e-sports, gaming and music, and develop world-class infrastructure to tap the potential of the Indian youth.
- About
- One-fifth of India's incremental GDP growth is expected to come from gaming and esports.
- States such as Maharashtra, Uttar Pradesh and Andhra Pradesh look to double their GDP in next few years.
 - 20% of this incremental growth will come from the digital economy.



• Sunrise Sectors of India: Electronics and Semiconductors, Electric Vehicles (EV), Renewable Energy, Pharmaceuticals, Agro and Food Processing (A&FP) etc.

Kodaikanal Solar Observatory



To commemorate the 125th anniversary year
of the Kodaikanal Solar Observatory,
the Indian Institute of Astrophysics
(IIA), organized the conference on 'Sun,
Space Weather, and Solar-Stellar
Connections'.

- About
- Establishment: The Kodaikanal Solar Observatory (KSO) was established on 1 April 1899.
- Location: It is situated near Kodaikanal,
 Tamil Nadu, on the southern tip of the Palani Hills.



The Kodaikanal Tower Tunnel Telescope: It features a 3-mirror

Coelostat system comprising:

Primary mirror (M1): Tracks the Sun,

Secondary mirror (M2): Redirects sunlight

downward,

Tertiary mirror (M3): Aligns the beam

horizontally for solar observation.



Discovery of the Evershed Effect (1909): KSO first detected the effect, which is the radial outflow of gas from sunspots, marking a major contribution to solar physics.

ISRO's 100th Launch: GSLV-F15 NVS-02

In its 100th launch, the Indian Space Research Organisation (ISRO) is set to send off the NVS-02 satellite aboard the GSLV-F15 mission.

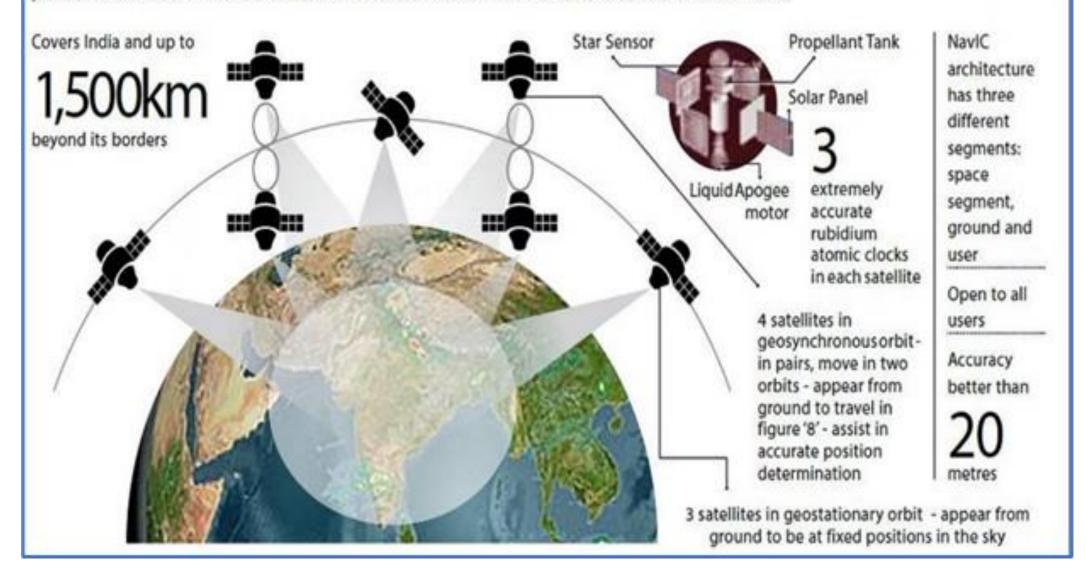
NVS-02 Satellite

It is the latest addition to the NavIC constellation with advanced features that aim to enhance the system's accuracy and reliability. Key features of NVS-02 include:

- Advanced Navigation Payload: Operating in three frequency bands—L1, L5, and S— to ensure high positional accuracy.
- Rubidium Atomic Frequency Standard (RAFS): A precise atomic clock that ensures
 accurate timekeeping, a critical component for navigation services.
- The satellite will serve applications such as navigation, precision agriculture, emergency response, fleet management, and mobile device location services.

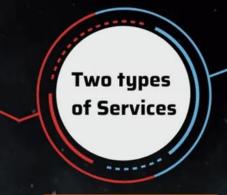
The seven sisters in space

TheNAVICorNavigationIndianConstellationisanindependentregionalnavigationsatellitesystemwhichworksthroughseveneyesinthesky.ltisdesignedtoprovide position information in India and 1500 km around the Indian mainland. Here's a look at how it works



macpenaem, statia giorie navigation satemie system acvelopea by isko.

Standard
Positioning
Service (SPS):
Provided to all the



- Has a position accuracy of better than 20 m.
- Applications: Navigation, disaster management, precise timing, mapping, etc.



Navigation Systems of the World

GLONASS (Russia)

GPS (U.S.)

users

4 Global Navigation Systems Galileo (European Union)

BeiDou (China)

2 Regional Navigation Systems:

- NavIC (India)
- QZSS (Japan)



Restricted Service (RS):

Encrypted service provided only to the authorised users (like the military)

 Each of NavIC satellites have three rubidium clocks.

Rubidium (Rb) clocks are type of atomic clocks. Rubidium clocks are smaller and less costly but slightly less accurate than cesium clocks.



4 Satellites

are in inclined (29° to the equatorial plane)

Geosynchronous Orbit (GSO)

Word of the day

Fastidious:

giving careful attention to detail; hard to please

Synonyms: Perfectionist, critical, particular

Usage: She is very fastidious about keeping her room clean.

Pronunciation: newsth.live/fastidiouspro

International Phonetic Alphabet: /fæstɪdiəs/

- How many total Padma Awards were given in 2025?
- 2025 में कुल कितने पद्म पुरस्कार दिए गए?
- A. 120
 - B. 130
 - C. 139
 - D. 150

- Who among the following received the Padma Vibhushan award posthumously in 2025?
- निम्नलिखित में से किसे 2025 में मरणोपरांत पद्म विभूषण प्रस्कार दिया गया?
- A. J.S. Khehar / जे.एस. खेहर
 - B. Osamu Suzuki / ओसामु सुजुकी C. Arijit Singh / अरिजीत सिंह

 - D. P.R. Sreejesh / पी.आर. श्रीजेश

- Which cities in India were recognized as "Wetland Cities" under the **Ramsar Convention?**
- रामसर कन्वेंशन के तहत भारत के किन शहरों को "वेटलैंड सिटी" के रूप में मान्यता दी गई?
- A. Bhopal and Jaipur / भोपाल और जयपूर
 - B. Lucknow and Hyderabad / लखनऊ और हैदराबाद

 - C. Udaipur and Indore / उदयंपुर और इंदौर D. Chennai and Pune / चेन्नई और पुणे

- What disease was found to be prevalent among Assam's tea plantation workers?
- असम के चाय बागान श्रमिकों में कौन सी बीमारी व्यापक रूप से पाई गई?
- A. Tuberculosis / तपेदिक (टीबी)

 B. Chronic Pulmonary Asporaillosis (CDA) / कॉनिक प्रत्योन
 - B. Chronic Pulmonary Aspergillosis (CPA) / क्रॉनिक पल्मोनरी एस्परगिलोसिस (CPA)
 - C. Silicosis / सिलिकोसिस
 - D. Dengue / डेंगू

- What was the cause of Assam's high CPA prevalence?
- असम में CPA की उच्च दर का कारण क्या था?
- A. Air pollution / वाय् प्रदूषण
 - B. Poor nutrition and kitchen smoke exposure / खराब पोषण और रसोई के ध्एं के संपर्क में आना

 - C. Contaminated drinking water / द्षित पेयजल
 D. Lack of vaccination programs / टीकाकरण कार्यक्रमों की कमी

- Who was Dr. K.M. Cherian, who passed away recently?
- हाल ही में दिवंगत डॉ. के.एम. चेरियन कौन थे?
- A. A space scientist / एक अंतरिक्ष वैज्ञानिक B. India's pioneer cardiac surgeon / भारत के अग्रणी हृदय शल्य चिकित्सक
 - C. A nuclear physicist / एक परमाणु भौतिक विज्ञानी D. A mathematician / एक गणितज्ञ

- What was the key achievement of the PSLV-C60 mission?
- PSLV-C60 मिशन की प्रमुख उपलब्धि क्या थी?
- A. First Indian satellite docking experiment / पहला भारतीय उपग्रह डॉकिंग प्रयोग
 - B. India's first private satellite launch / भारत का पहला निजी उपग्रह प्रक्षेपण
 - C. First manned spaceflight / पहला मानवयुक्त अंतरिक्ष मिशन D. Chandrayaan-4 lander test / चंद्रयान-4 लेंडर परीक्षण

- Which African region is seeing a decline in French influence?
- अफ्रीका के किस क्षेत्र में फ्रांस का प्रभाव घट रहा है?
- A. East Africa / पूर्वी अफ्रीका B. North Africa / उत्तरी अफ्रीका

 - C. West Africa / पश्चिम अफ्रीका
 - D. Central Africa / मध्य अफ्रीका

- What is a Black Panther?
- ब्लैक पैंथर क्या है?
- A. A rare species of panther / पैंथर की एक दुर्लभ प्रजाति
 - B. A melanistic big cat / एक मेलानिस्टिक बड़ी बिल्ली
 - C. A different species from leopards and jaguars / तेंदुए और जगुआर से अलग एक प्रजाति
 - D. A fictional superhero / एक काल्पनिक सुपरहीरो

- What is SEBI's Sachetisation Plan?
- SEBI की सैचेटाइजेशन योजना क्या है?
- A. A new e-wallet system for digital payments / डिजिटल भुगतान के लिए एक नया ई-वॉलेट सिस्टम
 - B. A stock market regulation for small traders / छोटे व्यापारियों के लिए शेयर बाजार विनियमन
 - C. A plan to allow small-ticket mutual fund investments / छोटे टिकट म्यूचुअल फंड निवेश की अनुमित देने की योजना
 - D. À tax-saving scheme for salaried individuals / वेतनभोगी व्यक्तियों के लिए एक कर-बचत योजना

Fun fact





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