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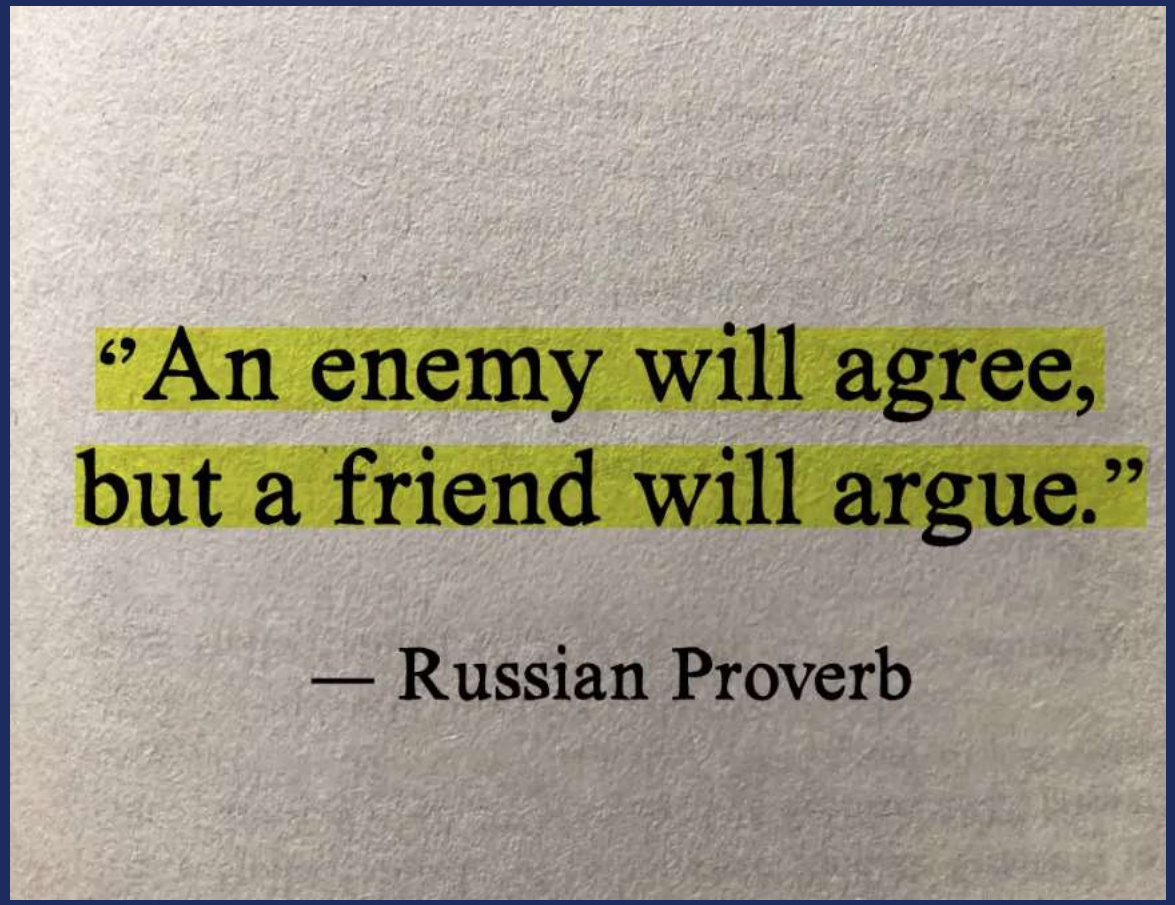
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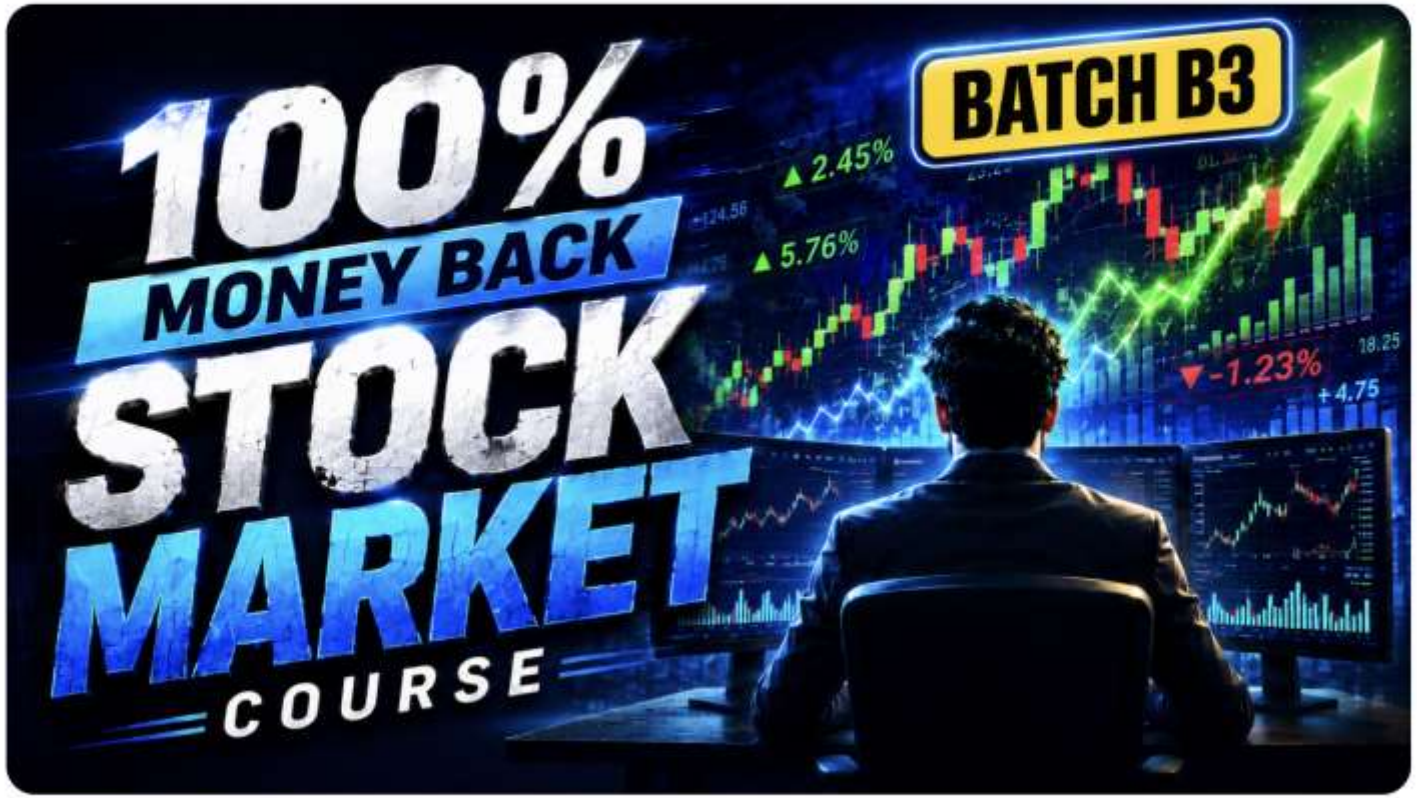
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"An enemy will agree,
but a friend will argue."
— Russian Proverb

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   भूटान में 108 स्तूप

2. **India’s first fusion power company sets reactor road map**
   फ़्यूज़न ऊर्जा

3. **Velvety crimson: Kashmir’s cockscomb flower (mawal)**
   कश्मीर का मावल

4. **Firecrackers can damage your ears**
   पटाख़े और कान

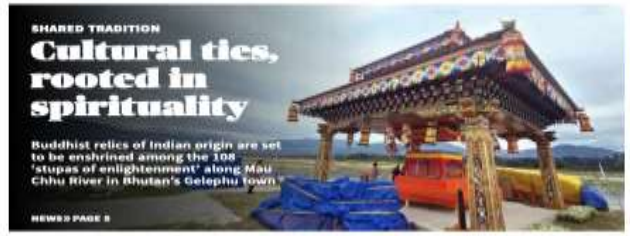
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SHARED TRADITION

Cultural ties, rooted in spirituality

Buddhist relics of Indian origin are set to be enshrined among the 108 'stupas of enlightenment' along Mau Chhu River in Bhutan's Gelephu town

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What safeguards exist against social media takedowns?

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Britain open to apologising for slavery, says PM Burnham

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INSIDE



Mojtaba warns U.S., Israel against launching attacks

TEHRAN

Following threats by the U.S and Israel to resume strikes against Iran after elections, Supreme Leader of the Islamic Republic Mojtaba Khamenei said on Saturday that any attack will be met with geographically unrestricted response. » PAGE 12

Meitei, Naga groups hold rallies in Manipur

IMPHAL

An umbrella body of Meitei groups held a rally in Imphal on Saturday seeking protection for indigenous people and the scrapping of the Suspension of Operations pact with militant groups. Naga civil bodies also held marches in Chandel and Senapati districts. » PAGE 3

Hundreds march against attacks on bookstalls

KOLKATA

Hundreds of people walked holding books in their hands at a rally in Kolkata on Saturday protesting against attacks on books and bookstalls, blamed on right-wing groups and the Bharatiya Janata Party (BJP). » PAGE 3

Polish President accuses PM of court takeover

WARSAW

Polish President Karol Nawrocki on Saturday accused Prime Minister Donald Tusk of staging a takeover of the country's top court after the head of the court, an ally of the previous far-right government, was suspended. » PAGE 12

INDIA bloc adopts 'motion to impeach' CEC

- Opposition levels six charges against Gyanesh Kumar as it holds symbolic Parliament session
- Rahul Gandhi warns that officials involved in electoral irregularities will face accountability
- Mallikarjun Kharge calls for the repeal of the law granting lifelong immunity to the CEC

Sandeep Phukan
NEW DELHI

The Indian National Developmental, Inclusive Alliance (INDIA) on Saturday carried out a symbolic "public impeachment" of Chief Election Commissioner Gyanesh Kumar, unanimously adopting a "motion" by a show of hands.

The Opposition bloc levelled six charges against Mr. Kumar, including conspiring with the ruling BJP to steal elections, disenfranchising 13.2 crore voters through the special intensive revision (SIR) exercises, and acting at the behest of Prime Minister Narendra Modi and Union Home Minister Amit Shah.

Leader of Opposition in the Lok Sabha Rahul Gandhi described the "impeachment" as a "political weapon" aimed at all those who had "collaborated" to destroy the votes of the Indian people. He asserted that Mr. Kumar should not only be removed from office but also tried in a court of law for treason. The Opposition was compelled to hold a public impeachment because "every other institution and institutional direction" was closed to it, Mr. Gandhi said, warning that those involved in irregularities "would not escape accountability and would eventually have to face the representatives of the people".

The "motion" was moved by Congress president Mallikarjun Kharge, whose official residence served as the venue for the public impeachment. The proceedings were modelled on those of Parliament, replicating the setting of the Lok Sabha, with former Speaker Meira Kumar presiding over the session.

'A political weapon'

Mr. Gandhi said the unprecedented gathering in the garden of Mr. Kharge's residence may seem "absurd" and reflected the closure of institutional avenues available to the Opposition.

In a pointed warning to officials working under the CEC, Mr. Gandhi said they could not expect legal protection to shield them indefinitely.

"Mr. Modi and Mr. Shah might be on top. We will deal with them, but you are their instruments, and so you are our first target," he said. He also cautioned officials not to underestimate the public response in a time of political change.

Mr. Gandhi alleged that 13.3 crore votes had been deleted from electoral rolls, accounting for nearly 15% of India's electorate, while the difference between the Opposition and the winning side in the 2024 Lok Sabha election was only three percentage points.

Earlier, moving the motion, Mr. Kharge accused the CEC of overseeing a conspiracy to manipulate elections, deleting voters' names, changing Form 6 without parliamentary oversight, centralising electoral rolls through ERONET/ECINET, excluding the other two Election Commissioners from decision-making, and acting at the behest of the Prime Minister and the Home Minister. He said 193 Opposition MPs had submitted notices in both Houses of Parliament seeking Mr. Kumar's removal seven months ago, but their proposals had been rejected.

The present exercise, he said, was intended to defend the dignity of a constitutional institution and restore public confidence in the Election Commission.

"We have no personal enmity with the CEC. We want the Election Commission to work impartially and maintain the trust of the people in it," he said, adding that the law which gives lifelong immunity to the CEC should be repealed.

Mamata Trinamool Congress leader Sagarika Ghose alleged that the 2026 West Bengal Assembly election was "stolen" by deleting eligible voters from the electoral rolls, while her colleague, Mahua Moitra, claimed that 71% of those deleted from the Bengal electoral rolls were Muslims and 51% were women.

Communist Party of India (Marxist) MP John Brittas said the SIR exercise was hollowing out universal adult franchise by forcing even elected representatives to establish their eligibility to vote.

Noting that he had personally attended two hearings to establish that he was an eligible voter, he asked: "If this is the situation of an MP, a public representative, what would be the condition of the common man?"

'Pawn on a chess board'

CPI MP P. Sandosh Kumar said the country was witnessing a reversal of the democratic experiment undertaken during the first general election. "In a democracy, people elect the government. In SIR, the reverse is happening — the government is selecting the voters," he said.

Independent Rajya Sabha member Kapil Sibal described Mr. Kumar as a "pawn on a chess board" and argued that manipulating the electoral rolls electronically came under the definition of treason under criminal laws.

VOTERS RAISE QUESTIONS
» PAGE 8



Congress president Mallikarjun Kharge speaks during the symbolic 'impeachment' of CEC in New Delhi on Saturday. PTI

Democratic institutions being ridiculed, says BJP

The Hindu Bureau
NEW DELHI

Accusing Opposition parties of repeatedly disrupting proceedings in the real Parliament, the Bharatiya Janata Party on Saturday said the Congress and its allies were ridiculing democratic institutions by staging a mock Parliament session.

FULL REPORT ON
» PAGE 8

Settling dust



Valiant effort: Workers spray water along a road in Delhi on Saturday to fight air pollution even as a spell of heavy rain on Friday gave the city its cleanest October day in four years with a 'satisfactory' air quality index reading. SUHAIL KARIM VENNA PULAYEN REPORT: PAGE 11

Blind faith, fear can lead to authoritarianism: SC judge

Krishnadas Rajagopal
NEW DELHI

Supreme Court judge Justice Ujjal Bhuyan said a society that accepts claims without evidence, fears questions and treats tradition as beyond question becomes vulnerable to misinformation, defenceless in the face of authoritarianism, and fails to reform unjust practices.

Justice Bhuyan said building a scientific temper enshrined in Article 51A of the Constitution should not be confined to laboratories but extend to the capacity of youths and students to think rationally as members of a civil and political society.

Attitude of inquiry

"All that you need is the capacity to think rationally; what you say or think must be based on reason. It is an attitude of inquiry and openness to examinations. It cannot happen overnight. The germination has to take place in the university," Justice Bhuyan said in his address at the University of Science and Technology, Meghalaya on Saturday.

The speech resonates after the nation saw widespread dissatisfaction among Gen Z over NEET 2026 paper leaks, student unrest in universities and a wave of agitations across premier institutions from IIT Bombay to multiple National Law Schools, followed by a demand to restore student union elections at Jamia Millia Islamia.

The judge said society should demand empirical evidence when public discourse relies on emotional resonance and unverified assertions. Students must acquire the habit of inquiry to see through misinformation.

'Destructive tendency'

"To inquire is to avoid accepting the very first explanation that comes our way. It tells us to look for reasons, and it trains the mind to search a little deeper than what appears at the surface. This is nothing else but the development of a scientific temper. This will protect the mind from prejudice and empower it to make independent thinking and choice possible," Justice Bhuyan said in his address.



> All you need is the capacity to think rationally; what you say or think must be based on reason. It is an attitude of inquiry and openness to examinations. It cannot happen overnight. The germination has to take place in the university
>
> JUSTICE UJJAL BHUYAN
> Supreme Court judge

The judge pointed out how society is willingly or unwillingly getting drawn into a "false narrative: the binary of 'us' and 'they'". He termed this a destructive tendency.

'Concept of we'

Justice Bhuyan said the narrative must shift from 'us' and 'they' to the 'we' of the Preamble to the Constitution of India, which starts with the expression 'We, the People of India'.

"This Constitutional concept of 'we' enables diversity to coexist with unity. Its genius lies in the fact that it does not seek to efface the differences; rather, it seeks to restore unity without demanding uniformity. It does not require that our individual identities should get subsumed in the larger whole," Justice Bhuyan said.

Two foreign nationals die in pool of Bengaluru hotel

The Hindu Bureau
BENGALURU

Two foreign nationals, a German and a Slovak, died following suspected electrocution in the swimming pool on the third floor of Conrad Hotel at Ulsoor in Bengaluru on Friday evening. The deceased have been identified as Alexander Maximilian Thelas, 57, a Lufthansa Airlines crew member, and Juraj Horvat, 45, a Slovak national working as a project manager with an IT company.

According to the police, two other persons sustained injuries while attempting to rescue the victims. They have been identified as Mathew Desantis, 41, an American tourist staying in the hotel, and Rahul Tiwari, 28, a pool attendant and lifeguard employed by Conrad Hotel. Both injured persons were shifted to a private hospital where they are undergoing treatment. They are said to be out of danger.

Bengaluru City Police Commissioner Seemant Kumar Singh said one of the victims reportedly came into contact with an electric current and collapsed. The second person, who attempted to rescue him, also suffered electric shock and died.

Preliminary assessment indicates that power leaked into the pool and there was a suspected short circuit.

Autopsy reports of the bodies of the two deceased and an Electrical Inspectorate inquiry report are awaited. Meanwhile, police registered a case against the hotel management for causing death due to negligence.

A spokesperson of the Conrad Hotel expressed condolences to the families of the deceased and said they were offering full support to the investigators.



The incident took place in the swimming pool on the third floor of Conrad Hotel at Ulsoor in Bengaluru on Friday. SPECIAL ARRANGEMENT


News
INBRIEF
ACM Ashutosh Dixit takes charge as 25th IAF chief
Omar Abdullah marries journalist Nidhi Razdan
490 policemen awarded Grihmantri Dakshata Padak
IIT-ISM Dhanbad student dies after falling from 8th floor
SUDOKU
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upas in Bhutan will have India-linked Buddha relics
Hundreds march in Kolkata against attacks on bookstalls
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's first fusion power company road map for a nuclear reactor

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पृष्ठ 5 · समाचार

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1. 108 stupas in Bhutan | भूटान में 108 स्तूप
2. India's first fusion company | फ़्यूज़न

108 stupas in Bhutan get India-linked Buddha relics

भूटान में 108 स्तूप

108 stupas in Bhutan will have India-linked Buddha relics

Rahul Karmakar
GELEPHU

Buddhist relics of Indian origin will be enshrined in most of the 108 *jangchub chortens* (stupas of enlightenment) that monks and volunteers are scheduled to build simultaneously along a 12 km stretch of the Mau Chhu River in the Bhutanese town of Gelephu on Sunday.

The event will mark the spiritual foundation of the Gelephu Mindfulness City (GMC), which Bhutan's King Jigme Khesar Namgyel Wangchuk envisions as a spirituality-driven global economic hub. About 240 km south-southeast of Bhutan's capital, Thimphu, the city borders Assam's Chirang district.

The Central Monastic Body of Bhutan, the country's principal institutional carrier of the Drukpa Kagyu lineage of Tibetan Buddhism, said that Buddhists in Malaysia, Singapore, Taiwan, Thailand, and Bhutan had donated hundreds of relics, mostly bones and hair.

"Malaysia sent three sets of 108 relics of the Buddha, enlightened saints and revered lamas. We received many from Thailand. Most of the relics were established as having been sourced from India," Choten Dorji, the Principal Secretary to one of the masters of the monastic body, said on Saturday.

The relics form part of the '*zung*', the living embodiment of the Buddha's enlightened body, speech and mind. The sacred components of the *zung* include *thangkhas* (traditional Tibetan Buddhist paintings on cotton or silk fabric), statues, precious stones, rolled mantra scrolls, or *dharanis*, and relics of enlightened beings.



All set: The podium set up for the Bhutan King's address during the ceremony. RAHUL KARMAKAR

The *jangchub chorten* commemorates the Buddha's attainment of enlightenment and symbolises the triumph of wisdom over ignorance. Once consecrated, a *chorten* is rendered equivalent to the living Buddha.

On February 26, King Wangchuk announced Project 108 at the GMC as a "test of national character", not merely an initiative to set a world record.

"It is an ambitious undertaking that demands courage, unity, and deep commitment. We must do it to prove to ourselves that, as we face the challenges ahead, there is no limit to what we can achieve when we stand together," he said.

Officials said that Project 108, involving 40,000 trained volunteers, was Bhutan's sacred gesture of peace in a world troubled by conflict.

Each *chorten* is estimated to cost $200,000, and individuals, families, communities, and institutions worldwide have contributed to the project.

According to the blueprint, each *chorten* will stand 15 metres tall, positioned 108 metres apart in a line along the Mau Chhu River, which runs through Gelephu.

Significance of '108'

Bhutan's spiritual leaders explained the rationale behind the number 108.

"In astronomy, the distance between the earth and the sun is approximately 108 times the sun's diameter and the distance between the earth and the moon is about 108 times the moon's diameter," a monk said.

"In some Tibetan Buddhist traditions, the Kangyur (principal collection of sacred Buddhist scriptures) is arranged in 108 volumes. Practitioners count 108 beads on a prayer mala, circumambulate sacred sites 108 times, and ring temple bells 108 times. In the Vajrayana Buddhist tradition, 108 symbolises spiritual completeness, cosmic balance, and the purification of karma," he said.

Project 108 also links to Hinduism. "Hindu tradition often speaks of 108 Upanishads (sacred philosophical texts). Many Hindu deities have 108 names. In yoga, the sun salutation is traditionally performed in cycles of 108," the monk said.

The date for executing Project 108 is significant, too. Bhutan observes November 1 as Lord Buddha's Descending Day and Mother's Day. Sunday also marks the 18th coronation anniversary of King Wangchuk, who reached Gelephu with his royal entourage on Saturday.

108 Stupas in Bhutan Will Have India-linked Buddha Relics

भूटान के गेलेफ़ू में माऊ छू नदी के 12 किमी तट पर एक साथ 108 “जांगचुब चोर्टेन” (स्तूप) बनेंगे – इनमें से अधिकांश में भारतीय मूल के बुद्ध अवशेष स्थापित होंगे; यह गेलेफ़ू माइंडफ़ुलनेस सिटी की आध्यात्मिक नींव

Project 108
प्रोजेक्ट 108

1 The event | आयोजन

- **108 jangchub chortens** built on one day
  108 स्तूप
- Along the **Mau Chhu river**, Gelephu
  माऊ छू नदी
- Spiritual foundation of **Gelephu Mindfulness City**
  GMC

2 In numbers | आँकड़े

$200,000 Cost per chorten प्रति स्तूप	**40,000** Trained volunteers स्वयंसेवक
15 m Height of each ऊँचाई	**12 km** Stretch of river नदी तट

3 Where relics came from अवशेष कहाँ से

- Donated from **Malaysia, Singapore, Taiwan, Thailand**
  दानदाता देश
- Mostly **bones and hair**
  अस्थि व केश
- **Most traced to India**
  भारतीय मूल

108 stupas in Bhutan get India-linked Buddha relics — in depth (1/2)

भूटान में 108 स्तूप — विस्तार से (1/2)

4 What is a ‘zung’ | ज़ुंग

- Living embodiment of Buddha’s **body, speech, mind**
  काया, वाणी, चित्त
- Holds **thangkas**, statues, precious stones
  थंका
- **Dharanis** (mantra scrolls) and **relics**
  धारणी

5 The jangchub chorten जांगचुब चोर्टेन

- Marks the Buddha’s **enlightenment**
  ज्ञान प्राप्ति
- Symbol of **wisdom over ignorance**
  अज्ञान पर ज्ञान
- Once consecrated = the **living Buddha**
  जीवित बुद्ध

6 Why this date तिथि का महत्व

- 1 Nov: Buddha’s **Descending Day** & Bhutan’s **Mother’s Day**
  अवतरण दिवस
- Also the King’s **18th coronation anniversary**
  राज्याभिषेक
- King called it a “**test of national character**”
  राष्ट्रीय चरित्र

108 stupas in Bhutan get India-linked Buddha relics — in depth (2/2)

भूटान में 108 स्तूप — विस्तार से (2/2)

7 From relic to living stupa | अवशेष से स्तूप तक

Donated
दान
By devotees abroad
विदेशी भक्त

→

Verified
सत्यापन
Origin checked
मूल जाँच

→

Placed in zung
जुंग में
With texts, statues
ग्रंथ, मूर्तियाँ

→

Consecrated
प्रतिष्ठा
Chorten complete
स्तूप

8 Did you know? क्या आप जानते हैं?

- Bhutan's **Central Monastic Body** carries the **Drukpa Kagyu** lineage
  द्रुकपा काग्यू
- Bhutan is called the world's first **carbon-negative** country
  कार्बन-नेगेटिव

108 stupas in Bhutan get India-linked Buddha relics — background (1/2)

भूटान में 108 स्तूप — पृष्ठभूमि (1/2)

9 Buddhist councils बौद्ध संगीतियाँ

Council संगीति	Place & patron स्थान व संरक्षक
First पहली	Rajagriha – Ajatashatru
Second दूसरी	Vaishali – Kalashoka
Third तीसरी	Pataliputra – Ashoka
Fourth चौथी	Kashmir – Kanishka

10 Schools of Buddhism बौद्ध संप्रदाय

- **Theravada** – Sri Lanka, Myanmar, Thailand
  थेरवाद
- **Mahayana** – China, Japan, Korea
  महायान
- **Vajrayana** – Tibet, Bhutan, Ladakh
  वज्रयान

11 India's relic diplomacy अवशेष कूटनीति

- Kapilavastu relics to **Mongolia** (2022)
  मंगोलिया
- Relics exposition in **Thailand** (2024)
  थाईलैंड
- **Piprahwa** gems brought home from auction (2025)
  पिपरहवा

108 stupas in Bhutan get India-linked Buddha relics — background (2/2)

भूटान में 108 स्तूप — पृष्ठभूमि (2/2)

12 India–Bhutan milestones | भारत–भूटान

Friendship Treaty
मैत्री संधि
1949
1949

→

Treaty revised
संशोधित
2007
2007

→

Mangdechhu hydro
मांगदेछू
720 MW, 2019
2019

→

Rail link
रेल संपर्क
Kokrajhar–Gelephu
कोकराझार

13 Gelephu Mindfulness City
गेलेफ़ू सिटी

- Announced by the King in **Dec 2023**
  2023
- A **Special Administrative Region** with own laws
  विशेष प्रशासनिक क्षेत्र
- Aims for a **green, mindful economy**
  हरित अर्थव्यवस्था

108 stupas in Bhutan get India-linked Buddha relics — Static GK

भूटान में 108 स्तूप — स्थैतिक सामान्य ज्ञान

14 Bhutan at a glance भूटान

Fact तथ्य	Detail विवरण
Capital राजधानी	Thimphu
Currency मुद्रा	Ngultrum (pegged to ₹)
National Day राष्ट्रीय दिवस	17 December
King's title उपाधि	Druk Gyalpo (Dragon King)

15 Buddhist UNESCO sites in India यूनेस्को स्थल

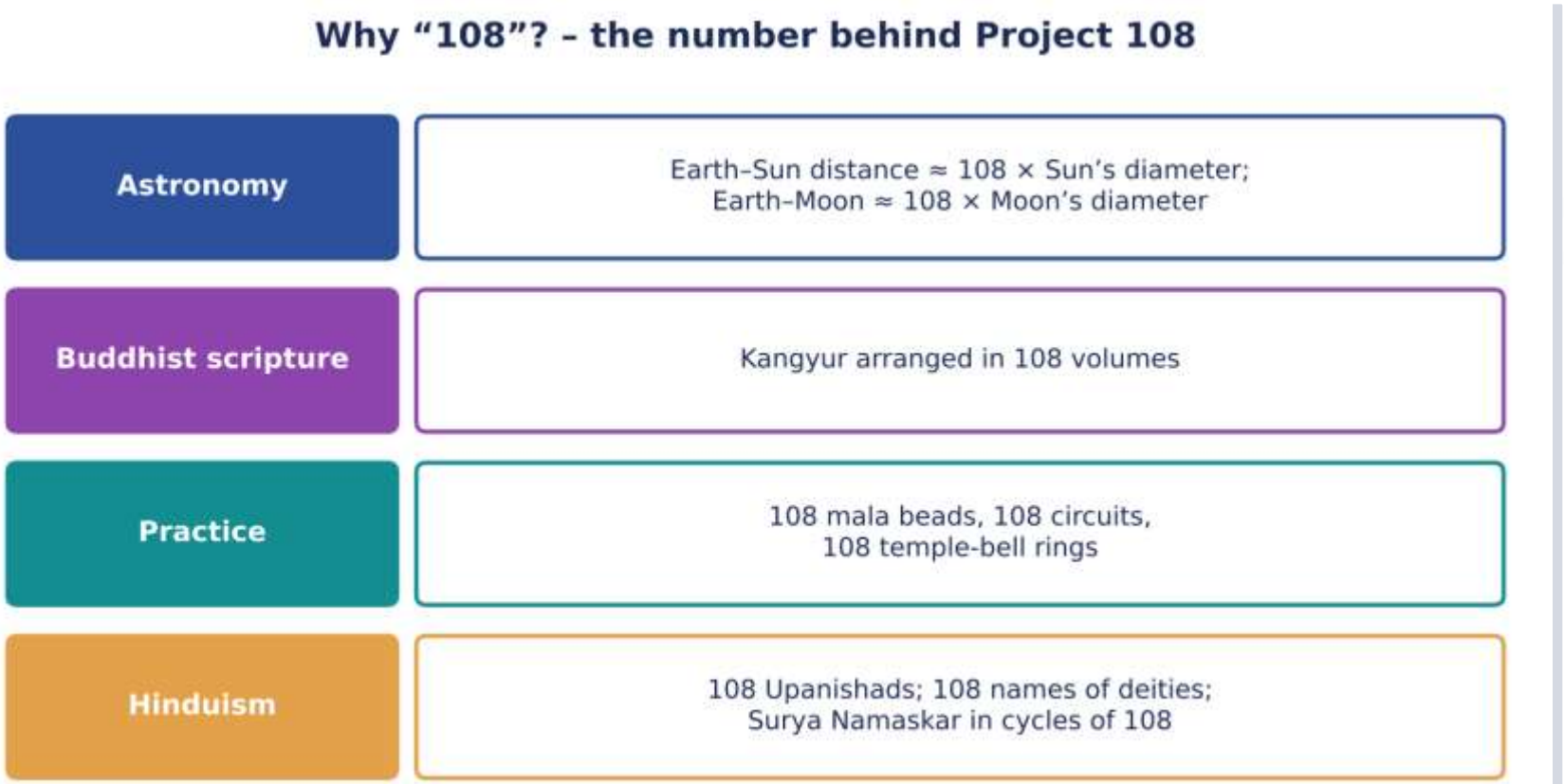
- **Ajanta Caves** (1983) अजंता
- **Sanchi** stupas (1989) साँची
- **Mahabodhi Temple**, Bodh Gaya (2002) महाबोधि

16 Buddhist terms बौद्ध शब्दावली

- **Stupa** – relic mound; **Chaitya** – prayer hall स्तूप, चैत्य
- **Vihara** – monastery विहार
- **Tripitaka** – Vinaya, Sutta, Abhidhamma त्रिपिटक

108 stupas in Bhutan get India-linked Buddha relics — Map & Diagram

भूटान में 108 स्तूप — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Science, scripture and practice all use **108**
  108 का महत्व
- The number links **Buddhism and Hinduism**
  बौद्ध व हिंदू परंपरा
- Hence **108 stupas**, set **108 m apart**
  108 मीटर दूरी

108 stupas in Bhutan get India-linked Buddha relics — Map & Diagram

भूटान में 108 स्तूप — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Gelephu borders **Assam's Chirang** district
  चिरांग, असम
- About **240 km** south-southeast of Thimphu
  240 किमी
- Buddha's four holy sites: **Lumbini, Bodh Gaya, Sarnath, Kushinagar**
  चार तीर्थ

India’s first fusion power company sets reactor road map

फ़्यूज़न ऊर्जा

India’s first fusion power company sets road map for a nuclear reactor

Jacob Koshy
NEW DELHI

If all goes to plan, India may see designs for the first privately-built tokamak, a nuclear reactor that uses fusion to produce energy, firmed up in 2027.

Bengaluru-based startup Pranos Fusion has built PRAGYA, a small doughnut-shaped tokamak, to test plasma control and superconducting magnets. This is a gateway to building PRANIK, a larger tokomak that will have plasma heated up to millions of degrees – more than the interior of the Sun – necessary to fuse hydrogen atoms and create energy.

“By 2027, we expect to finalise the blueprint for PRANIK and be on our way to building a practical reactor that can produce energy. To be able to actually produce electricity from fusion is a further step away,” Shaurya Kaushal, co-founder and CEO of Pranos Fusion, said.



Fusion frontier: The Bengaluru-based startup has built a compact tokamak as a test bed for plasma control. SPECIAL ARRANGEMENT

Nuclear plants everywhere employ fission – a chain reaction involving uranium nuclei to produce heat that is used to generate electricity. Fusion, on the other hand, releases energy when light atomic nuclei merge, and usually involves joining two forms of hydrogen – deuterium and tritium – into helium and a fast neutron. However, this requires the fuel to be heated to around 100 million degrees Celsius, far hotter than any solid wall could withstand. In tokamaks, powerful magnets hold this superheated plasma away from the walls, keeping it hot enough for fusion to continue.

“Electricity from a fusion reactor is still far away and would be expensive now, however the need for any source of energy is only going to grow,” co-founder Roshan George said.

“Fusion’s advantage is that while [it’s] nuclear power, it doesn’t need radioactive material like uranium. India already produces plenty of deuterium. Fusion reactions are also not chain reactions, and therefore the risk of a runaway reaction [like in a fission reactor] is almost absent,” Mr. George added.

The cost of a private tokamak depends on scale, Mr. Kaushal said. A compact research machine like PRAGYA is “a comparatively modest investment”.

Pranos Fusion says compact machines, HTS (high-temperature superconducting) magnets, and India's manufacturing base can bring costs down substantially. It is backed by Ankur Capital, pi Ventures and Industrial47, and has raised $7.2 million.

India's First Fusion Power Company
Sets Road Map for a Reactor

बेंगलुरु की स्टार्टअप प्रानोस फ़्यूज़न ने छोटा टोकामक "प्रज्ञा" बनाया – 2027 तक बड़े टोकामक "प्राणिक" का ब्लूप्रिंट तैयार करने का लक्ष्य; भारत का पहला निजी फ़्यूज़न रिएक्टर डिज़ाइन बन सकता है

Private fusion
निजी फ़्यूज़न

1 The startup | स्टार्टअप

- **Pranos Fusion**, Bengaluru
  प्रानोस फ़्यूज़न
- Built **PRAGYA** – a small doughnut-shaped tokamak
  प्रज्ञा
- Tests **plasma control** & superconducting magnets
  प्लाज़्मा नियंत्रण

2 The plan | योजना

- Next: **PRANIK**, a larger tokamak
  प्राणिक
- Blueprint by **2027**
  2027
- Electricity is "a **further step away**"
  बिजली अभी दूर

3 Money & people
पूँजी व संस्थापक

- Raised **$7.2 million**
  $7.2 मिलियन
- Backers: **Ankur Capital, pi Ventures, Industrial47**
  निवेशक
- CEO **Shaurya Kaushal**; co-founder **Roshan George**
  संस्थापक

India’s first fusion power company sets reactor road map — in depth (1/2)

फ़्यूज़न ऊर्जा — विस्तार से (1/2)

4 Why fusion appeals आकर्षण

- No **radioactive fuel** like uranium
  रेडियोधर्मी ईंधन नहीं
- India already makes plenty of **deuterium**
  ड्यूटेरियम
- Almost no risk of a **runaway reaction**
  सुरक्षित

5 The hard part | चुनौती

- Fuel heated to **~100 million °C**
  10 करोड़ °C
- Hotter than the **Sun’s interior**
  सूर्य से गर्म
- **Magnets** keep plasma off the walls
  चुंबक

6 Cutting costs लागत घटाना

- **Compact** machines
  छोटी मशीनें
- **HTS** (high-temperature superconducting) magnets
  HTS चुंबक
- India’s **manufacturing** base
  विनिर्माण

India's first fusion power company sets reactor road map — in depth (2/2)

फ़्यूज़न ऊर्जा — विस्तार से (2/2)

7 Pranos road map | रोडमैप

PRAGYA
प्रज्ञा
Test bed
परीक्षण

→

PRANIK
प्राणिक
Blueprint 2027
2027

→

Practical reactor
रिएक्टर
Produces energy
ऊर्जा

→

Electricity
बिजली
Later
बाद में

8 Did you know? क्या आप जानते हैं?

- The **Sun** shines by fusing hydrogen into helium
  सूर्य
- "**Tokamak**" is a Russian acronym from the 1950s USSR
  रूसी शब्द

India's first fusion power company sets reactor road map — background (1/2)

फ़्यूज़न ऊर्जा — पृष्ठभूमि (1/2)

9 Hydrogen isotopes हाइड्रोजन समस्थानिक

Isotope समस्थानिक	Neutrons न्यूट्रॉन
Protium प्रोटियम	0
Deuterium ड्यूटेरियम	1 (heavy water)
Tritium ट्रिटियम	2 (radioactive)
All have सभी में	1 proton

10 ITER | ITER

- India joined in **2005**
  2005
- **7 members**: EU, China, India, Japan, Korea, Russia, US
  7 सदस्य
- India supplied the giant **cryostat**
  क्रायोस्टैट

11 India's tokamaks भारत के टोकामक

- **ADITYA** (1989) – first indigenous tokamak
  आदित्य
- **SST-1** – steady-state superconducting tokamak
  SST-1
- Run by the **Institute for Plasma Research**
  IPR

India's first fusion power company sets reactor road map — background (2/2)

फ़्यूज़न ऊर्जा — पृष्ठभूमि (2/2)

12 India's three-stage nuclear plan | त्रि-चरणीय कार्यक्रम

Stage 1 चरण 1	Stage 2 चरण 2	Stage 3 चरण 3	Architect परिकल्पना
PHWR, natural U यूरेनियम	Fast breeders, Pu प्लूटोनियम	Thorium थोरियम	Homi Bhabha भाभा

13 Nuclear opening up परमाणु क्षेत्र

- **SHANTI Act, 2025** allows private players
  शांति अधिनियम
- **Nuclear Energy Mission** – ₹20,000 cr for SMRs
  SMR
- Target: **100 GW** nuclear by **2047**
  100 GW

Class24

India's first fusion power company sets reactor road map — Static GK

फ़्यूज़न ऊर्जा — स्थैतिक सामान्य ज्ञान

14 Nuclear institutions परमाणु संस्थान

Body संस्था	Founded स्थापना
Atomic Energy Commission **AEC**	1948
Dept of Atomic Energy **DAE**	1954
BARC, Trombay **BARC**	1954 (renamed 1967)
NPCIL **NPCIL**	1987

15 Pioneers अग्रणी वैज्ञानिक

- **Homi Bhabha** – father of India's nuclear programme
  होमी भाभा
- **Meghnad Saha** – ionisation equation for stars
  मेघनाद साहा
- **Raja Ramanna** – led Pokhran-I (1974)
  राजा रमन्ना

16 Quick facts | त्वरित तथ्य

- **E = mc²** – Einstein, 1905
  आइंस्टीन
- India's first nuclear power plant: **Tarapur** (1969)
  तारापुर
- Sun's core is about **15 million °C**
  सूर्य का केंद्र

India’s first fusion power company sets reactor road map — Map & Diagram

फ़्यूज़न ऊर्जा — मानचित्र व आरेख

Fission vs Fusion

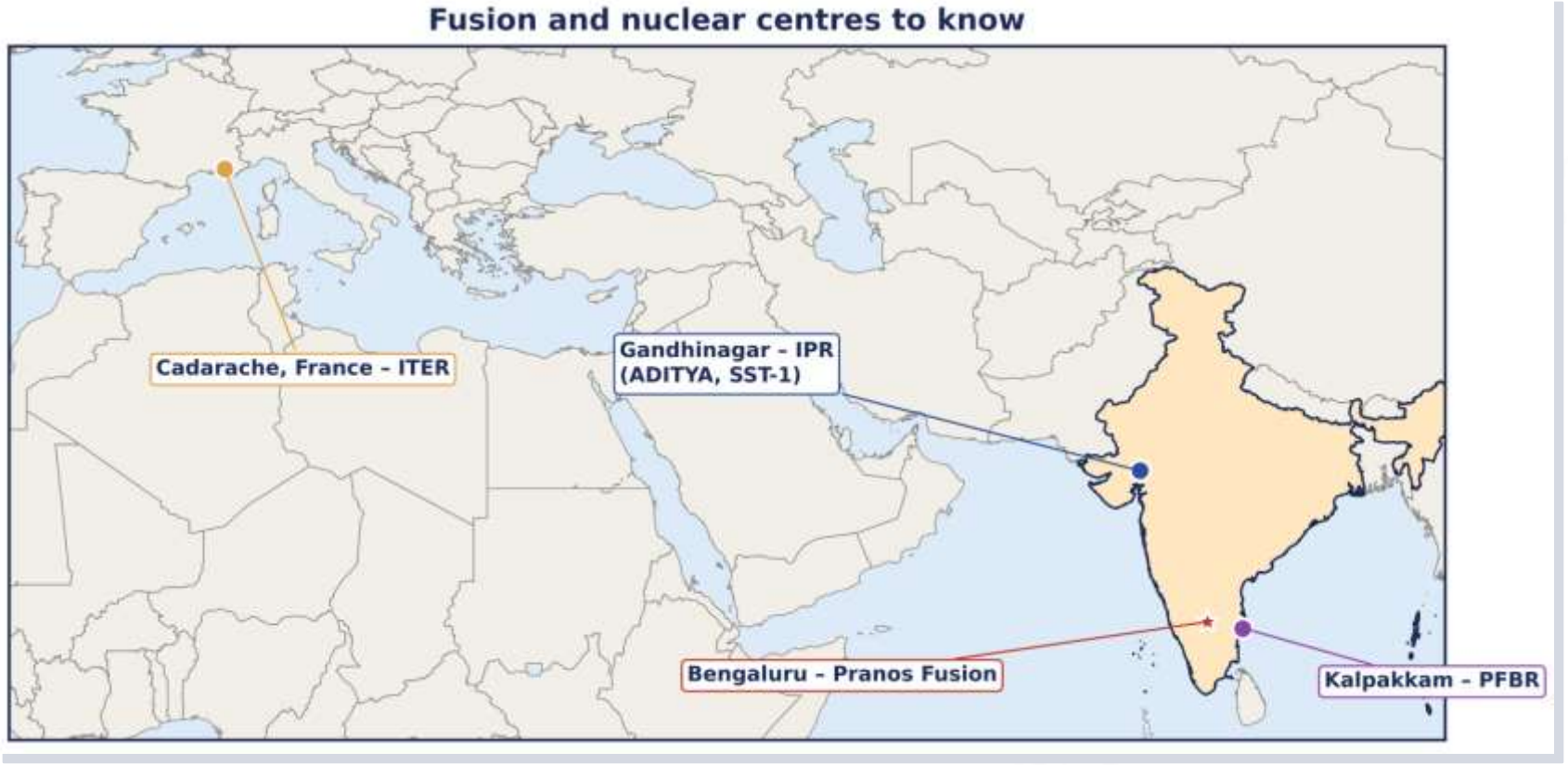
	FISSION (today’s plants)	FUSION (the goal)
Process	Heavy nucleus splits	Light nuclei join
Fuel	Uranium / plutonium	Deuterium + tritium
Product	Lighter elements + heat	Helium + fast neutron
Runaway risk	Chain reaction – needs control	No chain reaction
Status	Commercial since 1950s	Still experimental

Read the visual
चित्र को समझें

- Fission **splits heavy** nuclei; fusion **joins light** ones
  विखंडन बनाम संलयन
- Fusion waste is far **less long-lived**
  कम अपशिष्ट
- All power plants today are **fission**
  आज केवल विखंडन

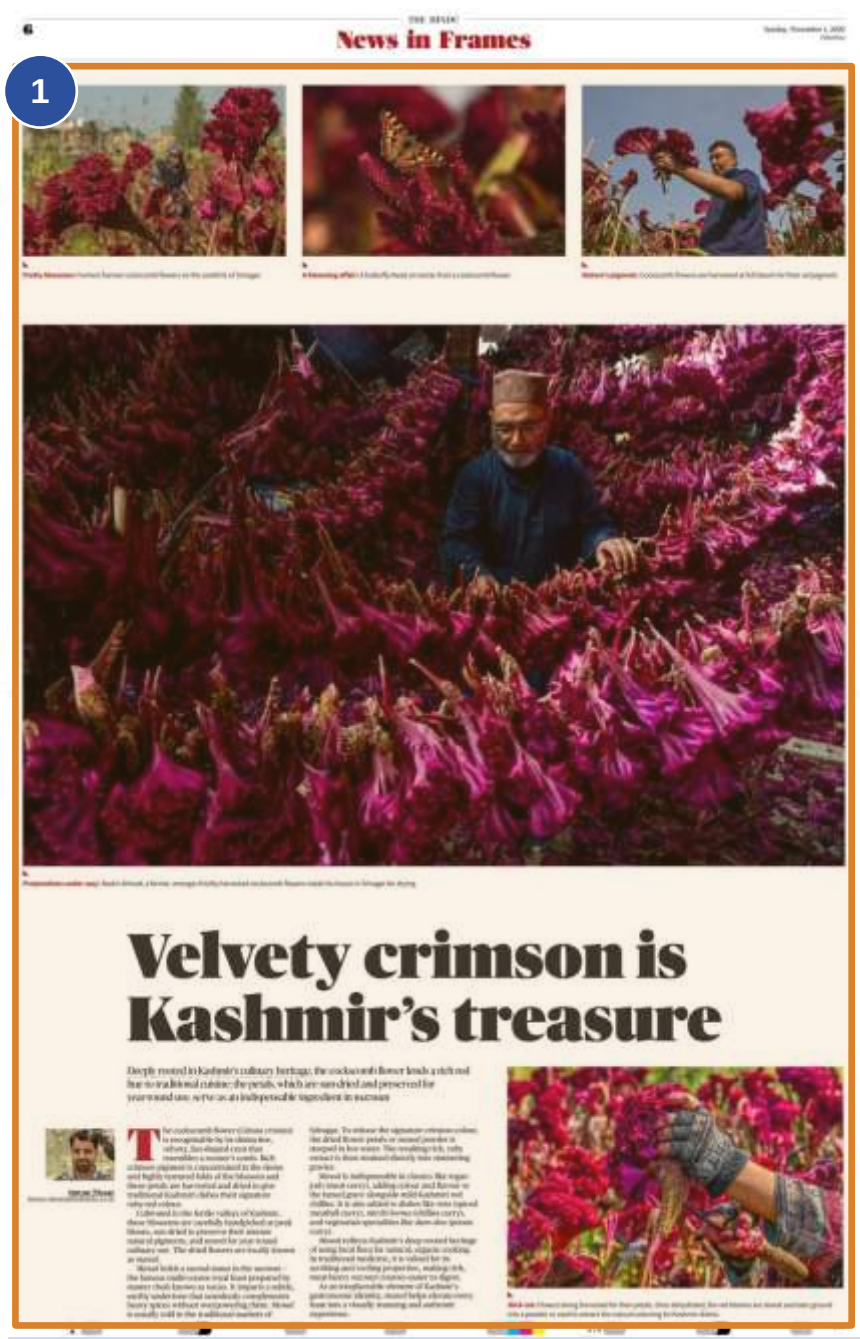
India’s first fusion power company sets reactor road map — Map & Diagram

फ़्यूज़न ऊर्जा — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Pranos Fusion** is in Bengaluru
  बेंगलुरु
- **IPR, Gandhinagar** runs India’s tokamaks
  गांधीनगर
- **ITER** is being built at **Cadarache**, France
  ITER
- **Kalpakkam** – fast breeder reactor
  कलपक्कम



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Page 6 · News in Frames

पृष्ठ 6 · तस्वीरों में

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Kashmir's cockscomb flower (mawal) | मावल**

Velvety crimson: Kashmir's cockscomb flower (mawal)

कश्मीर का मावल



Velvety crimson is Kashmir's treasure

Deeply rooted in Kashmir's culinary heritage, the cockscomb flower lends a rich red hue to traditional cuisine; the petals, which are sun-dried and preserved for year-round use, serve as an indispensable ingredient in *wazwan*

The cockscomb flower (*Celosia cristata*) is recognisable by its distinctive, velvety, fan-shaped crest that resembles a rooster's comb. Rich crimson pigment is concentrated in the dense and highly textured folds of the blossom and these petals are harvested and dried to give traditional Kashmiri dishes their signature ruby-red colour.

Cultivated in the fertile valleys of Kashmir, these blossoms are carefully handpicked at peak bloom, sun-dried to preserve their intense natural pigments, and stored for year-round culinary use. The dried flowers are locally known as *mawal*.

Mawal holds a sacred status in the *wazwan* – the famous multi-course royal feast prepared by master chefs known as *wazas*. It imparts a subtle, earthy undertone that seamlessly complements heavy spices without overpowering them. *Mawal* is usually sold in the traditional markets of Srinagar. To release the signature crimson colour, the dried flower petals or *mawal* powder is steeped in hot water. The resulting rich, ruby extract is then strained directly into simmering gravies.

Mawal is indispensable in classics like rogan josh (meat curry), adding colour and flavour to the famed gravy alongside mild Kashmiri red chillies. It is also added to dishes like *rista* (spiced meatball curry), *mirchi korma* (chillies curry), and vegetarian specialities like *dum aloo* (potato curry).

Mawal reflects Kashmir's deep-rooted heritage of using local flora for natural, organic cooking. In traditional medicine, it is valued for its soothing and cooling properties, making rich, meat-heavy *wazwan* courses easier to digest.

As an irreplaceable element of Kashmir's gastronomic identity, *mawal* helps elevate every feast into a visually stunning and authentic experience.



Slick cut: Flowers being harvested for their petals. Once dehydrated, the red blooms are stored and later ground into a powder or used to extract the natural colouring for Kashmiri dishes.

Class24

Velvety Crimson Is Kashmir's Treasure

News in Frames
तस्वीरों में

मुर्गे की कलगी जैसा दिखने वाला कॉक्सकॉम्ब फूल (सेलोसिया क्रिस्टाटा) कश्मीरी व्यंजनों को गहरा लाल रंग देता है – धूप में सुखाई पंखुड़ियाँ "मावल" कहलाती हैं और वाज़वान का अनिवार्य हिस्सा हैं

1 The flower | फूल

- **Cockscomb** – *Celosia cristata*
  कॉक्सकॉम्ब
- Crest like a **rooster's comb**
  मुर्गे की कलगी
- Pigment packed in **dense velvety folds**
  मख़मली परतें

2 From the field | खेत से

- **Handpicked** at peak bloom
  हाथ से तुड़ाई
- **Sun-dried** to keep colour
  धूप में सुखाना
- Dried flowers called **mawal**
  मावल

3 In the wazwan
वाज़वान में

- Holds a **sacred** place in wazwan
  पवित्र स्थान
- Cooked by master chefs – **wazas**
  वाज़ा
- Gives a subtle **earthy undertone**
  मिट्टी जैसी सुगंध

Velvety crimson: Kashmir's cockscomb flower (mawal) — in depth (1/2)

कश्मीर का मावल — विस्तार से (1/2)

4 Dishes it colours व्यंजन

- **Rogan josh** – with mild Kashmiri chillies
  रोगन जोश
- **Rista** – spiced meatball curry
  रिस्ता
- **Mirchi korma**, and veg **dum aloo**
  दम आलू

5 Heritage & health विरासत व स्वास्थ्य

- Valued as **soothing, cooling** in traditional medicine
  ठंडक
- Helps **digest** rich, meaty courses
  पाचन
- A **natural, organic** colour
  प्राकृतिक रंग

6 In the market | बाज़ार

- Sold in **Srinagar's old markets**
  श्रीनगर बाज़ार
- Stored for **year-round** use
  साल भर
- Natural rival to **synthetic dyes**
  कृत्रिम रंग का विकल्प

Velvety crimson: Kashmir’s cockscomb flower (mawal) — in depth (2/2)

कश्मीर का मावल — विस्तार से (2/2)

7 Nature’s food colours | प्राकृतिक खाद्य रंग

Mawal मावल	Saffron केसर	Turmeric हल्दी	Ratanjot रतनजोत
Crimson लाल	Golden सुनहरा	Yellow पीला	Deep red गहरा लाल

8 Did you know? क्या आप जानते हैं?

- Celosia belongs to the **amaranth family**
  चौलाई कुल
- Its leaves are eaten as **greens** in parts of Africa
  पत्तेदार सब्ज़ी

Velvety crimson: Kashmir's cockscomb flower (mawal) — background (1/2)

कश्मीर का मावल — पृष्ठभूमि (1/2)

9 GI tags of J&K | GI टैग

Product उत्पाद	GI year वर्ष
Kashmir Pashmina पश्मीना	2008
Kashmir Saffron केसर	2020
Bhaderwah Rajmash राजमाश	2023
Basohli painting बसोहली	2023

10 Kashmiri food culture
खान-पान

- Wazwan can run to **36 courses**
  36 व्यंजन
- **Gushtaba** is usually the last dish
  गुश्ताबा
- **Kahwa** – saffron green tea
  कहवा

11 Saffron | केसर

- World's **costliest spice** – *Crocus sativus*
  सबसे महँगा मसाला
- **National Saffron Mission** (2010)
  राष्ट्रीय केसर मिशन
- **Iran** is the largest producer
  ईरान

Velvety crimson: Kashmir's cockscomb flower (mawal) — background (2/2)

कश्मीर का मावल — पृष्ठभूमि (2/2)

12 J&K timeline | जम्मू-कश्मीर

Accession विलय	Art 370 ended अनु. 370	Union Territory केंद्रशासित	Assembly polls चुनाव
26 Oct 1947 1947	5 Aug 2019 2019	31 Oct 2019 2019	2024 2024

13 Food colour rules
खाद्य रंग नियम

- Regulated by **FSSAI** (FSS Act, 2006)
  FSSAI
- Only **listed synthetic colours** allowed, in limits
  सीमित कृत्रिम रंग
- Natural colours like **curcumin** permitted
  प्राकृतिक रंग

Velvety crimson: Kashmir's cockscomb flower (mawal) — Static GK

कश्मीर का मावल — स्थैतिक सामान्य ज्ञान

14 J&K at a glance
जम्मू-कश्मीर

Fact तथ्य	Detail विवरण
Summer capital ग्रीष्म राजधानी	Srinagar
Winter capital शीत राजधानी	Jammu
State animal राज्य पशु	Hangul (Kashmir stag)
Hangul home आवास	Dachigam National Park

15 Kashmiri crafts
कश्मीरी शिल्प

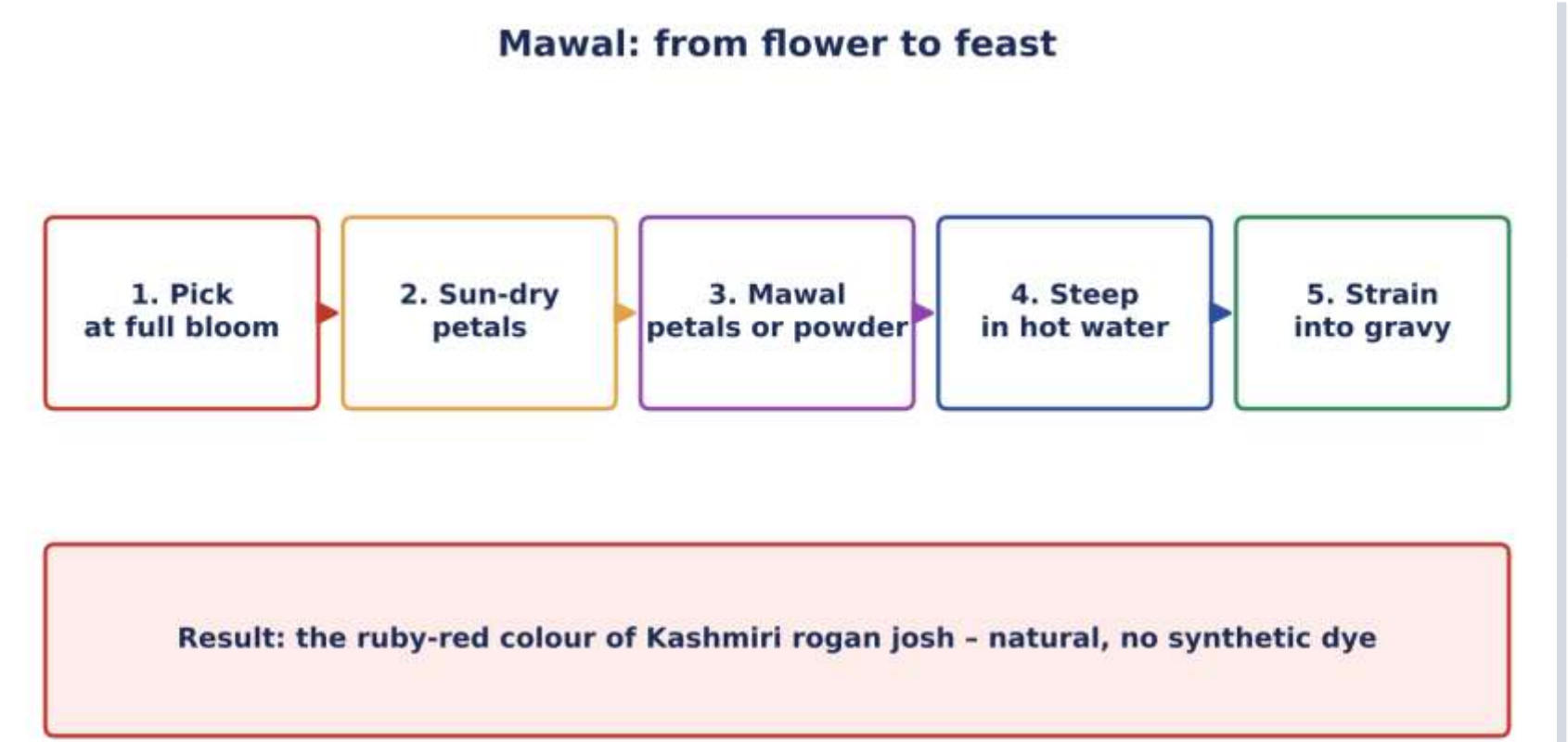
- **Kani** shawls
  कानी शॉल
- **Papier-mâché**
  पेपर-मेशी
- **Khatamband** – wooden ceilings
  खतमबंद

16 Voices of Kashmir
कश्मीर के कवि-इतिहासकार

- **Kalhana** – *Rajatarangini* (12th c.)
  कल्हण
- **Lal Ded** (Lalleshwari) – mystic poet
  लल्लेश्वरी
- **Nund Rishi** (Sheikh Nooruddin) – Sufi saint
  नुंद ऋषि

Velvety crimson: Kashmir’s cockscomb flower (mawal) — Map & Diagram

कश्मीर का मावल — मानचित्र व आरेख

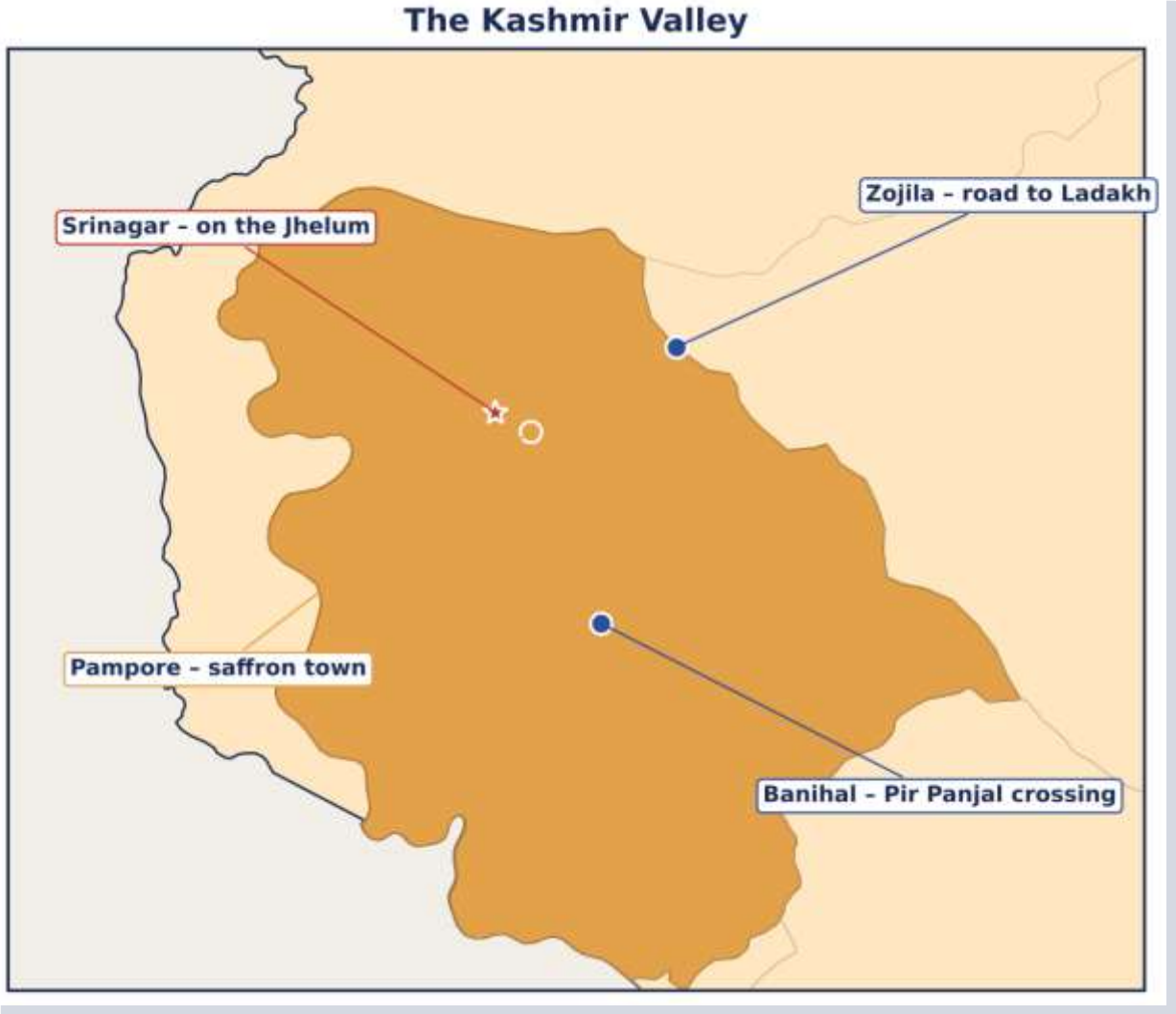


Read the visual
चित्र को समझें

- Colour is released by **steeping in hot water**
  गर्म पानी
- Extract is strained into **simmering gravies**
  ग्रेवी में
- Used as **petals or powder**
  पंखुड़ी या पाउडर

Velvety crimson: Kashmir’s cockscomb flower (mawal) — Map & Diagram

कश्मीर का मावल — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Srinagar** lies on the **Jhelum**
  झेलम
- **Pampore** – Kashmir’s saffron town
  पंपोर
- **Zojila** links Kashmir with Ladakh
  ज़ोजिला
- **Banihal** – crossing over the **Pir Panjal**
  बनिहाल



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Page 9 · Well Being

पृष्ठ 9 · स्वास्थ्य

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Firecrackers & your ears | पटाख़े और कान**

Firecrackers can damage your ears

पटाख़े और कान

Firecrackers don't just bring respiratory and burn risks, they can also pose significant risks to your ears, with impact extending beyond festivities

SREYA DEB

DIWALI IS A time of lights, family and celebration. But alongside the glow of diyas and the colours of rangoli, the festival often brings another, less welcome feature: the explosive sound of firecrackers and hours of loud music and loudspeakers.

Earlier this month, a seven-year-old girl in Balrampur, Uttar Pradesh, died in school, allegedly due to a loud Ganesh puja immersion procession that was passing by. She was taken to the hospital and was declared dead on arrival. The school authorities lodged an FIR alleging that the high-decibel DJ music played during the procession caused the child's death. The DJ owner and operator were subsequently arrested and the local police outpost in-charge suspended. In light of this case, several PILs regarding noise pollution are currently being examined by the Allahabad High Court. Excessive noise is not merely a nuisance. The risks depend on how loud the sound is, how long a person is exposed to it and how close they are to its source.

"Noise pollution during Diwali can affect more than just hearing," says Dr Noor Ul Din Malik, senior consultant, ENT, Indraprastha Apollo Hospitals, New Delhi. "Firecrackers produce sudden bursts of sound, sometimes at very high intensity, while loudspeakers can expose



Hear it out FOR DIWALI

Stay safe

The most effective protection is to reduce exposure at its source. Maintain as much distance as possible from firecrackers, avoid standing near the point of ignition and never burst crackers close to another person's face or ears. Children should be kept away from firecracker activity and supervised carefully.

Dr Handa recommends well-fitted earplugs or protective earmuffs. These can reduce exposure but cannot eliminate the risk from extremely loud blasts; cotton wool and tissue are not reliable substitutes. Dr Mahajan advises that households can also choose alternatives

Firecrackers can damage your ears

पटाख़े और कान

people to loud noise for several hours." Dr KK Handa, chairman, ENT, head and neck surgery, Medanta, Gurugram, also warns that the absence of immediate pain, he emphasises, does not necessarily mean the ears have escaped damage.

Loud & dangerous

Normal conversation typically falls around 60-70 dB (decibels), while busy environments may reach 80-85 dB or higher. Sounds averaging around 70 dBA or below are generally unlikely to cause hearing loss from prolonged exposure, whereas repeated or extended exposure at around 85 dBA can become hazardous.

However, firecrackers pose a different challenge because they produce sudden, intense bursts rather than continuous noise. Depending on the type of cracker, distance and measurement conditions, peak sound levels close to the source can reach approximately 140-160 dB or more. Such blasts can injure hearing almost instantaneously, doctors say.

Dr Malik cautions, "A very loud blast can cause immediate ear injury, while repeated exposure may contribute to longer-term health effects." Dr Handa adds that standard safe-listening recommendations for continuous noise cannot simply be applied to explosive sounds. The commonly cited occupational exposure reference of 85 dBA over eight hours is not a guarantee of safety from sudden blasts. It is also important to distinguish personal hearing risks from legal limits for neighbourhood noise. Under India's Noise Pollution (Regulation and Control) Rules, 2000, the prescribed ambient noise limits for residential areas are 55 dB(A) during the day and 45 dB(A) at night. These are limits for equivalent continuous ambient noise, not peak readings for individual firecrackers.

Dr Monica Mahajan, principal director and head of internal medicine at Max Hospital, Saket, notes that the World Health Organization identifies impulse noise above 140 dB for adults and 120 dB for children as extremely hazardous. These figures should be understood as danger thresholds, rather than safe exposure targets.

KNOW YOUR FIRECRACKERS

- Atom bomb (foiled) **128 dB**
- Atom bomb (green sutli) **127 dB**
- Hydro bomb (foiled) **127-128 dB**
- Timing bomb (delayed ignition sound burst) **127**
- String *patakhas* (continuous noise maker rather than a short burst) **126 dB**



Under India's Noise Pollution (Regulation and Control) Rules, 2000, the prescribed ambient noise limits for residential areas are 55 dB(A) during the day and 45 dB(A) at night

Wider impact

The inner ear contains delicate sensory cells that convert sound into signals for the brain, doctors explain. Extremely loud noise can damage these cells, and the damage may be permanent. Dr Mahajan explains that the intense sound of crackers can damage inner-ear hair cells, leading to high-frequency hearing impairment or permanent hearing loss. "Injury may also affect the vestibular system, which helps maintain balance. In severe cases, an explosive blast can injure or rupture the eardrum," she says.

Sudden loud sounds activate the body's stress response, temporarily increasing heart rate and blood pressure. "Prolonged or repeated environmental noise exposure has been associated with a higher risk of hypertension and cardiovascular disease as well," says Dr Malik. He explains that stress and disrupted sleep may partly account for these effects, while cautioning that a single exposure does not automatically cause chronic disease. Dr Mahajan also flags the wider impact on people with diabetes and older adults, who may be more vulnerable to the physiological effects of stress.

Warning signs

Dr Mahajan identifies ringing, muffled hearing, ear pressure, imbalance, ear discharge and intolerance to loud sounds as warning signs that warrant attention.

Dr Handa stresses that sudden hearing loss requires urgent medical assessment, preferably on the same day, even if it affects only one ear and is not accompanied by pain. Some causes of sudden hearing loss are time-sensitive and may respond better to prompt treatment.

Bleeding or fluid coming from the ear after a blast, severe pain, marked dizziness or vertigo also requires urgent evaluation. If there is facial weakness or another severe symptom, seek emergency medical care. Chest pain, fainting or severe breathlessness after an incident warrants emergency assistance as well.

Move away from the noise immediately and enter a quiet environment. Avoid headphones, loud music and further exposure. Do not insert cotton buds or other objects into the ear, flush it with water, or use oil or unprescribed ear drops, say doctors. If eardrum injury is suspected, keep the ear dry until a doctor assesses it. An ENT specialist may recommend an examination and audiometry, or a hearing test, to establish whether damage has occurred.

Vulnerable groups

Dr Mahajan points out that children's shorter ear canals may increase their exposure to sound reaching the inner ear. Parents should avoid taking babies and children close to firecrackers or powerful speaker systems.

Older adults, particularly those with age-related hearing loss, may be at greater risk of further hearing impairment. People with existing tinnitus, previous ear injuries, a history of ear surgery or other hearing conditions should also exercise caution. Those with hypertension or heart disease may be more susceptible to the effects of stress and sleep disruption. People with anxiety, post-traumatic stress or sensory sensitivities, including some individuals on the autism spectrum, may find sudden explosions particularly distressing. Pregnant women should also avoid exposure to extremely loud noise.

such as diyas, rangolis, festive food and music played at comfortable volumes.

Smartphone decibel-meter apps can provide rough estimates of environmental noise, but they may not accurately capture sudden explosive peaks. Calibrated sound-level meters are more reliable. If noise appears excessive or restrictions are being violated, residents can document the time and location, where safe, and contact the local police or relevant noise-control authorities.

Impact on animals

Not just humans, bursting of firecrackers during Diwali can also cause serious harm to animals, pets, and stray animals. They often experience fear, stress, and physical discomfort.

Animals, especially dogs and cats, have a much more sensitive sense of hearing than humans. The sudden, loud explosions can frighten them and cause anxiety, trembling, rapid breathing, and panic. "Some may even run away from their homes in fear, putting themselves at risk of accidents or becoming lost," says Vishakha Shukla, owner of Nawabi Tails, an animal rescue shelter based in Lucknow. As such, most zoos across the nation issue special regulations for Diwali and noise pollution etiquettes close to the zoo premises during the festival days — Chennai Crocodile Bank, Lucknow's Nawab Wajid Ali Shah Zoo and Dehradun Zoo, to name a few.

"Every year, thousands of animals and birds are left frightened, injured, and lost because of an increase in air and noise pollution associated with the holiday," as per advisories issued by Humane World for Animals (HWA), a global animal protection organisation. Since they have a far more acute sense of hearing than us; the noise of firecrackers has a terrifying effect on animals.

Hear It Out:
Firecrackers Can Damage Your Ears

पटाख़े सिर्फ़ साँस और जलने का ख़तरा नहीं – उनकी तेज़ आवाज़ कान की भीतरी कोशिकाओं को स्थायी नुक़सान पहुँचा सकती है; बच्चे, बुज़ुर्ग, गर्भवती महिलाएँ और पशु सबसे अधिक प्रभावित

Diwali health
दीवाली स्वास्थ्य

1 Why it's in news
चर्चा क्यों

- 7-yr-old girl died in **Balrampur**, allegedly from loud DJ music
  बालिका की मृत्यु
- DJ owner & operator **arrested**; police in-charge suspended
  गिरफ़्तारी
- **PILs** on noise before the High Court
  जनहित याचिकाएँ

2 Who is most at risk
सर्वाधिक जोखिम

- **Children** – shorter ear canals
  बच्चे
- **Older adults**, people with tinnitus or heart disease
  बुज़ुर्ग
- **Pregnant women**; people with anxiety or autism
  गर्भवती

3 What noise does | नुक़सान

- Kills **inner-ear hair cells** – often permanent
  हेयर सेल
- Can hit the **balance** (vestibular) system
  संतुलन
- A blast can **rupture the eardrum**
  कान का पर्दा

Firecrackers can damage your ears — in depth (1/2)

पटाख़े और कान — विस्तार से (1/2)

4 Beyond the ears
कानों से आगे

- Raises **heart rate & blood pressure**
  हृदय गति
- Long exposure linked to **hypertension**
  उच्च रक्तचाप
- Disturbs **sleep**
  नींद

5 Warning signs
चेतावनी संकेत

- **Ringing**, muffled hearing, ear pressure
  कान बजना
- Dizziness, **fluid or blood** from the ear
  चक्कर, रक्त
- **Sudden hearing loss** → see a doctor the same day
  तुरंत डॉक्टर

6 Don’ts | क्या न करें

- No **cotton buds** or objects in the ear
  कॉटन बड नहीं
- No **water, oil** or unprescribed drops
  तेल/पानी नहीं
- Keep the ear **dry** if eardrum may be torn
  कान सूखा रखें

Firecrackers can damage your ears — in depth (2/2)

पटाख़े और कान — विस्तार से (2/2)

7 A safer Diwali | सुरक्षित दीवाली

Keep distance
दूरी

From ignition point
पटाख़े से

→

Ear protection
ईयरप्लग

Plugs or muffs
ईयरमफ़

→

Shield kids
बच्चों को दूर

Supervise
निगरानी

→

Quieter joy
शांत उत्सव

Diyas, rangoli
दीये, रंगोली

8 Did you know? क्या आप जानते हैं?

- Dogs and cats hear **far better** than humans – blasts terrify them
  पशु
- Zoos like **Chennai Crocodile Bank** set Diwali noise rules
  चिड़ियाघर

Firecrackers can damage your ears — background (1/2)

पटाख़े और कान — पृष्ठभूमि (1/2)

9 Noise limits (Rules, 2000) ध्वनि सीमा

Zone क्षेत्र	Day / Night dB(A) दिन/रात
Industrial औद्योगिक	75 / 70
Commercial वाणिज्यिक	65 / 55
Residential आवासीय	55 / 45
Silence zone शांत क्षेत्र	50 / 40

10 The legal frame क़ानूनी ढाँचा

- Noise Rules made under the **Environment (Protection) Act, 1986**
  EPA 1986
- **Loudspeakers** barred 10 pm–6 am (open spaces)
  लाउडस्पीकर
- SC (2005): **no crackers 10 pm–6 am**
  सुप्रीम कोर्ट

11 Measuring sound ध्वनि मापन

- Decibel is a **log scale**: +10 dB = 10× intensity
  लघुगणकीय
- **dBA** weights sound like the human ear
  dBA
- WHO danger mark: impulse **140 dB** adults, **120 dB** children
  WHO

Firecrackers can damage your ears — background (2/2)

पटाख़े और कान — पृष्ठभूमि (2/2)

12 How we hear | हम कैसे सुनते हैं

Outer ear बाहरी कान	Eardrum कान का पर्दा	Ossicles अस्थियाँ	Cochlea → brain कॉक्लिया
Collects sound ध्वनि संग्रह	Vibrates कंपन	Malleus, incus, stapes तीन हड्डियाँ	Auditory nerve श्रवण तंत्रिका

13 Physics of sound | ध्वनि का भौतिकी

- Human hearing: **20 Hz–20 kHz**
  श्रव्य सीमा
- Speed in air ≈ **343 m/s**
  343 मी/से
- **Infrasound** (elephants) <20 Hz; **ultrasound** (bats) >20 kHz
  अपश्रव्य, पराश्रव्य

Firecrackers can damage your ears — Static GK

पटाख़े और कान — स्थैतिक सामान्य ज्ञान

14 Ear facts | कान के तथ्य

- **Stapes** – smallest bone in the body
  स्टेपीज़
- **Cochlea** – snail-shaped hearing organ
  कॉक्लिया
- **Eustachian tube** balances ear pressure
  यूस्टेशियन नली

15 Diwali across faiths विभिन्न परंपराएँ

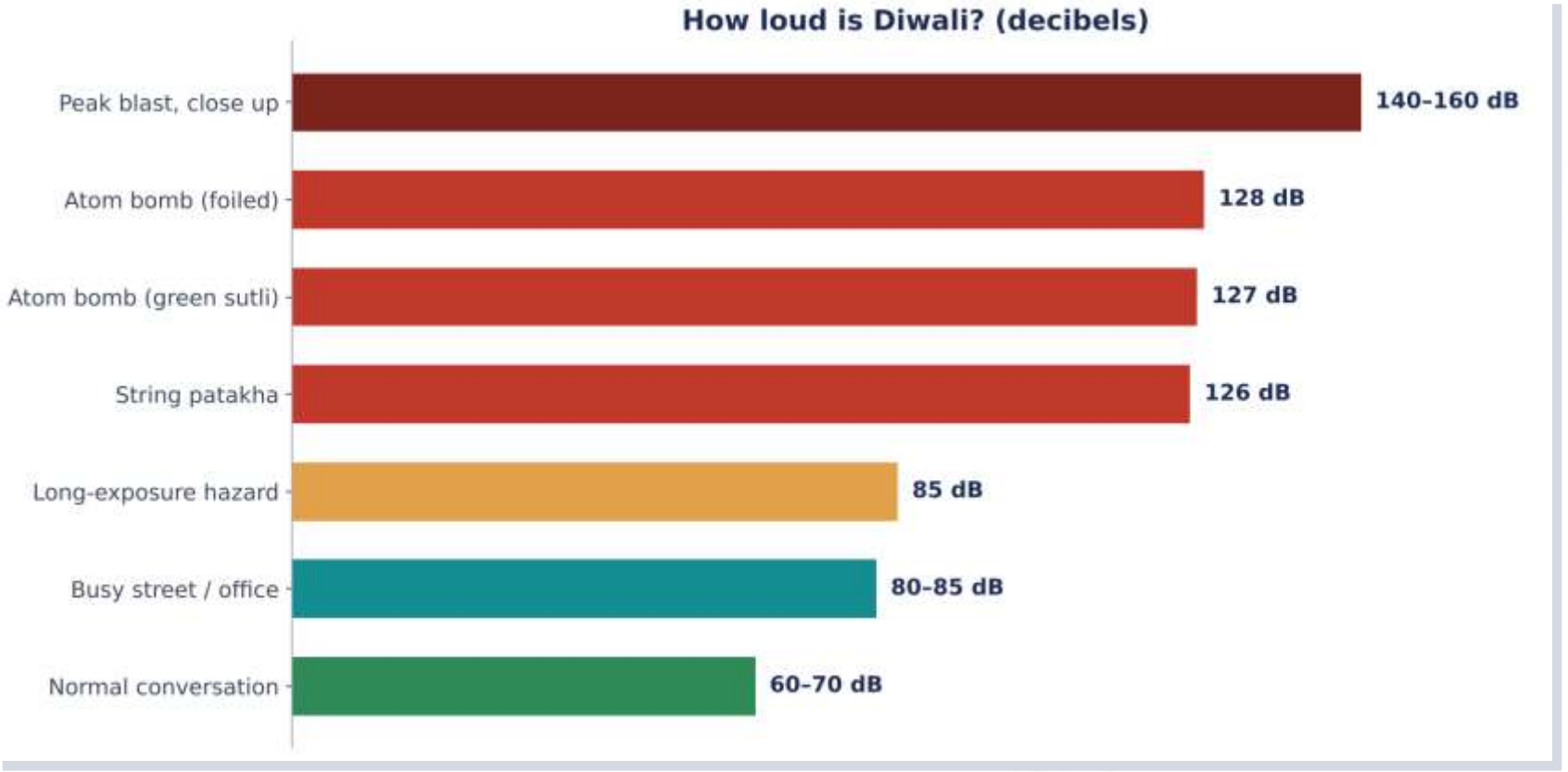
Faith परंपरा	Marks स्मृति
Hindu हिंदू	Ram's return to Ayodhya
Sikh सिख	Bandi Chhor Divas
Jain जैन	Mahavira's nirvana
Bengal बंगाल	Kali Puja

16 Pollution watchdogs प्रदूषण नियामक

- **CPCB** – set up 1974 (Water Act)
  CPCB
- **NGT** – 2010
  NGT
- **CAQM** – for NCR air quality (2021)
  CAQM

Firecrackers can damage your ears — Map & Diagram

पटाख़े और कान — मानचित्र व आरेख

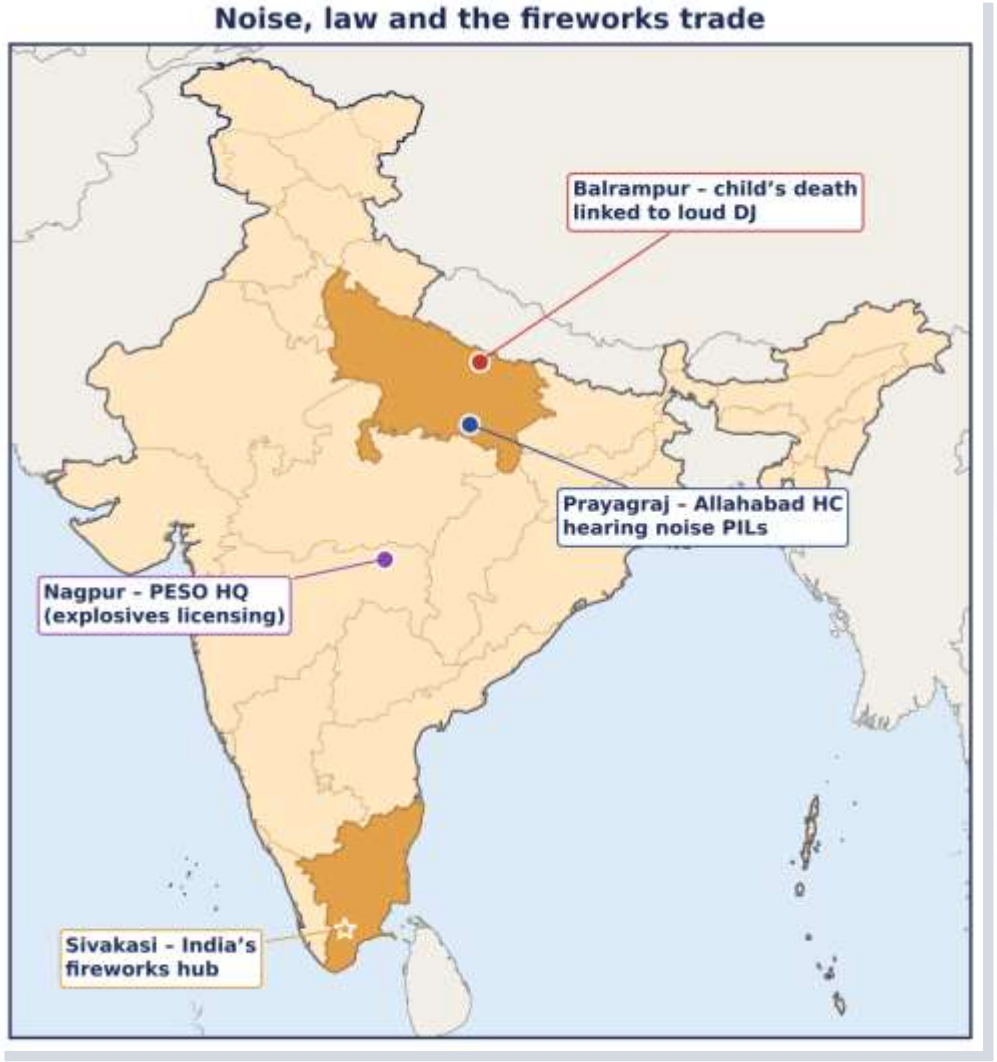


Read the visual
चित्र को समझें

- Crackers are about **60 dB louder** than normal talk
  60 dB अधिक
- Long exposure turns risky around **85 dB**
  85 dB
- Close-up peaks can hit **140–160 dB**
  चरम ध्वनि

Firecrackers can damage your ears — Map & Diagram

पटाख़े और कान — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Balrampur** (UP) – child's death linked to loud DJ
  बलरामपुर
- **Allahabad HC** is examining noise PILs
  इलाहाबाद HC
- **Sivakasi** (TN) – India's fireworks hub
  शिवकाशी
- **PESO, Nagpur** licenses explosives & fireworks
  PESO

| 2 November 2026

आज के समसामयिक मुद्दे — The Hindu • Indian Express • Financial Express — 5 articles + exam PYQs + MCQs + Myth Buster

1. **Navy's ₹80,000-cr next-gen destroyer project**
   नौसेना की विध्वंसक परियोजना

2. **Delhi bars non-BS-VI vehicles: 714 turned back on Day 1**
   दिल्ली प्रवेश प्रतिबंध

3. **India aims to double cruise traffic by 2029**
   क्रूज़ पर्यटन

4. **India's concert economy finds its rhythm**
   कॉन्सर्ट अर्थव्यवस्था

5. **New IAF chief Dixit unveils 'VAYU' vision**
   वायुसेना प्रमुख का 'वायु' विज़न

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IMPROVING REDRESSEDNESS

CJI flags growing pleas on slow HC proceedings

STATES » PAGE 3



RISING UNDER RECORDED

Commercial LPG rates hiked for third straight month

NEWS » PAGE 6



NEXT GENERATION PROGRAMME

Govt. clears plan for key warship project

NEWS » PAGE 4

VULNERABLE LOT

Unemployment falls but 'decent work' still scarce

Poor-quality jobs affect India's economic growth

EDITORIAL » PAGE 6



DAZZLING DISPLAY

Lakshya and Sindhu win Hylo Open titles

SPORT » PAGE 10

INSIDE



Iran says any new war with the U.S. could last longer

TEHRAN

Iran's Army warned on Sunday that any renewed war with the U.S. could last longer than the previous round of fighting, after President Donald Trump said he still had to "take care" of more targets. » PAGE 14



New chief of IAF pledges to boost combat readiness

NEW DELHI

Newly appointed Air Chief Marshal Ashutosh Dixit on Sunday outlined his priorities under the acronym "SAVE", focusing on vigilance and readiness, aatmanirbharta (self-reliance), innovation and unity of effort. » PAGE 4

'Chorten no. 76' dedicated to PM Modi in Bhutan

GELEPHU

Bhutan King Jigme Khesar Namgyel Wangchuck on Sunday dedicated one of the 108 Buddhist stupas erected in a new-face construction feat to Prime Minister Narendra Modi as a mark of appreciation for India's support for the country's Gelephu Mindfulness City project. » PAGE 4

Promoter of illegal betting app extradited

RAIPUR

Saurabh Chandrakar, one of the promoters of the illegal betting app Mahadev Online Book pegged at ₹6,000 crore, has been extradited to India from Dubai, a CBI spokesperson said on Sunday. » PAGE 4



Bengaluru poll rolls riddled with errors after SIR

BENGALURU

Plain names appearing as "XXX" or "????/94" to missing relatives' names and entries containing single letters, a mail like 'or mom', '.', serious in the final electoral rolls for Bengaluru are riddled with errors. » PAGE 3

CEC stole citizens' voice, will do time: Rahul

- Large crowd marches with leaders of the INDIA bloc during demonstration against 'vote theft'
- Rahul Gandhi calls for ouster of poll body chief; outlines a post-Modi vision rooted in harmony
- Ramlila Maidan has turned into 'democracy's Haldighati', says Samajwadi Party chief

Srikkanth K. Nair
NEW DELHI

Accusing Chief Election Commissioner (CEC) Gyanesh Kumar of committing "treason" by stealing the votes of citizens", the Leader of the Opposition in the Lok Sabha, Rahul Gandhi, on Sunday said the poll official would be removed from office. He would "go to jail", Mr. Gandhi said.

Mr. Gandhi was speaking at a rally by the Indian National Developmental, Inclusive Alliance (INDIA) at Ramlila Maidan here, which saw participation from across the country with crowds marching with flowers and waving flags spilling beyond the ground's boundaries.

"The scale of today's uprising has never before been seen in Delhi," Congress general secretary K.C. Venugopal said in a post on X.

Mr. Gandhi's 20-minute-long speech combined aggressive posturing towards the Union government with a promise of what he described as a post-Narendra Modi vision of India that would replace the politics of hatred with the politics of harmony.

Responding to Union Home Minister Amit Shah's remarks that Prime Minister Modi is "not going anywhere", Mr. Gandhi said that neither the Prime Minister nor the Union Home Minister would be allowed to "go anywhere" even if they wanted to.

'2024 mandate illegal'

He said "vote theft" had been happening in the country for years, claiming several Assembly elections, including those in Madhya Pradesh, Haryana, Chhattisgarh, and Maharashtra, were stolen through the "additions" and "deletions" of voters.

The Congress leader alleged that the 2024 mandate for the Modi government was "illegal". After the 2024 Lok Sabha elections, Mr. Gandhi said 350 million voters were surveyed — about 10% of the total electorate, or one in every seven voters. He pointed out that the difference in vote share between the BJP-led coalition and the INDIA bloc was three percentage points.

Rashtriya Janata Dal leader Tejashwi Yadav said that while Ramlila Maidan was traditionally used to stage the Ramayana, today the Opposition had organised a "Mahabharata for those who steal votes".

Samajwadi Party chief Akhilesh Yadav described Ramlila Maidan as the "Haldighati of democracy" and said the massive crowd indicated that change was in the offing.

"Those who came to power through CEC will be ousted from there. And 'UP, nahin to' (people)", who are good at welcoming, are better at giving send-offs," the former Uttar Pradesh Chief Minister said.

Former West Bengal Chief Minister Mamata Banerjee described the SIR exercise as "special intensive relief" for the BJP and said her team has been a victim of it.

"Amit Shah and Narendra Modi is not going anywhere... even if he wants to go, we will not let him. Modi ji and Shah Ji, understand this: after Gyanesh Kumar, we will stand against you. Don't forget that for the vote chori (vote theft) you have done, there will be legal action against you," Mr. Gandhi said.



United protest: INDIA bloc leaders at Ramlila Maidan in Delhi on Sunday during a rally against alleged electoral irregularities. SHAIKH SAMEER KHAN

"This is not an ordinary theft, it is not someone stealing something small from a shop... This is a theft of every citizen's voice and expression. In legal parlance, this is called a 'heinous of rare' case, this is called treason," Mr. Gandhi said, alleging that Mr. Modi and Mr. Shah would not have become Prime Minister and Home Minister without Gyanesh Kumar.

Using the metaphor of *"Dhai ji ki barsat"*, where all kinds of creatures are allowed to participate, Mr. Gandhi said India has to be inclusive, where a farmer enjoys the fruits of his labour and where a student studying for 18 hours gets employment. Naming industrialist Gautam Adani, Mr. Gandhi said the Opposition will not allow all resources to be owned by a single person. "The first step to bring the nation back on track is to remove Gyanesh Kumar," he said.

"Narendra Modi ji, Amit Shah ji, Gyanesh Kumar ji, you have attacked the country's soul, our constitution, our democracy; we are not willing to accept this," he said, adding that none of the three in his custody. He underscored that the voice of every Indian was more important to him than religion.

Stressing the need for a politics of harmony, Mr. Gandhi said: "We have to erase hatred. Narendra Modi, Amit Shah, and the RSS have spread hatred. It is tearing the nation and our nation's soul".

The rally was attended by senior Opposition leaders, including Congress president Mallikarjun Kharge, Congress Parliamentary Party Chairperson Sonia Gandhi, National Conference patriarch Farooq Abdullah, PDP leader Mehbooba Mufti, CPI(M) general secretary M.A. Baby, CPI general secretary D. Raja, CPI(ML) general secretary Dipankar Bhattacharya, Shiv Sena (UBT)'s Sanjay Raut, NCP (SP)'s Supriya Sule, and others.

GAINS INFLUENCING BJP
» PAGE 8
RELATED REPORTS ON
» PAGE 9

Stage on fire



A performer breathes out a plume of flames during an act in Chennai on Sunday to mark "Tamil Nadu Day". ARUN SANKAR/AFP/GETTY IMAGES

Gross GST collections rise 23% to over ₹2.31 lakh cr. in Oct. on festive demand

Press Trust of India
NEW DELHI

Goods and Services Tax collections jumped 23% year-on-year in the second-highest level of over ₹2.31 lakh crore in October as festive buying boosted domestic demand, according to government data released on Sunday.

October is the second consecutive month when monthly gross GST crossed ₹2 lakh crore, and second only to the record of about ₹2.44 lakh crore mop-up in April. The 22.9% year-on-year growth clocked in the month is the fastest recorded pace of gross mop-up in the fiscal year. Gross GST collections from domestic transactions (services + imports of goods) in October grew 30% to over ₹2.09 lakh crore, and revenues from imports climbed 42% to ₹72,246 crore.



Tension is the second-straight month when monthly gross GST crossed ₹2 lakh crore.

The ₹2.31 lakh crore collection includes Central GST mop-up of 42,035 crore, State GST of ₹51,380 crore and Integrated GST of over ₹1.17 lakh crore, data showed. GST refunds increased 6.3% year-on-year to ₹27,934 crore in October. After adjusting for refunds, net GST collection rose 26% to over ₹2.03 lakh crore in October.

In April-October, gross GST collection grew 11.2% to over ₹14.77 lakh crore. Net collections rose 13% to over ₹12.09 lakh crore.

Manoj Menon, Grant Thornton Bharat, Partner and Tax Controversy Management Leader, said October collections capture the festive-season demand cycle, which typically brings higher consumer spending, retail activity and movement of goods across sectors.

"The focus now should be on sustaining domestic revenue growth and ensuring that the benefits of GST rate rationalisation translate into compliance, smoother input tax credit flows and faster refunds for businesses," Mr. Menon said.

EY India Tax Partner, Saurabh Agarwal, said the GST collections reflect the continued resilience of the Indian economy despite global headwinds.

Andhra braces for second cyclone within a week; five districts placed on red alert

Telkapalli Jayanand
VISAKHAPATNAM

Barely a week after being battered by "very severe" Cyclone Amufi, Andhra Pradesh is bracing for Cyclone Montha, expected to make landfall on Tuesday, with five districts put on red alert.

The weather system over the Bay of Bengal intensified into a cyclonic storm and was centred at around 250 km east of Chennai on Sunday night.

The storm, which is likely to bring heavy rainfall to several Tamil Nadu districts as well, is expected to move west-northwestward and intensify into a severe cyclonic storm by Monday morning.

Between Monday night and early hours of Tuesday, it is likely to cross into Andhra Pradesh with wind speeds gusting up to 120 km per hour between Bapatla and Narsapur.

Andhra Pradesh Chief Minister N. Chandrababu Naidu, who cancelled his visit to Delhi, held a review meeting on Sunday and directed officials to step up preparedness to tackle the possible impact of the storm. Odisha, which witnessed multiple landfalls during Cyclone Amufi, is also bracing for the impact of Montha, with authorities saying southern districts were likely to receive heavy rainfall.

Cyclone Montha comes at a time when Andhra Pradesh is just beginning to recover from the impact of Cyclone Amufi, a storm that killed five people and submerged crops in more than 3.5 lakh hectares of land. It also damaged about 1,425 km of roads and brought down some 18,000 electric poles. The State government puts its losses at ₹6,000 crore, and officials now have little time to prepare for the next storm.

As many as 1,600 medical teams and 160 relief camps have been prepared in Andhra Pradesh districts likely to be affected by the latest cyclone, the Chief Minister's office said in a post on X.



Calm before the storm: The cyclone is likely to bring heavy rain to Tamil Nadu and Odisha as well. K. VIJAYENDRA

Red alert

While it was the northern part of Andhra Pradesh that bore the brunt last week, this time, the central and southern coastal parts of the State are likely to be affected, according to the Andhra Pradesh State Disaster Management Authority.

"The IMD has put five districts in the State — SPSR Nellore, Prakasam, Guntur, Bapatla, and Krishna — on red alert for November 3.

In Tamil Nadu, for the 24-hour period from 8.30 a.m. on Monday, heavy to very heavy rain is likely at isolated places over Chennai and Tiruvallur districts. Heavy rain is also likely at isolated places over Chengalpattu, Kancheepuram, Ranipet, Vellore and Nilgiris districts.

In Odisha, the State government has identified 192 landslide-prone locations in Gajapati district alone. During Cyclone Amufi, five people were killed in separate landslides in the State.

Addressing a press conference, Special Relief Commissioner Rajesh Prabhakar Patil warned that the situation could worsen as the ground was already saturated and heavy rain was forecast in southern Odisha. "We have directed district collectors to evacuate people from vulnerable areas," he said.

(With inputs from Deepa Ramakrishnan in Chennai and Jaisyamohan Barik in Bhubaneswar)


4

News

Varsity orders probe into molestation complaint

Restoring combat strength among priorities: IAF chief

Air Chief Marshal Ajit Kumar Dixit lays stress on vigilance and operational readiness, self-reliance, strategy, and unity of effort across the tri-services; highlights importance of Air Force personnel

2

of Delhi entry curbs: vehicles turned back, 38 impounded, say police

1

to launch ₹80,000-cr. warship project

India's coal imports fall 5.8% amid higher domestic output

Chandigarh will be India's first drug-free city, says Shah

Mortal remains of all chopper crash victims recovered, says govt.

Helicopter operators threaten to halt Char Dham services over 2-pilot rule

Two MLAs, including ex-Minister, quit AAP ahead of Punjab polls

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पृष्ठ 4 · समाचार

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Navy's ₹80,000-cr destroyer project | नौसेना**

2 **Delhi entry curbs, Day 1 | दिल्ली प्रवेश प्रतिबंध**

Navy's ₹80,000-cr next-gen destroyer project

नौसेना की विध्वंसक परियोजना

Navy to launch ₹80,000-cr. warship project

Saurabh Trivedi
NEW DELHI

The government has given a major push to the Indian Navy's next-generation destroyer programme amid the growing maritime security challenges posed by China and Pakistan, both of which are strengthening their own underwater warfare capabilities.

The Defence Acquisition Council (DAC), chaired by Defence Minister Rajnath Singh, had recently accorded in-principle approval to futuristic warships under Project 18A.

The delivery of the warships is expected to begin five to 10 years after the contract is signed, given the complexity and scale of the programme.

A senior Defence Ministry official confirmed the development.

The proposed programme, estimated to cost around ₹80,000 crore, aims to develop a new generation of stealth-guided missile destroyers equipped with advanced weapons, sensors, and technologies, the official said.

The warships are expected to have nearly 75% indigenous content, with both defence public sector undertakings (DPSUs) and private sector companies eligible to participate in the competitive bidding process, the official added.

The programme assumes significance as China continues to expand its naval presence in the Indian Ocean Region and enhance its submarine fleet, while Pakistan is also strengthening its underwater warfare capabilities with the induction of advanced submarines.

The evolving security environment has underscored the need for India to strengthen its surface combat fleet and maintain a credible maritime deterrence across the Indian Ocean Region.



The next-generation destroyers are expected to substantially enhance multi-domain combat capabilities. REUTERS

Futuristic capabilities

Several existing destroyers of the Indian Navy are due for decommissioning in coming years, making the induction of advanced frontline surface combatants essential to maintaining the fleet's operational strength, the official added.

The futuristic destroyers, to be designed by the Navy's Warship Design Bureau, are expected to feature significantly more advanced systems than the Visakhapatnam-class destroyers.

These warships are likely to have enhanced firepower, sophisticated surveillance sensors, improved air defence systems, and advanced anti-submarine warfare capabilities, providing the Navy with greater operational flexibility against emerging maritime threats.

The Indian Navy currently operates around 12 or 13 relatively new guided-missile destroyers, which form the backbone of its surface combat fleet and provide capabilities across air defence, anti-surface warfare, and anti-submarine operations.

These include the Visakhapatnam-class, Kolkata-class, and Delhi-class destroyers.

The existing warships are equipped with an array of advanced weapon systems, including BrahMos supersonic cruise missiles, surface-to-air missiles, naval guns, close-in weapon systems, and anti-submarine warfare equipment.

Navy to Launch ₹80,000-cr Next-Gen Destroyer Project

रक्षा अधिग्रहण परिषद ने प्रोजेक्ट 18A के तहत अगली पीढ़ी के स्टेल्थ गाइडेड-मिसाइल विध्वंसकों को सैद्धांतिक मंज़ूरी दी – चीन और पाकिस्तान की बढ़ती समुद्री क्षमता के बीच हिंद महासागर में प्रतिरोधक क्षमता मज़बूत करने का लक्ष्य

Project 18A
प्रोजेक्ट 18A

1 The project | परियोजना

- **Project 18A** – next-gen **stealth destroyers**
  स्टेल्थ विध्वंसक
- Cost around **₹80,000 crore**
  ₹80,000 करोड़
- In-principle nod from the **DAC** (Rajnath Singh)
  DAC मंज़ूरी

2 Key facts | मुख्य तथ्य

~75% Indigenous content स्वदेशी	**5–10 yrs** Delivery after contract आपूर्ति
12–13 Destroyers in service मौजूदा	**WDB** Navy's Warship Design Bureau डिज़ाइन

3 Why now | अभी क्यों

- **China** expanding in the IOR & its submarine fleet
  चीन
- **Pakistan** inducting advanced submarines
  पाकिस्तान
- Old destroyers due for **decommissioning**
  पुराने जहाज़

Navy's ₹80,000-cr next-gen destroyer project — in depth (1/2)

नौसेना की विध्वंसक परियोजना — विस्तार से (1/2)

4 Expected features संभावित क्षमताएँ

- More **firepower** & sophisticated **sensors**
  मारक क्षमता
- Better **air defence**
  वायु रक्षा
- Advanced **anti-submarine warfare**
  पनडुब्बी-रोधी

5 Today's arsenal मौजूदा हथियार

- **BrahMos** supersonic cruise missiles
  ब्रह्मोस
- **Surface-to-air** missiles
  सतह-से-हवा
- Naval guns & **close-in weapon systems**
  CIWS

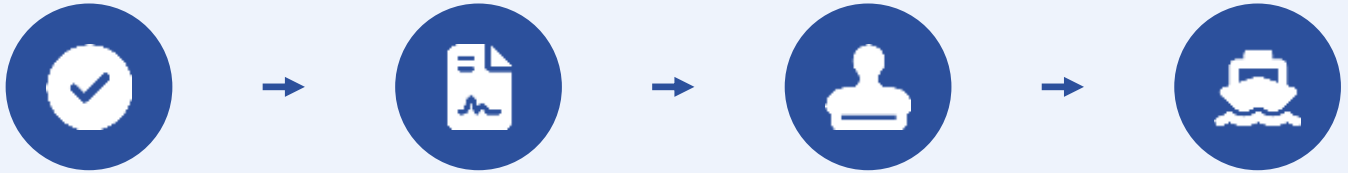
6 Warship types युद्धपोत प्रकार

- **Destroyer** – large, multi-role fleet escort
  विध्वंसक
- **Frigate** – smaller, escort & ASW
  फ़्रिगेट
- **Corvette** – smallest, coastal
  कार्वेट

Navy's ₹80,000-cr next-gen destroyer project — in depth (2/2)

नौसेना की विध्वंसक परियोजना — विस्तार से (2/2)

7 How a big defence buy moves | रक्षा ख़रीद प्रक्रिया



By DAC	DPSU + private	CCS approval	5–10 yrs later
DAC	सार्वजनिक/निजी	CCS	बाद में

8 Did you know? क्या आप जानते हैं?

- **BrahMos** = **Brahma**putra + **Mos**kva rivers
  नाम का अर्थ
- INSV **Tarini**: women officers sailed round the world (2024–25)
  नाविका सागर परिक्रमा

Navy's ₹80,000-cr next-gen destroyer project — background (1/2)

नौसेना की विध्वंसक परियोजना — पृष्ठभूमि (1/2)

9 Navy's big projects प्रमुख परियोजनाएँ

Project परियोजना	What क्या
P-75 P-75	6 Scorpene (Kalvari) subs
P-75I P-75I	6 AIP submarines
P-17A P-17A	7 Nilgiri-class frigates
P-15B P-15B	4 Visakhapatnam destroyers

10 Defence Acquisition Council DAC

- Chaired by the **Defence Minister**
  रक्षा मंत्री
- Set up in **2001** after post-Kargil reforms
  2001
- Clears buys under **DAP 2020**
  DAP 2020

11 Indian Ocean contest हिंद महासागर

- China's first overseas base: **Djibouti** (2017)
  जिबूती
- "**String of Pearls**" worry
  मोतियों की माला
- India's **SAGAR** (2015) → **MAHASAGAR** (2025)
  सागर/महासागर

Navy's ₹80,000-cr next-gen destroyer project — background (2/2)

नौसेना की विध्वंसक परियोजना — पृष्ठभूमि (2/2)

12 Navy commands | नौसेना कमान

Western पश्चिमी	Eastern पूर्वी	Southern दक्षिणी	A&N Command अंडमान
Mumbai मुंबई	Visakhapatnam विशाखापत्तनम	Kochi (training) कोच्चि	Tri-service, 2001 त्रि-सेवा

13 Make in India defence | स्वदेशी रक्षा

- **Positive indigenisation lists** ban some imports
  स्वदेशीकरण सूची
- Record defence exports: **₹23,622 cr** (FY25)
  निर्यात
- **Srijan** portal for local suppliers
  सृजन

Navy's ₹80,000-cr next-gen destroyer project — Static GK

नौसेना की विध्वंसक परियोजना — स्थैतिक सामान्य ज्ञान

14 Navy facts | नौसेना तथ्य

Fact तथ्य	Detail विवरण
Navy Day **नौसेना दिवस**	4 Dec (Op Trident, 1971)
Motto **आदर्श वाक्य**	Sham No Varunah
First Indian chief **पहले भारतीय प्रमुख**	V-Adm R.D. Katari (1958)
New ensign **नया ध्वज**	Sept 2022

15 Naval exercises
नौसैनिक अभ्यास

- **Malabar** – with US, Japan, Australia
  मालाबार
- **Varuna** – France; **JIMEX** – Japan
  वरुण, जिमेक्स
- **SIMBEX** – Singapore
  सिम्बेक्स

16 Missile family | मिसाइलें

- **Agni, Prithvi** – surface-to-surface
  अग्नि, पृथ्वी
- **Akash** – surface-to-air
  आकाश
- **Nag** – anti-tank guided missile
  नाग

Navy's ₹80,000-cr next-gen destroyer project — Map & Diagram

नौसेना की विध्वंसक परियोजना — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Each class an **upgrade** on the last
  क्रमिक उन्नयन
- P-15B ships carry **city names** – Visakhapatnam, Mormugao, Imphal, Surat
  शहरों के नाम
- P-18A will go **beyond** the Visakhapatnam class
  अगली पीढ़ी

Navy's ₹80,000-cr next-gen destroyer project — Map & Diagram

नौसेना की विध्वंसक परियोजना — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Mazagon Dock** (Mumbai) builds destroyers & submarines
  मझगांव डॉक
- **GRSE** (Kolkata) – frigates, corvettes
  GRSE
- **Cochin Shipyard** built **INS Vikrant**
  कोचीन शिपयार्ड
- **Hindustan Shipyard** – Visakhapatnam
  हिंदुस्तान शिपयार्ड

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1

दिल्ली प्रवेश प्रतिबंध

Day 1 of Delhi entry curbs: 714 vehicles turned back, 38 impounded, say police

Shrimansi Kaushik
NEW DELHI

The Delhi government's time-bound measures to curb winter air pollution came into force on Sunday, with non-Delhi-registered vehicles not meeting BS-VI emission norms being denied entry at the borders. The enforcement led to long traffic jams along Delhi-Gurugram routes.

The entry of non-BS-VI vehicles registered outside Delhi has been barred till January 31. Only BS-VI-compliant vehicles with valid PUC certificates, CNG vehicles and e-vehicles will be allowed into the city during this period while trucks will be diverted via expressways.

10 challans issued

Joint Commissioner of Police (Traffic) Sanjay Tyagi said, "From 12 a.m. to 8 p.m., 7,279 vehicles were checked. Of these, 714 non-destined vehicles were turned away. At least 10 were issued challans for non-compliance with restrictions and 38 end-of-life vehicles were impounded."

According to Traffic Police data, of the vehicles checked, 6,285 were checked in north Delhi, including the border areas of Singhu and Auchandi. A total of 445 vehicles at checkpoints along these areas were turned away.



Police check a vehicle at the Ghazipur border in New Delhi. PTI

Major restrictions

All major borders saw heavy deployment and checkposts. Despite it being a Sunday, traffic snarls were reported at multiple entry/exit points as vehicular movement slowed down to a crawl.

"I have a BS-IV bike and because of the restrictions, I cannot take rides from Delhi," said Hamad, a gig worker. "I have had to change routes because of that and ply only around the borders, in Noida and Faridabad," he added.

For those entering Delhi through the Sirhaul and Kapashera borders, the restrictions led to traffic jams from 10 a.m.

"Besides commuters, we are also asking non-destined vehicles to use peripheral expressways and outer Delhi roads. A lot of goods-carrying trucks were diverted," said an officer at the Sirhaul checkpoint.

The enforcement drive was carried out by multiple agencies. "We have been told to ensure that no vehicle without proper compliance is allowed to enter the city. Most vehicles are new. Only some have been noted to be older vehicles and they are being asked to go back," said Assistant Sub-Inspector Diwan Singh from the Transport Department, who was deployed at the Delhi-Noida border at Kalindi Kunj.

"We have intercepted nearly 50-60 vehicles since morning and sent those back," said a constable at Kalindi Kunj.

Day 1 of Delhi Entry Curbs:
714 Vehicles Turned Back

शीतकालीन प्रदूषण रोकने के लिए दिल्ली सरकार के उपाय लागू – बाहर पंजीकृत गैर-BS-VI वाहनों का प्रवेश 31 जनवरी तक बंद; पहले दिन 7,279 वाहनों की जाँच, 714 लौटाए गए, 38 पुराने वाहन ज़ब्त

Winter smog
सर्दियों का स्मॉग

1 The rule | नियम

- Outside **non-BS-VI** vehicles barred till **31 Jan**
  31 जनवरी तक
- Part of **time-bound winter** measures
  शीतकालीन उपाय
- Came into force on **1 November**
  1 नवंबर से

2 Ground impact ज़मीनी असर

- Snarls at many borders **despite a Sunday**
  जाम
- Gig worker with a **BS-IV bike** limited to Noida, Faridabad
  गिग श्रमिक
- Long jams on **Delhi–Gurugram** routes
  दिल्ली–गुरुग्राम

3 Who enforced it | अमल

- **Traffic Police** – Jt CP Sanjay Tyagi
  यातायात पुलिस
- **Transport Department** teams
  परिवहन विभाग
- Heavy deployment at **all major borders**
  सीमाओं पर तैनाती

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — in depth (1/2)

दिल्ली प्रवेश प्रतिबंध — विस्तार से (1/2)

4 What is BS-VI BS-VI क्या है

- **Bharat Stage** norms, modelled on **Euro** norms
  भारत स्टेज
- Nationwide from **1 April 2020**
  2020
- India **skipped BS-V** entirely
  BS-V छोड़ा

5 BS-IV vs BS-VI | अंतर

- Fuel sulphur **50 → 10 ppm**
  सल्फ़र
- Diesel **NOx** cut by ~68%
  NOx
- Diesel **particulates** cut by ~80%
  कण

6 End-of-life vehicles पुराने वाहन

- Delhi: **10-yr diesel, 15-yr petrol** limit (NGT)
  आयु सीमा
- **Vehicle Scrappage Policy**, 2021
  स्क्रैपेज नीति
- Such vehicles are **impounded** on the road
  ज़ब्ती

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — in depth (2/2)

दिल्ली प्रवेश प्रतिबंध — विस्तार से (2/2)

7 Why Delhi chokes in winter | सर्दियों में प्रदूषण

Stubble smoke
पराली
Punjab, Haryana
पड़ोसी राज्य

→

Still air
स्थिर हवा
Inversion
प्रतिलोमन

→

Local sources
स्थानीय
Vehicles, dust
वाहन, धूल

→

GRAP
ग्रैप
Staged curbs
चरणबद्ध

8 Did you know? क्या आप जानते हैं?

- Driving without a valid **PUC** can cost **₹10,000** (MV Act)
  PUC जुर्माना
- Delhi's first **odd-even** scheme ran in **Jan 2016**
  ऑड-ईवन

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — background (1/2)

दिल्ली प्रवेश प्रतिबंध — पृष्ठभूमि (1/2)

9 GRAP stages | ग्रैप चरण

Stage चरण	AQI AQI
I – Poor ख़राब	201–300
II – Very Poor बहुत ख़राब	301–400
III – Severe गंभीर	401–450
IV – Severe+ अति गंभीर	Above 450

10 CAQM | वायु गुणवत्ता आयोग

- For **NCR & adjoining areas**; Act of **2021**
  2021
- Replaced the old **EPCA**
  EPCA
- Issues **binding directions**
  बाध्यकारी निर्देश

11 AQI basics | AQI

- National AQI launched in **2014**
  2014
- Tracks **8 pollutants**
  8 प्रदूषक
- **6 categories** – Good to Severe
  6 श्रेणियाँ

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — background (2/2)

दिल्ली प्रवेश प्रतिबंध — पृष्ठभूमि (2/2)

12 Bharat Stage journey | भारत स्टेज यात्रा

BS-I BS-I	BS-III BS-III	BS-IV BS-IV	BS-VI BS-VI
2000 2000	2010 (cities) 2010	2017 nationwide 2017	2020 2020

13 Clean-mobility push
स्वच्छ परिवहन

- **PM E-DRIVE** scheme (2024)
  पीएम ई-ड्राइव
- Earlier **FAME-II** for EVs
  फ़ेम-II
- **E20** petrol rolled out (2025)
  E20

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — Static GK

दिल्ली प्रवेश प्रतिबंध — स्थैतिक सामान्य ज्ञान

14 Delhi facts | दिल्ली

Fact तथ्य	Detail विवरण
Special status **विशेष दर्जा**	Art 239AA (69th Amdt)
River **नदी**	Yamuna
NCR Planning Board **NCR बोर्ड**	1985
Administrator **प्रशासक**	Lieutenant Governor

15 Key pollutants
प्रमुख प्रदूषक

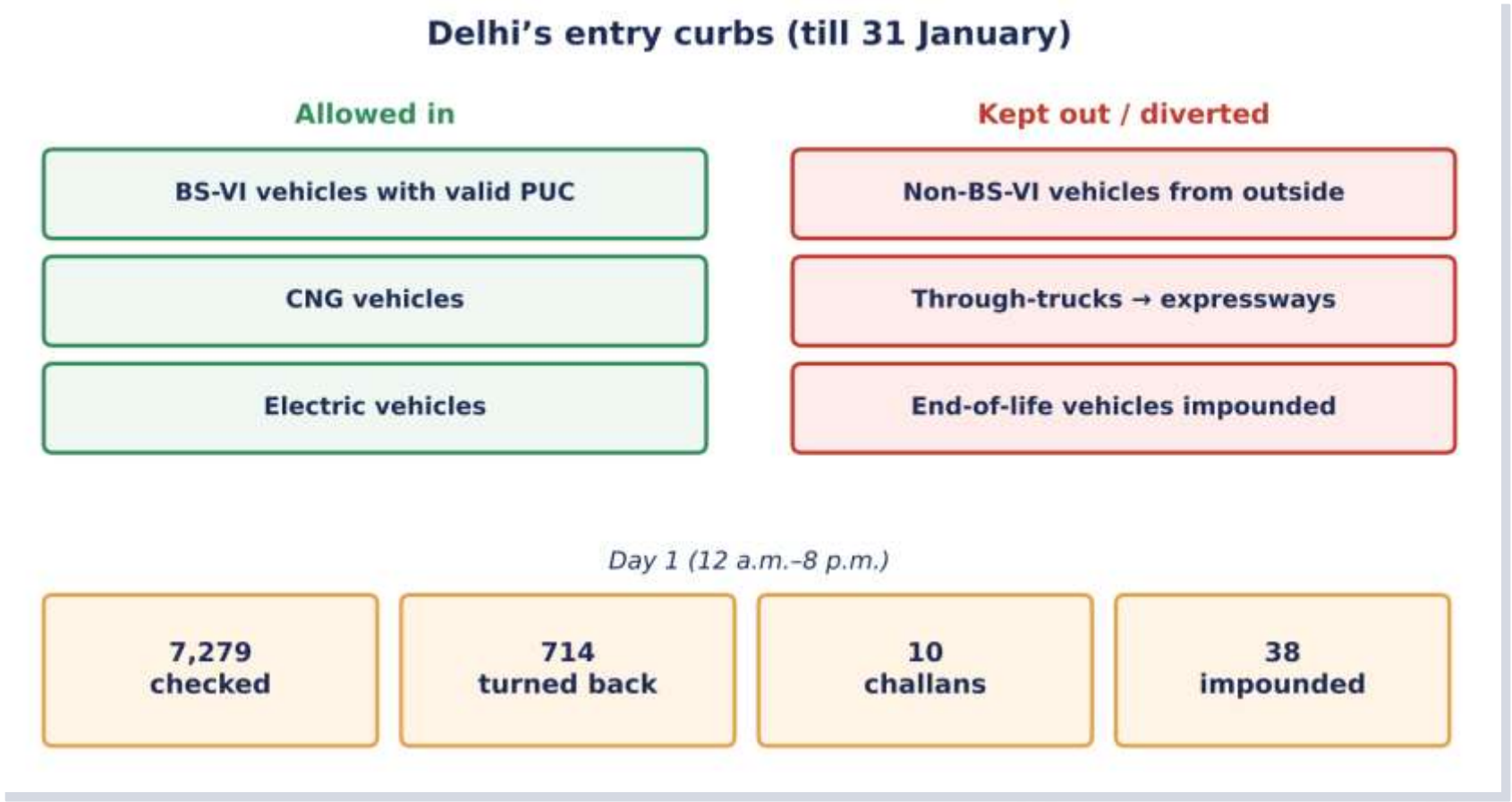
- **PM2.5** – reaches deep into lungs & blood
  PM2.5
- **NO_2** – mainly vehicles; **SO_2** – coal
  NO_2, SO_2
- Ground-level **ozone** – forms in sunlight
  ओज़ोन

16 Green laws
पर्यावरण क़ानून

- **Air (Prevention & Control of Pollution) Act**, 1981
  वायु अधिनियम
- **Environment (Protection) Act**, 1986
  EPA
- **Motor Vehicles (Amendment) Act**, 2019
  MV Act

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — Map & Diagram

दिल्ली प्रवेश प्रतिबंध — मानचित्र व आरेख

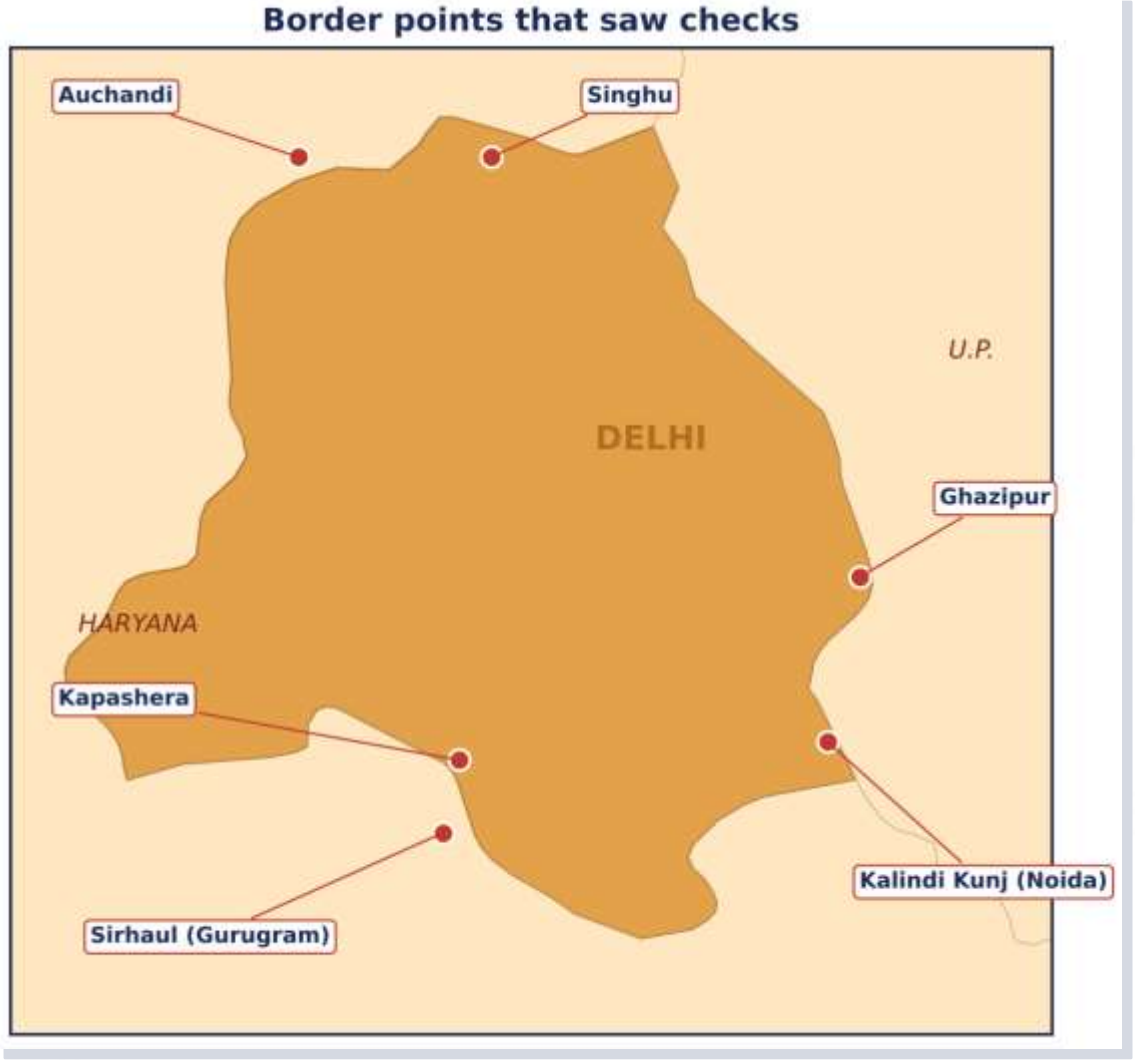


Read the visual
चित्र को समझें

- About **1 in 10** checked vehicles turned back
  10 में 1
- Clean fuels (**CNG, EV**) are exempt
  स्वच्छ ईंधन छूट
- Through-traffic pushed to **peripheral expressways**
  बाहरी एक्सप्रेसवे

Delhi bars non-BS-VI vehicles: 714 turned back on Day 1 — Map & Diagram

दिल्ली प्रवेश प्रतिबंध — मानचित्र व आरेख



Read the visual
चित्र को समझें

- North borders (**Singhu, Auchandi**): 6,285 checked, 445 turned back
  उत्तरी सीमा
- **Sirhaul, Kapashera** jammed from 10 a.m.
  जाम
- **Kalindi Kunj**: 50–60 vehicles sent back by morning
  कालिंदी कुंज


Business

Serving engineered precision on a gourmet plate

1

ers, ports mull expansion as India targets doubling cruise traffic by 2029

2

's concert economy finds rhythm of growth

Age versus agility: Why business needs both sides of the beat

THE HINDU • 2 NOV 2026

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Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Doubling cruise traffic by 2029 | क्रूज़ पर्यटन**

2 **India's concert economy | कॉन्सर्ट अर्थव्यवस्था**

India aims to double cruise traffic by 2029

क्रूज़ पर्यटन

Liners, ports mull expansion as India targets doubling cruise traffic by 2029

In FY26 India's 9 ports handled 212 ship calls, 4.62 lakh passengers; domestic cruises contributed to 78% of ship calls, over 90% of traffic. Mumbai handled 45% of ship calls. 52% of passengers from 8 international ship calls last season. Mumbai port is seeing just five this year on geopolitics

NEWS ANALYSIS

Aneesh Phadnis

The Centre's aim to double cruise passenger traffic to one million by FY29 remains on course with the development of terminals and addition of new vessels. While foreign ships are making fewer port calls this season due to the ongoing tensions in the Red Sea, domestic business is gaining ground.

Cordelia Cruises inducted its second vessel, Cordelia Sky, in late October and is due to receive third vessel next year. The firm is eyeing more additions.

"While it's too early to provide specific details at this point, our direction remains clear. Progressively build capacity in line with the growth of the Indian cruise market," Jurgen Bailom, CEO of Cordelia Cruises, said during the second quarter conference call.

"Demand is not an issue. With Cordelia's three cruise ships we should be able to meet our target of one million annual passengers by FY29," said Rajiv Jalota, former chairman of Indian Ports Association.

He urged cruise operators and tourism departments to develop tourist circuits to attract more foreign visitors. "This will make up for the shortfall as fewer foreign cruise liners are calling at Indian ports. Another opportunity is to develop cruise itineraries covering south India and Southeast Asia and between India and West Asia," he added.



Ease of sailing: Companies demand favourable tax norms. FOR REPRESENTATIVE PURPOSE ONLY

> According to government officials steps are underway not only to expand facilities but also ease regulations, thereby addressing the concerns of the industry

Retail, F&B offerings

Port authorities are expanding facilities and introducing new offerings to attract more passengers and grow revenue. While Chennai, Mumbai and Visakhapatnam added modern cruise terminals in the past three years, work is underway for one at Mormugao port in Goa.

Developed at a cost of ₹185 crore, the 13-acre cruise terminal in Goa will have check-in counters, lounges, and retail stores and food courts. It can berth four vessels simultaneously and provide Ro-Ro services too. "While the domestic cruise terminal is targeted for completion by June 2027, the entire project is expected to completed by December 2027," Mormugao Port Authority said.

Cochin Port, now a home port for Cordelia Empress, plans to build a mega cruise terminal and has appointed a consultant to prepare a detailed project report. Meanwhile, the cruise terminal in Mumbai has added an experience centre offering dining, shopping, lifestyle and entertainment options to attract passengers and local residents alike. Perched two levels above the terminal, it will open in phases over the next two months with a curated list of brands.

Tourism asset

Aditi Kotak, Director of Ballard Pier Private Limited, the company developing the experience centre, said, "Our coastline can become one of the country's most distinctive tourism assets, but that takes more than infrastructure; it calls for experiences that draw people to the sea."

In FY26 the country's nine ports handled 212 ship calls and 4.62 lakh passengers. Domestic cruises contributed to 78% of ships calls and over 90% of the traffic. Mumbai handled 45% of the ship calls and 52% of all passengers in FY26. From eight international ship calls last season, Mumbai port is seeing just five this year, as geopolitical tensions drive up fuel and insurance costs.

Tax reforms needed

Global cruise operators are bullish on the Indian market as they see a strong demand for trips within Asia, the Caribbean and Europe.

"We have no plans to homeport vessels in India at this time. Our focus is on serving Indian guests through international itineraries. We will keep reviewing the market as conditions evolve," said Norbert Stiekma, ED, global sales, MSC Cruises.

Foreign firms are holding back from deploying their ships in India, and the reason is not the regional tensions alone. They want tax reforms.

"We are in discussions with a few cruise liners (to deploy their vessels in India), but there is a lot of groundwork to be done before we can make this happen. It requires the right infrastructure, clear policies and a commercially viable environment," said Nalini Gupta, Managing Director at ClickMyCruise & Lotus Destinations, representing global cruise operators.

"The single most important reform would be a tax framework for cruises in Indian waters that is competitive with international cruising and comparable to other tourism and transport sectors," Mr. Stiekma added. Officials say steps are underway not only to expand facilities but also ease regulations, thereby addressing the industry concerns.

"The Cruise Bharat Mission has given India's cruise sector a clear direction, a strong institutional framework and measurable targets. With the expansion of facilities and homeporting of more ships, the sector is poised for growth.

"Reforms such as e-group visit visas, simplified shore leave passes, QR code-based immigration clearance, and digitised customs will address the concerns raised by global cruise lines and strengthen India's competitiveness," said M. Angamuthu, Chairman, Mumbai Port Authority.

(The writer is with The Hindu businessline)

India Targets Doubling Cruise Traffic by 2029

नए टर्मिनल और जहाज़ों के साथ 2028-29 तक क्रूज़ यात्रियों को 10 लाख तक पहुँचाने का लक्ष्य पटरी पर – लाल सागर तनाव से विदेशी जहाज़ कम आ रहे, पर घरेलू क्रूज़ कारोबार बढ़ रहा; विदेशी कंपनियाँ कर सुधार चाहती हैं

Cruise Bharat
क्रूज़ भारत

1 The goal | लक्ष्य

- Target **on course**, say officials
  लक्ष्य पटरी पर
- Driven by **new terminals & ships**
  नए टर्मिनल
- **Red Sea** tensions cut foreign port calls
  लाल सागर

2 Cordelia's growth कॉर्डेलिया

- 2nd ship **Cordelia Sky** inducted (late Oct)
  दूसरा जहाज़
- **3rd vessel** due next year
  तीसरा जहाज़
- Cochin is home port for **Cordelia Empress**
  होम पोर्ट

3 What foreign lines want विदेशी कंपनियों की माँग

- A **competitive tax framework**
  कर ढाँचा
- MSC: **no plans to home-port** in India yet
  MSC
- **e-group visas**, QR-code immigration
  ई-वीज़ा

India aims to double cruise traffic by 2029 — in depth (1/2)

क्रूज़ पर्यटन — विस्तार से (1/2)

4 Goa's new terminal गोवा टर्मिनल

₹185 cr
Cost
लागत

13 acres
Area
क्षेत्रफल

4
Ships at once + Ro-Ro
जहाज़

Dec 2027
Full completion
पूर्ण

5 Ports upgrading बंदरगाह विस्तार

- New terminals at **Chennai, Mumbai, Vizag** (3 yrs)
  नए टर्मिनल
- **Cochin**: mega terminal DPR under way
  कोचीन
- Mumbai: **experience centre** – dining, shopping
  अनुभव केंद्र

6 Ideas to grow | सुझाव

- **Tourist circuits** to draw foreigners
  पर्यटन सर्किट
- Itineraries: **South India–SE Asia**, India–West Asia
  मार्ग
- Make the coast a **tourism asset**
  तटीय पर्यटन

India aims to double cruise traffic by 2029 — in depth (2/2)

क्रूज़ पर्यटन — विस्तार से (2/2)

7 Cruise Bharat Mission | क्रूज़ भारत मिशन

Launched
शुरुआत
Sept 2024
2024

Phase 1
चरण 1
Plan & partner
योजना

Phase 2
चरण 2
New sites
नए स्थल

Phase 3
चरण 3
Mature by 2029
2029

8 Did you know? क्या आप जानते हैं?

- India's coastline is about **11,098 km** (revised 2024)
  तटरेखा
- Mumbai's cruise terminal is at **Ballard Pier**
  बैलार्ड पियर

India aims to double cruise traffic by 2029 — background (1/2)

क्रूज़ पर्यटन — पृष्ठभूमि (1/2)

9 Major ports प्रमुख बंदरगाह

Fact तथ्य	Detail विवरण
Major ports प्रमुख	12
Top cargo सर्वाधिक माल	Deendayal (Kandla)
Top container कंटेनर	JNPA, Navi Mumbai
Upcoming आगामी	Vadhavan (Maharashtra)

10 Sagarmala | सागरमाला

- Launched **2015** – port-led development
  2015
- Pillars: **port modernisation, connectivity**
  आधुनिकीकरण
- Also **port-led industry** & coastal communities
  तटीय समुदाय

11 New maritime laws (2025) नए क़ानून

- **Merchant Shipping Act**, 2025
  मर्चेंट शिपिंग
- **Coastal Shipping Act**, 2025
  तटीय नौवहन
- **Bills of Lading Act**, 2025
  बिल ऑफ़ लैडिंग

India aims to double cruise traffic by 2029 — background (2/2)

क्रूज़ पर्यटन — पृष्ठभूमि (2/2)

12 Maritime vision | समुद्री विज़न

MIV 2030
MIV 2030
2021
2021

→

Amrit Kaal 2047
अमृत काल
2023
2023

→

Cruise Bharat
क्रूज़ भारत
2024
2024

→

10 lakh cruisers
10 लाख
FY29
2029

13 Red Sea effect
लाल सागर संकट

- **Houthi** attacks since late 2023
  हूती हमले
- Ships reroute via **Cape of Good Hope**
  केप ऑफ़ गुड होप
- Higher **fuel & insurance** costs
  बीमा लागत

India aims to double cruise traffic by 2029 — Static GK

क्रूज़ पर्यटन — स्थैतिक सामान्य ज्ञान

14 Waterways | जलमार्ग

Fact तथ्य	Detail विवरण
Ministry मंत्रालय	Ports, Shipping & Waterways
IWAI IWAI	1986
NW-1 राष्ट्रीय जलमार्ग 1	Ganga: Haldia–Prayagraj
NW-2 राष्ट्रीय जलमार्ग 2	Brahmaputra

15 Key straits | जलडमरूमध्य

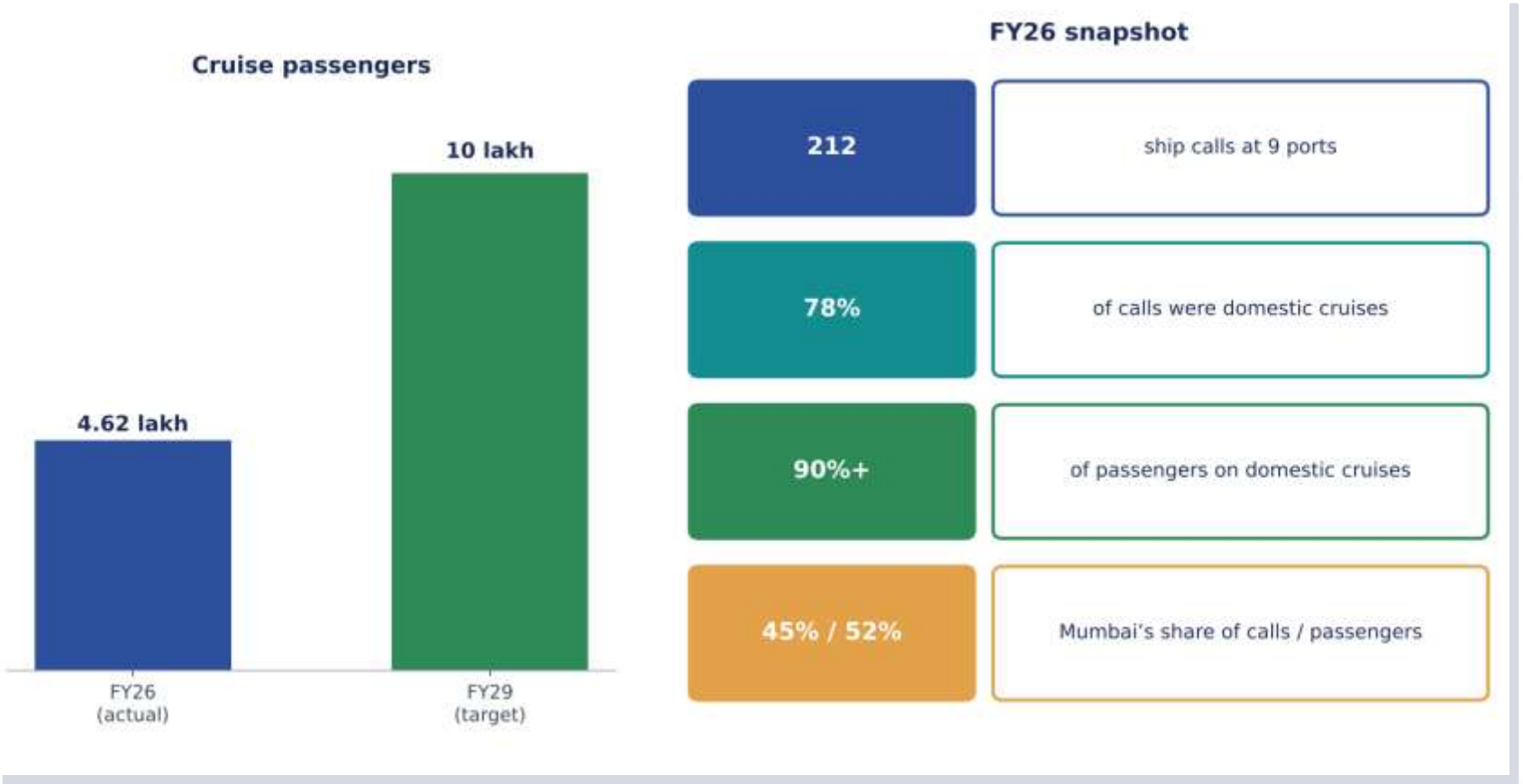
- **Bab-el-Mandeb** – Red Sea ↔ Gulf of Aden
  बाब-अल-मंदेब
- **Hormuz** – Persian Gulf ↔ Gulf of Oman
  होर्मुज़
- **Malacca** – Andaman Sea ↔ South China Sea
  मलक्का

16 Island facts | द्वीप

- **Andaman & Nicobar** – 836 islands
  अंडमान-निकोबार
- **Lakshadweep** – 36 islands
  लक्षद्वीप
- **Ten Degree Channel** separates Andaman & Nicobar
  टेन डिग्री चैनल

India aims to double cruise traffic by 2029 — Map & Diagram

क्रूज़ पर्यटन — मानचित्र व आरेख

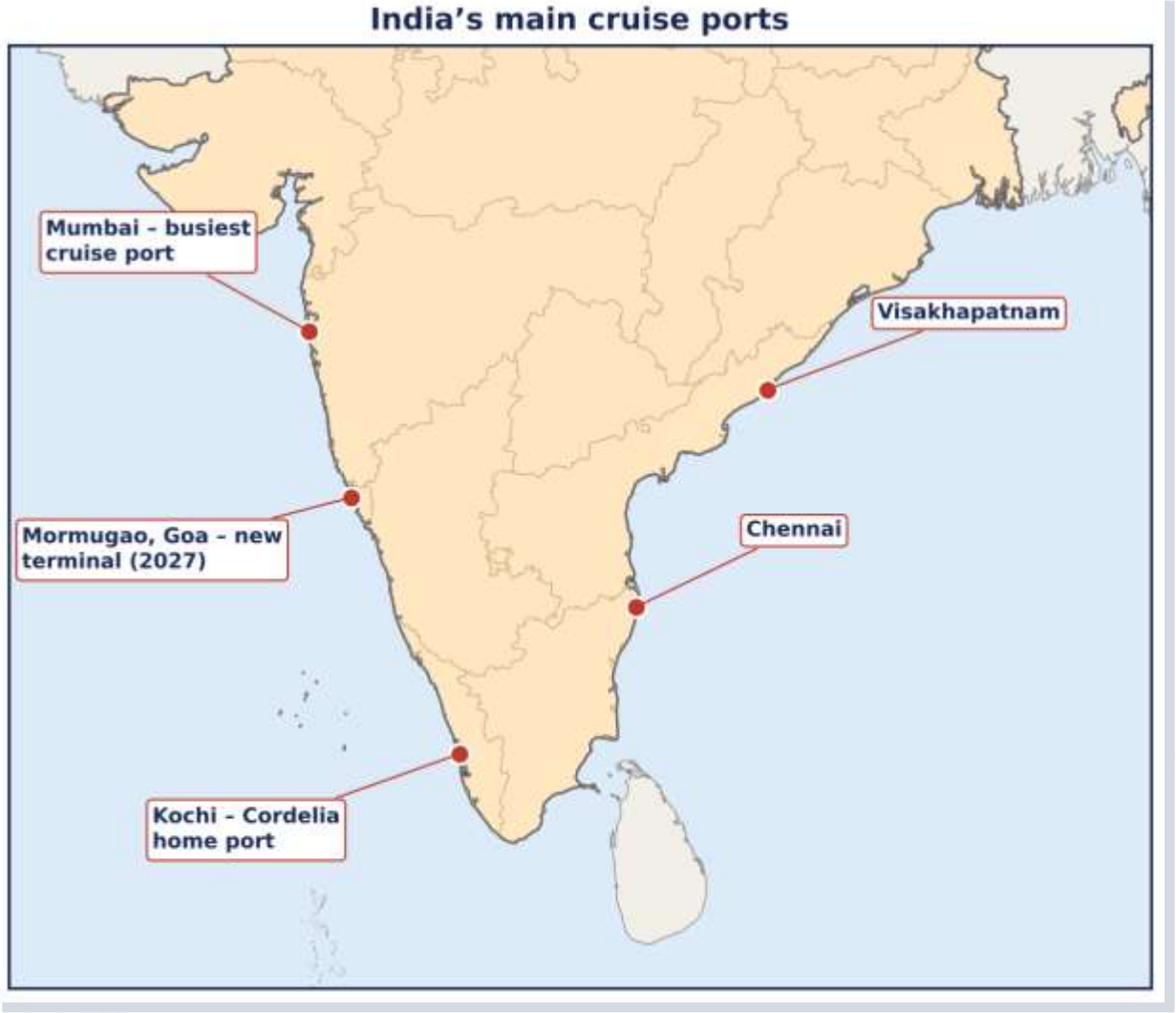


Read the visual
चित्र को समझें

- Must grow about **2.2×** in three years
  2.2 गुना
- **Domestic** sailings carry the market
  घरेलू क्रूज़
- **Mumbai** dominates calls and passengers
  मुंबई

India aims to double cruise traffic by 2029 — Map & Diagram

क्रूज़ पर्यटन — मानचित्र व आरेख



Read the visual
चित्र को समझें

- West coast hosts **3 of 5** key cruise ports
  पश्चिमी तट
- East coast: **Chennai & Visakhapatnam**
  पूर्वी तट
- Kochi is the gateway for **Lakshadweep** cruises
  लक्षद्वीप

India's concert economy finds its rhythm

कॉन्सर्ट अर्थव्यवस्था

India's concert economy finds rhythm of growth

Jyoti Banthia
Aishwarya Kumar

From Chennai's annual Margazhi music season to Carnatic kutcheris and Hindustani classical music mehfils around the country, Thyagaraja Aradhana in Thiruvaiyaru and Falguni Pathak's energetic music shows in Ahmedabad, live performances have always found a ready audience in India. What has changed in recent times is the scale.

One of the earliest large-scale commercial concerts in India was The Police's charity performance at Mumbai's Rang Bhavan in the 1980s and Michael Jackson's 1996 concert, also in Mumbai, which drew over 70,000 fans. Today, such extravaganzas are no longer one-off treats but a year-round business, complete with ticketing platforms, promoters, sponsors and host cities competing for a share of the moolah.



Huge market: An EY report pegged India's organised live event market at over ₹12,000 crore in 2024, growing at 19% annually .

Vasudev Roy (name changed on request) and eight friends paid ₹12,500 each to attend Ed Sheeran's recent concert in Bengaluru. By no means cheap, the experience justified the price, says Roy. As Sheeran strummed his guitar and launched into the chartbuster *'Perfect'*, thousands of voices joined in. The familiar lyrics acquired a different meaning when heard live, Rao says, as friends sang together and strangers swayed in unison. This willingness to spend big on shared experiences is reshaping India's concert economy. Audiences book tickets months in advance and travel across cities to catch everything from international acts such as Coldplay and Linkin Park to homegrown artistes Shreya Ghoshal, Sunidhi Chauhan and Diljit Dosanjh.

Discovery platforms

Ticketing platform BookMyShow's live events revenue more than tripled from ₹237.5 crore in FY23 to ₹756 crore in FY25 and is now approaching ₹828 crore. An EY report pegged India's organised live event market at over ₹12,000 crore in 2024, growing at 19% annually over the following three years.

Established platforms and newer entrants are in the fray, including District, food delivery platform Zomato's entertainment arm, and Thumpn, founded last year. Thumpn has nearly 3.5 lakh registered users and has sold an equal number of tickets till date, says its founder and CEO, Varun Khare. While revenue comes from booking fees and commercial arrangements with organisers, Khare sees a bigger opportunity in supporting the wider live entertainment ecosystem. "We don't need to own every event to participate in its success. We'd rather build a platform that helps the entire industry grow, and grow alongside it," he says.

Beyond tickets

The platforms have to find ways to capture a bigger share of the spending and engagement that surrounds a live event, beyond just sale of a ticket.

For BookMyShow, the answer increasingly lies in production. The company offered over 32,400 live events across 319 cities in 2024 and produced more than 900 shows for Indian artistes in FY25, says Naman Pugalia, chief business officer, live events. Its portfolio includes international tours and licensed properties such as Lollapalooza India. "Fans tend to hold the brand that sold them the ticket accountable for the whole experience, so taking on more of the value chain became the most direct way to raise those standards," Pugalia explains.

(The writer is with The Hindu businessline)

India's Concert Economy
Finds Rhythm of Growth

कभी-कभार होने वाले बड़े कॉन्सर्ट अब साल भर का कारोबार – दर्शक महीनों पहले टिकट बुक कर शहर-शहर जा रहे; टिकटिंग प्लेटफ़ॉर्म, प्रमोटर और मेज़बान शहर इस बढ़ते बाज़ार में हिस्सेदारी के लिए होड़ में

Live events
लाइव इवेंट

1 Then | तब

- **The Police** charity show, Rang Bhavan (1980s)
  1980 का दशक
- Big concerts were **one-off treats**
  कभी-कभार
- Classical **kutcheris & mehfils** had loyal crowds
  कुचेरी, महफ़िल

2 Now | अब

- A **year-round business**
  साल भर
- Global acts: **Coldplay, Linkin Park**
  विदेशी कलाकार
- Home stars: **Shreya Ghoshal, Sunidhi, Diljit**
  भारतीय सितारे

3 Fans spend big | ख़र्च

- Friends paid **₹12,500 each** for one show
  ₹12,500
- Book **months ahead**, travel across cities
  पहले से बुकिंग
- Pay for **shared experiences**
  साझा अनुभव

India’s concert economy finds its rhythm — in depth (1/2)

कॉन्सर्ट अर्थव्यवस्था — विस्तार से (1/2)

4 The platforms प्लेटफ़ॉर्म

- **BookMyShow** – the market leader
  बुकमायशो
- **District** – Zomato’s entertainment arm
  डिस्ट्रिक्ट
- **Thumpn** – 3.5 lakh users in a year
  थम्पन

5 BookMyShow’s play रणनीति

- Now **produces** shows – 900+ for Indian artistes (FY25)
  निर्माण
- Runs licensed **Lollapalooza India**
  लोलापालूज़ा
- Owns more of the **value chain**
  मूल्य श्रृंखला

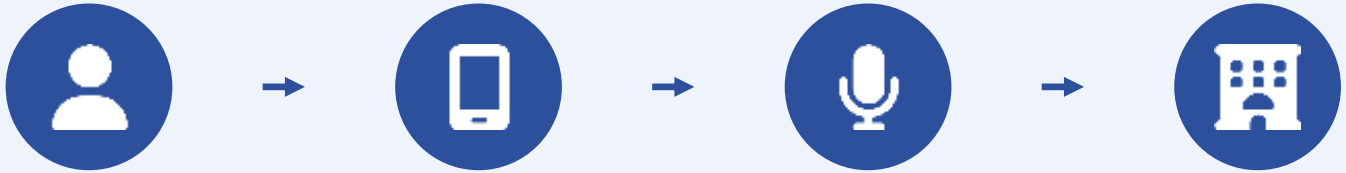
6 Thumpn’s model | मॉडल

- Earns via **booking fees** & deals
  बुकिंग शुल्क
- “Don’t need to **own every event**” – Varun Khare
  वरुण खरे
- Build for the **whole ecosystem**
  पूरा तंत्र

India's concert economy finds its rhythm — in depth (2/2)

कॉन्सर्ट अर्थव्यवस्था — विस्तार से (2/2)

7 Where a concert rupee goes | पैसे का प्रवाह



8 Did you know? क्या आप जानते हैं?

- **Lollapalooza** began in the US in **1991**
  1991
- **Diljit Dosanjh** – first Punjabi artist at **Coachella** (2023)
  कोचेला

India's concert economy finds its rhythm — background (1/2)

कॉन्सर्ट अर्थव्यवस्था — पृष्ठभूमि (1/2)

9 Creative-economy terms शब्दावली

Term शब्द	Meaning अर्थ
Orange economy ऑरेंज इकॉनमी	Creative industries
AVGC AVGC	Animation, VFX, gaming, comics
WAVES वेव्स	Media summit, Mumbai (2025)
IICT IICT	Creative-tech institute, Mumbai

10 Concert tourism कॉन्सर्ट पर्यटन

- PM flagged the "**concert economy**" in Jan 2025
  प्रधानमंत्री
- States now **compete** to host shows
  राज्यों में होड़
- Lifts **hotels, transport, food**
  होटल, परिवहन

11 Ticket scalping टिकट कालाबाज़ारी

- Coldplay resale row (2024) – **EOW** probe
  जाँच
- Fake & inflated **resale** tickets
  फ़र्ज़ी टिकट
- Calls for an **anti-scalping** law
  क़ानून की माँग

India’s concert economy finds its rhythm — background (2/2)

कॉन्सर्ट अर्थव्यवस्था — पृष्ठभूमि (2/2)

12 Roots of Indian music | भारतीय संगीत की जड़ें

Natyashastra
नाट्यशास्त्र
Bharata Muni
भरत मुनि

→

Carnatic trinity
त्रिमूर्ति
Thyagaraja & co.
त्यागराज

→

Gharanas
घराने
Hindustani
हिंदुस्तानी

→

Stadium stage
स्टेडियम
Today
आज

13 Music festivals | संगीत उत्सव

- **Tansen Samaroh** – Gwalior
  तानसेन समारोह
- **Sawai Gandharva** – Pune
  सवाई गंधर्व
- **Hornbill** – Nagaland
  हॉर्नबिल

India's concert economy finds its rhythm — Static GK

कॉन्सर्ट अर्थव्यवस्था — स्थैतिक सामान्य ज्ञान

14 Bharat Ratna musicians भारत रत्न संगीतकार

Name नाम	Year वर्ष
M.S. Subbulakshmi एम.एस. सुब्बुलक्ष्मी	1998
Ravi Shankar रविशंकर	1999
Lata Mangeshkar लता मंगेशकर	2001
Bhimsen Joshi भीमसेन जोशी	2009

15 Instruments & maestros वाद्य व उस्ताद

- **Santoor** – Shivkumar Sharma
  संतूर
- **Tabla** – Zakir Hussain
  तबला
- **Sarod** – Amjad Ali Khan
  सरोद

16 Honours | सम्मान

- **Sangeet Natak Akademi** – set up 1952
  संगीत नाटक अकादमी
- **A.R. Rahman** – two Oscars (2009)
  ए.आर. रहमान
- **Ricky Kej** – three Grammys
  रिकी केज

India’s concert economy finds its rhythm — Map & Diagram

कॉन्सर्ट अर्थव्यवस्था — मानचित्र व आरेख

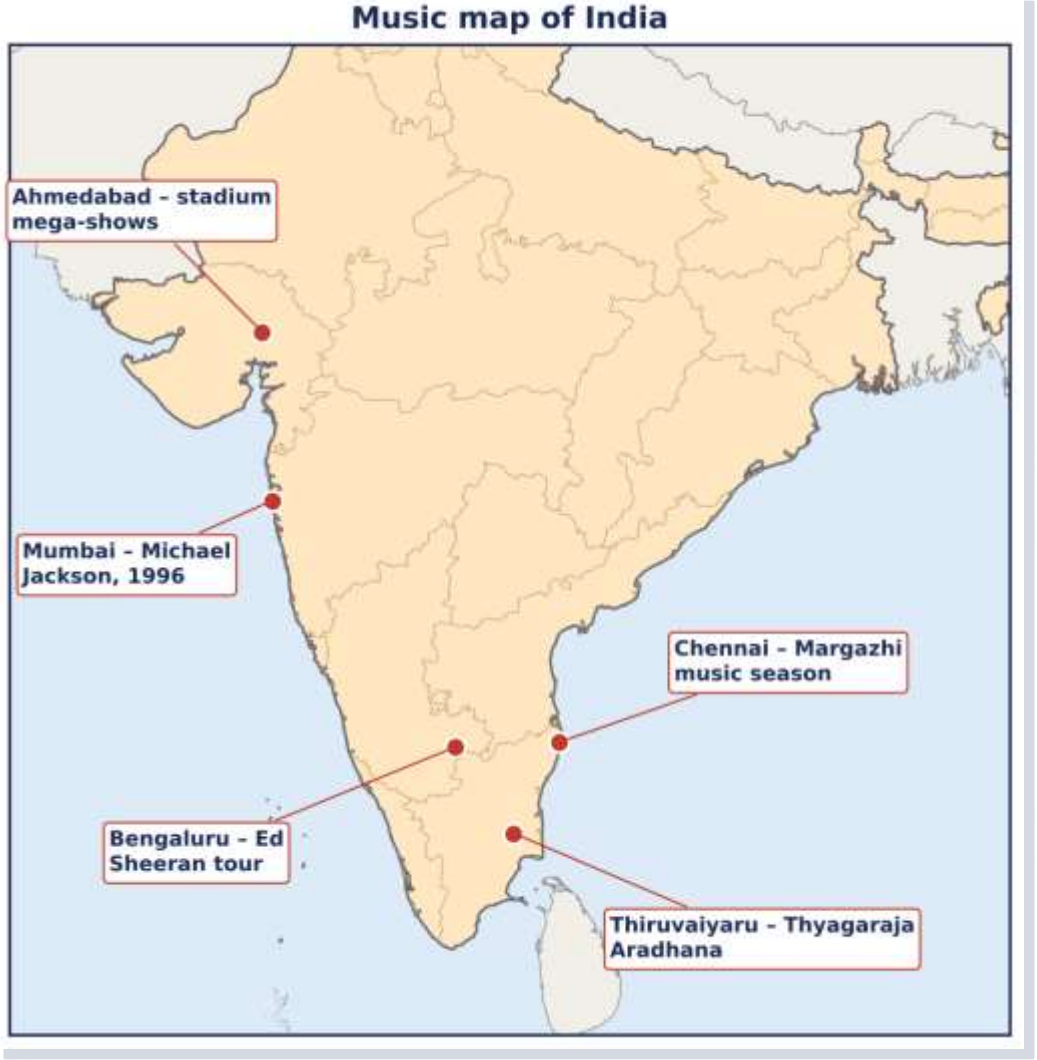


Read the visual
चित्र को समझें

- BookMyShow live revenue rose **over 3×** in two years
  3 गुना से अधिक
- Market valued at **₹12,000 cr+** (EY)
  ₹12,000 करोड़
- Growing about **19% a year**
  19% वार्षिक

India’s concert economy finds its rhythm — Map & Diagram

कॉन्सर्ट अर्थव्यवस्था — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Chennai** – Margazhi music season (Dec–Jan)
  मार्गाली
- **Thiruvaiyaru** (Thanjavur) – Thyagaraja Aradhana
  तिरुवैयारु
- **Ahmedabad** stadium hosts mega-shows
  अहमदाबाद
- **Mumbai** – Michael Jackson drew 70,000 (1996)
  मुंबई 1996



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पृष्ठ 14 · अंतिम पृष्ठ

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **New IAF chief's 'VAYU' vision | वायुसेना प्रमुख**

New IAF chief Dixit unveils 'VAYU' vision

वायुसेना प्रमुख का 'वायु' विज़न

FUTURE-READY AIR FORCE

New IAF chief Dixit unveils 'VAYU' vision

AMRITA NAYAK DUTTA
New Delhi, November 1

A DAY AFTER he took charge as the 29th Chief of Air Staff, Air Chief Marshal Ashutosh Dixit outlined his top priorities to strengthen and modernise the force.

They are: Restoring the IAF's sanctioned combat strength, boosting self-reliance, adopting the latest technologies and procedures, and strengthening synergy between the three services.

He summed up these priorities in a word synonymous with the IAF – 'VAYU'. The 'V' stands for vigilance and readiness. Every squadron, radar, air defence unit and air warrior must be ready to respond at a moment's notice, Air Chief Marshal Dixit said. "Restoring our combat strength towards the sanctioned level will also be my foremost task," he added.

The IAF's fighter strength is well below its sanctioned 42 squadrons. Several MiG-21 squadrons have been phased out in recent years, other fighter squadrons are scheduled to be phased out by the end of 2029-30, and the induction of the LCA Tejas has been delayed.



Air Chief Marshal Ashutosh Dixit

The 'A' in VAYU stands for Aatmanirbharta, or self-reliance, Air Chief Marshal Dixit said. Priorities centre on the Tejas Mk1 and Mk1A, the next-generation Advanced Medium Combat Aircraft, alongside Indian-made weapons and sensors.

The IAF will fight with Indian solutions, fielded in adequate numbers to meet sustained operational demands. "Our responsibility is to fight and win, but most importantly it is to deter conflict through credible Air Power," he said.

"Y is for Yukti, our ingenuity," Air Chief Marshal Dixit said. He added that the IAF would continue to advance innovation in doctrine, procedures and technology; networked, AI-enabled command and control; layered counter-drone defence; responsive maintenance; force protection; resilience; and the use of near-space as an operational domain.

"U stands for unity of effort," he said. "In step with the vision of JAI — Jointness, Aatmanirbharta and Innovation — we will plan and fight as one alongside our Army, our Navy and our national agencies." He emphasised that air power is most effective when integrated from the outset. Describing the Indian Air Force as "vigilant, ready and resolute", he said: "Our commitment is clear: to remain ready, to keep transforming and to deliver whenever the nation calls."

New IAF Chief Dixit

Unveils ‘VAYU’ Vision

वायुसेना के 29वें प्रमुख एयर चीफ़ मार्शल आशुतोष दीक्षित ने कार्यभार संभालने के अगले दिन अपनी प्राथमिकताएँ “वायु” शब्द में बताईं – स्वीकृत लड़ाकू क्षमता की बहाली, आत्मनिर्भरता, नई तकनीक और तीनों सेनाओं में तालमेल

Air power
वायु शक्ति

1 The new chief | नए प्रमुख

- **Air Chief Marshal Ashutosh Dixit**
  आशुतोष दीक्षित
- **29th** Chief of the Air Staff
  29वें प्रमुख
- Outlined priorities **a day after** taking charge
  पहला संदेश

2 His task list प्राथमिकताएँ

- Restore **sanctioned combat strength** – “foremost task”
  लड़ाकू क्षमता
- Adopt the **latest technology & procedures**
  नई तकनीक
- Ready to respond at a **moment’s notice**
  तत्परता

3 The squadron gap स्क्वाड्रन कमी

- Sanctioned: **42 fighter squadrons**
  42 स्वीकृत
- Actual strength **well below** that
  काफ़ी कम
- More squadrons retire by **2029-30**; Tejas delayed
  सेवानिवृत्ति

New IAF chief Dixit unveils ‘VAYU’ vision — in depth (1/2)

वायुसेना प्रमुख का ‘वायु’ विज़न — विस्तार से (1/2)

4 Self-reliance plan आत्मनिर्भरता

- **Tejas Mk1 & Mk1A** fighters
  तेजस
- Next-gen **AMCA**
  AMCA
- **Indian-made weapons & sensors**
  स्वदेशी हथियार

5 Ingenuity (Yukti) युक्ति

- **AI-enabled**, networked command & control
  AI कमान
- **Layered counter-drone** defence
  ड्रोन-रोधी
- **Near-space** as an operational domain
  निकट-अंतरिक्ष

6 Jointness & deterrence संयुक्तता

- Guided by **JAI** – Jointness, Aatmanirbharta, Innovation
  JAI
- Air power works best **integrated from the outset**
  शुरुआत से एकीकरण
- Aim: “**deter conflict** through credible air power”
  प्रतिरोध

New IAF chief Dixit unveils ‘VAYU’ vision — in depth (2/2)

वायुसेना प्रमुख का ‘वायु’ विज़न — विस्तार से (2/2)

7 Fighter fleet road map | लड़ाकू बेड़ा

MiG-21 retired मिग-21 विदा	Tejas Mk1A तेजस	Rafale राफ़ेल	AMCA AMCA
Sept 2025 2025	Inducting शामिल	36 in service सेवा में	5th gen, 2030s पाँचवीं पीढ़ी

8 Did you know? क्या आप जानते हैं?

- IAF chief’s rank: **Air Chief Marshal** (4-star)
  चार सितारा
- **Arjan Singh** – only five-star officer of the IAF
  अर्जन सिंह

New IAF chief Dixit unveils ‘VAYU’ vision — background (1/2)

वायुसेना प्रमुख का ‘वायु’ विज़न — पृष्ठभूमि (1/2)

9 IAF’s aircraft वायुसेना के विमान

Aircraft विमान	Origin मूल
Rafale राफ़ेल	France (Dassault)
Su-30MKI सुखोई	Russia / HAL
Tejas तेजस	HAL (India)
C-295 C-295	Airbus–Tata, Vadodara

10 AMCA उन्नत मध्यम लड़ाकू विमान

- **5th-generation stealth** fighter
  स्टेल्थ
- Designed by **ADA** (DRDO)
  ADA
- Execution model with **private** industry (2025)
  निजी भागीदारी

11 Jointness reforms संयुक्त सुधार

- **CDS** post created **2020** – Gen Bipin Rawat first
  CDS
- **Department of Military Affairs** (DMA)
  DMA
- **Theatre commands** planned
  थिएटर कमान

New IAF chief Dixit unveils ‘VAYU’ vision — background (2/2)

वायुसेना प्रमुख का ‘वायु’ विज़न — पृष्ठभूमि (2/2)

12 IAF in action | प्रमुख अभियान

1947–48 1947–48	1971 1971	1999 1999	2019 2019
Airlift to Srinagar श्रीनगर	Bangladesh war बांग्लादेश	Kargil कारगिल	Balakot strike बालाकोट

13 Air defence shield
वायु रक्षा

- **S-400** “Sudarshan Chakra”
S-400
- Indigenous **Akash** missiles
आकाश
- **IACCS** – integrated air command network
IACCS

New IAF chief Dixit unveils ‘VAYU’ vision — Static GK

वायुसेना प्रमुख का ‘वायु’ विज़न — स्थैतिक सामान्य ज्ञान

14 IAF facts | वायुसेना तथ्य

- Motto: **Nabhah Sparsham Deeptam** (Gita)
  नभः स्पृशं दीप्तम्
- HQ: **Vayu Bhawan**, New Delhi
  वायु भवन
- Aerobatic team: **Surya Kiran**
  सूर्य किरण

15 Service chiefs’ ranks सेना प्रमुखों के पद

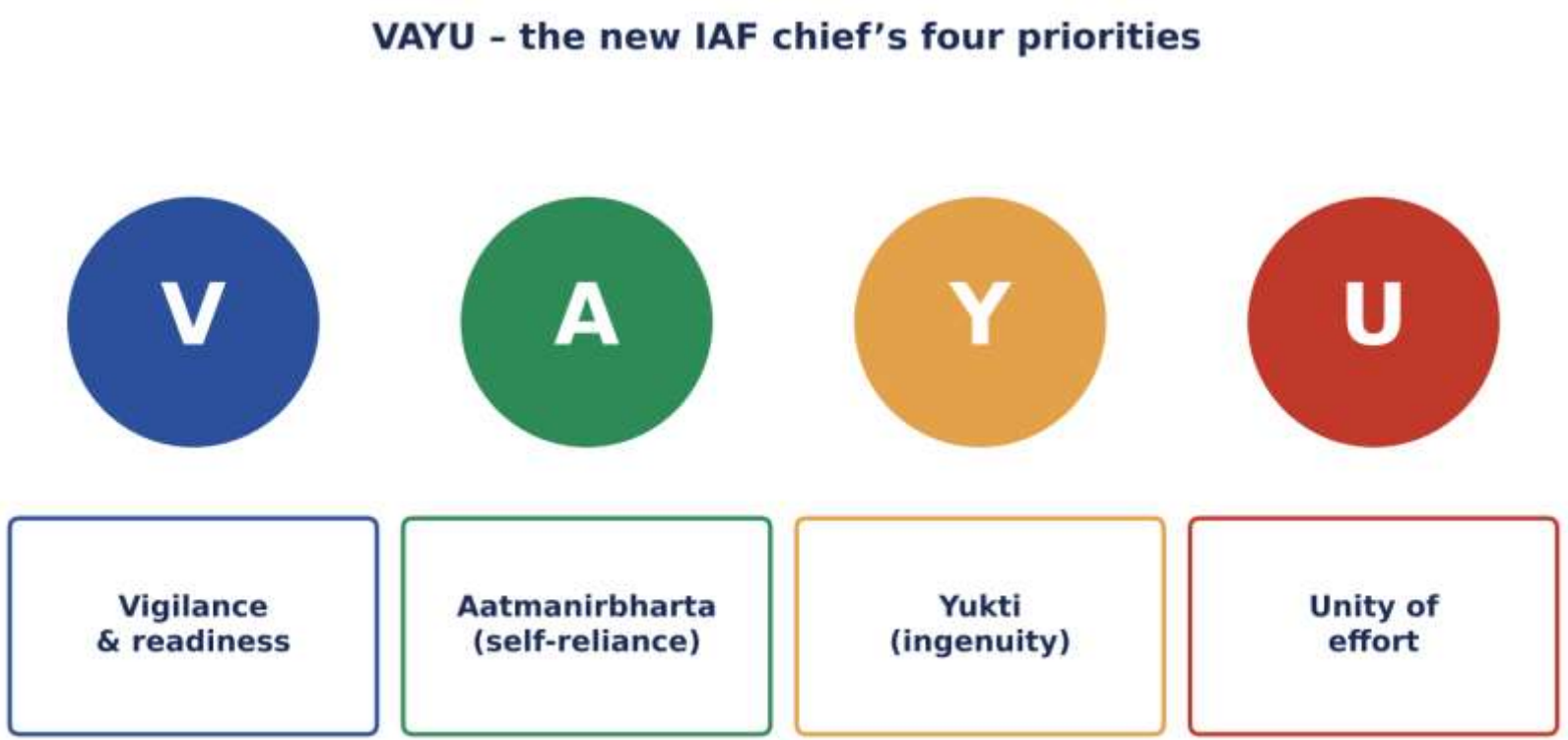
Service सेना	Chief’s rank पद
Army थलसेना	General
Navy नौसेना	Admiral
Air Force वायुसेना	Air Chief Marshal
Supreme Commander सर्वोच्च कमांडर	President (Art 53)

16 IAF gallantry | वीरता

- **Nirmal Jit Singh Sekhon** – IAF’s only Param Vir Chakra
  परमवीर चक्र
- **Abhinandan Varthaman** – Vir Chakra (2019)
  वीर चक्र
- PVC designed by **Savitri Khanolkar**
  सावित्री खानोलकर

New IAF chief Dixit unveils ‘VAYU’ vision — Map & Diagram

वायुसेना प्रमुख का ‘वायु’ विज़न — मानचित्र व आरेख



Read the visual
चित्र को समझें

- One word, **four priorities**
  चार प्राथमिकताएँ
- Spells the force’s own name – **VAYU** (air)
  वायु
- Mixes **readiness** with **reform**
  तैयारी व सुधार

New IAF chief Dixit unveils ‘VAYU’ vision — Map & Diagram

वायुसेना प्रमुख का ‘वायु’ विज़न — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **7 commands** – 5 operational, 2 functional
  7 कमान
- Operational HQs stretch from **Gandhinagar to Shillong**
  गांधीनगर से शिलांग
- **Training** (Bengaluru), **Maintenance** (Nagpur)
  प्रशिक्षण, रखरखाव

Asked in Exams — guess the answer! | पहले स्वयं उत्तर सोचें

RRB NTPC 2025 (UG) CBT-2
17 Sep 2026 (Shift 1) • Topic: Navy's destroyer project

Which of the following naval ships participated in the SLINEX-25 exercise in Sri Lanka in August 2025?

(a) INS Talwar and INS Shivalik
(b) INS Vikrant and INS Trikand
(c) INS Kolkata and INS Satpura
(d) INS Rana and INS Jyoti

RRB Group D (CEN 2024)
27 Dec 2025 (Shift 2) • Topic: Navy's destroyer project

What is the name of the submarine commissioned by India on January 15, 2025?

(a) INS Kalvari
(b) INS Khanderi
(c) INS Vela
(d) INS Vagsheer

Asked in Exams — guess the answer! | पहले स्वयं उत्तर सोचें

UPSC CSE Prelims 2026 – GS I

24 May 2026 (Q35) • Topic: Cruise traffic & ports

Consider the following statements about the Sagarmala Programme: I. It seeks port-led growth through cost-effective, sustainable coastal infrastructure. II. Its success is reflected in growth of coastal and inland waterway shipping and better global port rankings. III. Sagarmala 2.0 aims to make India a global maritime innovation hub. Which relationships are correct? 1. II validates I. 2. III extends I into a future-oriented framework. 3. I contradicts III.

(a) 1 only
(b) 1 and 2
(c) 2 and 3
(d) 3 only

AFCAT (02) 2026

8 Aug 2026 (Shift 2, Q41) • Topic: New IAF chief

Which of the following armed forces of India was established on 8 October 1932 and later had Subroto Mukerjee as its first Indian Chief?

(a) Central Reserve Police Force
(b) Indian Air Force
(c) Indian Army
(d) Border Security Force

Answers & Explanation | उत्तर व व्याख्या

RRB NTPC 2025 (UG) CBT-2

17 Sep 2026 (Shift 1) • Topic: Navy's destroyer project

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(a) INS Talwar and INS Shivalik
(b) INS Vikrant and INS Trikand
(c) INS Kolkata and INS Satpura
(d) INS Rana and INS Jyoti

Answer: (d) — India–Sri Lanka naval exercise.
INS राणा और INS ज्योति।

RRB Group D (CEN 2024)

27 Dec 2025 (Shift 2) • Topic: Navy's destroyer project

What is the name of the submarine commissioned by India on January 15, 2025?

(a) INS Kalvari
(b) INS Khanderi
(c) INS Vela
(d) INS Vagsheer

Answer: (d) — Sixth and last Scorpene (P-75) sub, built by MDL.
INS वागशीर।

Answers & Explanation | उत्तर व व्याख्या

UPSC CSE Prelims 2026 – GS I

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(a) 1 only

(b) 1 and 2

(c) 2 and 3

(d) 3 only

Answer: (b) — Infrastructure and innovation complement each other.
1 और 2।

AFCAT (02) 2026

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Which of the following armed forces of India was established on 8 October 1932 and later had Subroto Mukerjee as its first Indian Chief?

(a) Central Reserve Police Force

(b) Indian Air Force

(c) Indian Army

(d) Border Security Force

Answer: (b) — Air Force Day is 8 October.
भारतीय वायुसेना।

Asked in Exams — guess the answer! | पहले स्वयं उत्तर सोचें

SSC CGL 2025 – Tier 2 (Paper 1)
19 Jan 2026 • Topic: Bhutan's Project 108

Which of the following Buddhist Councils and their locations are correctly matched?

(a) First – Rajagriha
(b) Second – Lumbini
(c) Third – Kashmir
(d) Fourth – Pataliputra

UPSSSC Lower PCS 2026
23 Aug 2026 • Topic: Bhutan's Project 108

Where did Gautama Buddha deliver his first sermon after attaining enlightenment?

(a) Shravasti
(b) Sarnath
(c) Kaushambi
(d) Kushinagar

Asked in Exams — guess the answer! | पहले स्वयं उत्तर सोचें

RRB NTPC 2024 (UG) CBT-1

29 Aug 2025 (Shift 1) • Topic: Firecrackers & your ears

Which of the following noise levels is considered potentially harmful to human health if experienced over extended periods?

(a) 30 dB
(b) 90 dB
(c) 70 dB
(d) 50 dB

SSC CGL 2025 – Tier 2 (Paper 1)

19 Jan 2026 • Topic: Firecrackers & your ears

What is the audible frequency range for the human ear?

(a) 0–10,000 Hz
(b) 20–20,000 Hz
(c) 2 kHz–20 kHz
(d) 100–1,000 Hz

Answers & Explanation | उत्तर व व्याख्या

SSC CGL 2025 – Tier 2 (Paper 1)

19 Jan 2026 • Topic: Bhutan's Project 108

Which of the following Buddhist Councils and their locations are correctly matched?

(a) First – Rajagriha
(b) Second – Lumbini
(c) Third – Kashmir
(d) Fourth – Pataliputra

Answer: (a) — 2nd Vaishali, 3rd Pataliputra, 4th Kundalavana (Kashmir).
प्रथम – राजगृह।

UPSSSC Lower PCS 2026

23 Aug 2026 • Topic: Bhutan's Project 108

Where did Gautama Buddha deliver his first sermon after attaining enlightenment?

(a) Shravasti
(b) Sarnath
(c) Kaushambi
(d) Kushinagar

Answer: (b) — Deer Park, Isipatana – Dhammachakkappavattana.
सारनाथ।

Answers & Explanation | उत्तर व व्याख्या

RRB NTPC 2024 (UG) CBT-1

29 Aug 2025 (Shift 1) • Topic: Firecrackers & your ears

Which of the following noise levels is considered potentially harmful to human health if experienced over extended periods?

(a) 30 dB
(b) 90 dB
(c) 70 dB
(d) 50 dB

Answer: (b) — Long exposure ≥ ~85–90 dB causes noise-induced hearing loss.
90 dB।

SSC CGL 2025 – Tier 2 (Paper 1)

19 Jan 2026 • Topic: Firecrackers & your ears

What is the audible frequency range for the human ear?

(a) 0–10,000 Hz
(b) 20–20,000 Hz
(c) 2 kHz–20 kHz
(d) 100–1,000 Hz

Answer: (b) — Below 20 Hz infrasound, above 20 kHz ultrasound.
20–20,000 Hz।

Test Yourself — Q1–4 | स्वयं को परखें

Q1 **Project 18A of the Indian Navy relates to:**
प्रोजेक्ट 18A किससे संबंधित है?

(a) Aircraft carriers
(b) Next-gen stealth destroyers
(c) Nuclear submarines
(d) Patrol vessels

Q2 **The Defence Acquisition Council (DAC) is chaired by the:**
DAC के अध्यक्ष:

(a) Prime Minister
(b) Chief of Defence Staff
(c) Defence Minister
(d) Defence Secretary

Q3 **BS-VI emission norms came into force across India on:**
BS-VI मानक पूरे देश में कब लागू हुए?

(a) 1 April 2017
(b) 1 April 2020
(c) 1 January 2019
(d) 1 April 2022

Q4 **GRAP Stage IV in Delhi-NCR is invoked when AQI is:**
ग्रैप चरण IV कब लागू होता है?

(a) 201–300
(b) 301–400
(c) 401–450
(d) Above 450

Test Yourself — Q5–8 | स्वयं को परखें

Q5 The Commission for Air Quality Management (CAQM) was set up under an Act of:
CAQM किस वर्ष के अधिनियम से बना?

(a) 2019 (b) 2020

(c) 2021 (d) 2023

Q6 India's largest container port is:
भारत का सबसे बड़ा कंटेनर बंदरगाह:

(a) Deendayal (Kandla) (b) JNPA

(c) Chennai (d) Paradip

Q7 Thyagaraja Aradhana, a Carnatic music festival, is held at:
त्यागराज आराधना कहाँ होती है?

(a) Madurai (b) Thiruvaiyaru

(c) Kanchipuram (d) Mysuru

Q8 Which maestro is associated with the santoor?
संतूर से जुड़े उस्ताद:

(a) Zakir Hussain (b) Shivkumar Sharma

(c) Amjad Ali Khan (d) Hariprasad Chaurasia

Test Yourself — Q9–10 | स्वयं को परखें

Q9 The IAF's sanctioned fighter strength is:
वायुसेना की स्वीकृत लड़ाकू क्षमता:

(a) 32 squadrons
(b) 36 squadrons
(c) 42 squadrons
(d) 45 squadrons

Q10 The only IAF officer awarded the Param Vir Chakra is:
परमवीर चक्र पाने वाले एकमात्र वायुसेना अधिकारी:

(a) Arjan Singh
(b) Nirmal Jit Singh Sekhon
(c) Abhinandan Varthaman
(d) Subroto Mukerjee

Answer Key — Q1–5 | उत्तर व व्याख्या

1-b **Next-gen stealth destroyers** — About ₹80,000 crore.
अगली पीढ़ी के विध्वंसक।

2-c **Defence Minister** — Gives AoN for purchases.
रक्षा मंत्री।

3-b **1 April 2020** — India skipped BS-V.
1 अप्रैल 2020।

4-d **Above 450** — “Severe+”.
450 से ऊपर।

5-c **2021** — Replaced EPCA.
2021।

Answer Key — Q6–10 | उत्तर व व्याख्या

6-b **JNPA** — In Navi Mumbai.
JNPA।

7-b **Thiruvaiyaru** — Thanjavur district.
तिरुवैयारु।

8-b **Shivkumar Sharma** — Kashmiri instrument.
शिवकुमार शर्मा।

9-c **42 squadrons** — Actual strength far lower.
42 स्क्वाड्रन।

10-b **Nirmal Jit Singh Sekhon** — 1971 war, Srinagar.
निर्मलजीत सिंह सेखों।

Myth Buster of the Day — Environment | आज का भ्रम-भंजन

MYTH | भ्रम

"Electric vehicles cause zero pollution."

इलेक्ट्रिक वाहन बिल्कुल प्रदूषण नहीं करते।

FACT | तथ्य

EVs have no tailpipe, so they cut street-level smoke sharply – a big gain for cities like Delhi. But they still release dust from tyres, brakes and road wear, and most of India's electricity still comes from coal, so charging them causes emissions at the power plant. Making the battery also has an environmental cost. EVs are much cleaner, not zero-pollution.

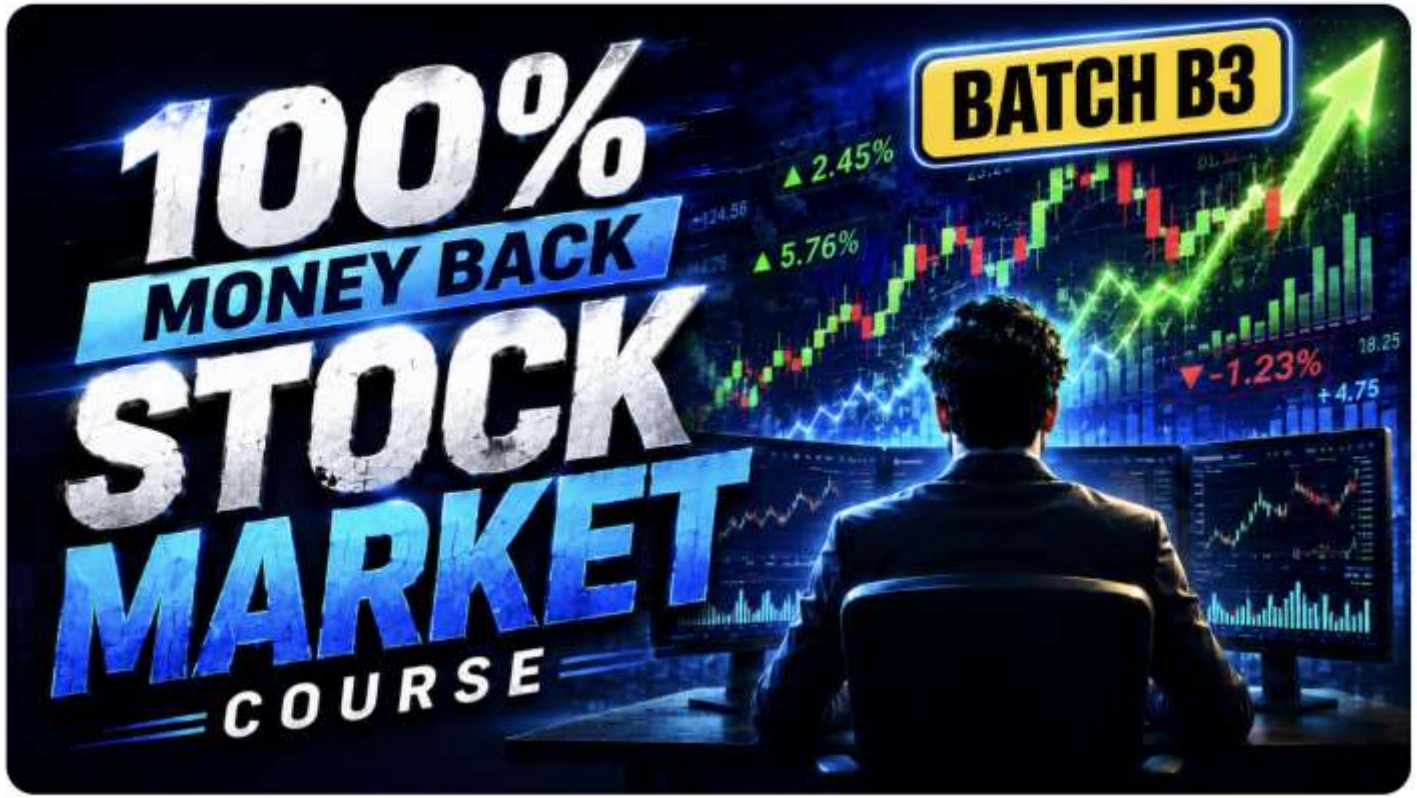
EV में धुआँ निकालने वाला पाइप नहीं होता, इसलिए सड़क पर प्रदूषण बहुत घटता है – दिल्ली जैसे शहरों के लिए बड़ा लाभ। पर टायर, ब्रेक और सड़क घिसने से धूल निकलती है, और भारत की ज़्यादातर बिजली अब भी कोयले से बनती है, इसलिए चार्जिंग का उत्सर्जन बिजलीघर पर होता है। बैटरी बनाने की भी पर्यावरणीय लागत है। EV कहीं अधिक स्वच्छ हैं, शून्य-प्रदूषण नहीं।

💡 **Cleaner is not the same as zero. | स्वच्छ का अर्थ शून्य नहीं।**

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