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“

*Where the mind is without fear and
the head is held high, where
knowledge is free.*

जहाँ मन भयमुक्त हो और सिर ऊँचा हो, जहाँ ज्ञान मुक्त हो।

— Rabindranath Tagore, Gitanjali



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Today's Current Affairs | 27 October 2026

आज के समसामयिक मुद्दे — The Hindu • Indian Express • Financial Express — 9 articles + exam
PYQs + MCQs + Myth Buster

1

Lula wins 4th term in
Brazil
ब्राज़ील में लूला

2

ECI: restraining CEC is
against law
चुनाव आयोग का हलफ़नामा

3

Ex-T.N. Minister held in
graft case
पूर्व मंत्री गिरफ़्तार

4

DAC clears ₹2.12 lakh cr
deals
₹2.12 लाख करोड़ रक्षा सौदे

5

Plant-based meat: better
protein uptake
पादप मांस

6

Student movement ousts
Serbia's Vučić
सर्बिया में सत्ता परिवर्तन

7

New antibody “cocktail”
for cobra bites
कोबरा विषरोधी

8

E100 notified for flex-fuel
vehicles
E100 ईंधन

9

Anthropic's IPO filing
एंथ्रोपिक IPO

THE HINDU • 27 OCT 2026

Page 1 • Front Page

पृष्ठ 1 • मुख पृष्ठ

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

1 Lula wins 4th term | लूला की जीत

2 ECI affidavit in SC | चुनाव आयोग

3 Ex-T.N. Minister held | पूर्व मंत्री गिरफ्तार



Lula wins 4th term in Brazil

ब्राज़ील में लूला

Lula beats far-right, wins 4th presidential term

Brazilian President makes a dramatic comeback after trailing in the first round against Bolsonaro

Lula secures a historic 64 million votes, defeating far-right leader by more than four million votes

Brazil is nobody's backyard, he says amid alleged U.S. meddling in election in favour of Bolsonaro

Shobhan Saxena
SAO PAULO

Luiz Inácio Lula da Silva secured a historic fourth presidential term, defeating Flávio Bolsonaro of Liberal Party (PL) in Brazil's runoff on Sunday. Lula secured 64 million votes, the highest total ever recorded in a Brazilian presidential election, defeating Mr. Bolsonaro by more than four million votes.

Declaring a "defeat for lies and denialism", Lula, 80, pledged to govern for all Brazilians and protect the country's sovereignty.

"Brazil is nobody's backyard," he declared at a midnight rally, sending a message to U.S. President Donald Trump as he said Brazil has defeated the far-right lies, foreign interference

and election meddling by social media firms.

An emotional Lula thanked women and older voters for their support and praised the mobilisation of youth on the streets and on social media.

"People went out to vote because we managed to convince them that their votes were extremely important to safeguarding democracy in the country," he said.

Lula secured an unprecedented comeback in the election. He trailed in the first round, receiving 45.16% of valid votes against 47.03% for Flávio.

Dramatic democracy

As the prospect of a Bolsonaro presidency caused a major concern among the young, especially about public education, health-



Aligned stars: Brazilian President Luiz Inácio Lula da Silva greets supporters outside his residence in São Paulo on Sunday. REUTERS

care and transport, millions joined weekly rallies across the country, pledging support for Lula and demanding protection of public services.

On Sunday, Lula told his young supporters that their voices have been heard.

"We will make increasing investment in the Un-

ified Health System, develop a national artificial intelligence system, continue to expand public universities and support the digital and creative econo-

mies," said Lula.

The turnaround after the first round of election on October 4 was not only historic but also dramatic. Lula's official campaign team almost took a back seat as millions of people came out on streets and joined the social media campaign.

With most opinion polls predicting a neck-to-neck race and some even giving an edge to Mr. Bolsonaro till a few days back, the Workers' Party shifted its messaging from a comparison of the candidates' personal records to a forward-looking agenda centred on concrete promises.

Even as Lula made his promises to the electorate, his campaign faced a big challenge: Big Tech firms openly supported Bolsonaro's campaign while sup-

pressing advertising by Lula's team.

In his speech on Sunday, Lula said he had to overcome "interference" by digital platforms and pledged to regulate big tech companies in Brazil.

"This election was one in which we had to overcome interference coming from outside and through digital platforms. We will have to regulate them," Lula said.

On October 16, after an expose in the Brazilian media, Meta had admitted that its artificial intelligence tool had blocked the generation of advertising material supporting Lula while allowing the same technology to be used by the Flávio campaign.

EDITORIAL: A FINAL SURGE

» PAGE 8

Trump's South America plans hit hurdle with Lula's triumph

NEWS ANALYSIS

Shobhan Saxena
SAO PAULO

Luiz Inácio Lula da Silva's victory against far-right candidate Flávio Bolsonaro in Sunday's presidential run-off in Brazil bucks the recent trend of right-wing waves in South America and is a setback for Washington's plans for the region.

U.S. President Donald Trump had repeatedly made clear that his preferred candidate in the race was Mr. Flávio. Even on Sunday night, Mr. Trump questioned Mr. Lula's victory, comparing it to the 2020 U.S. election which he lost to Joe Biden and alleged that Brazil had followed the "Joe Biden playbook".

Mr. Lula's victory is "a defeat for the United States' defence strategy in Latin America, based on the Shield of the Americas," said Celso Amorim, special foreign policy adviser to the Brazilian President. On Sunday night, the veteran diplomat hailed the result as "a great victory, made even greater by the circumstances."

He also ruled out any possibility of Brazil joining the Shield of the Americas, an alliance launched by Mr. Trump in March this year, ostensibly to combat drug trafficking in the region.

Mr. Lula's victory drew congratulations from leaders across Latin America, many of whom underscored the importance of democracy and continued cooperation with Brasília.



Luiz Inácio Lula da Silva gestures as he addresses supporters after his victory in the presidential poll, in São Paulo, on Monday. REUTERS

congratulations from leaders across Latin America, many of whom underscored the importance of democracy and continued cooperation with Brasília.

"Long live democracy" Leaders from Mexico, Chile, Paraguay, Bolivia, Panama and other countries welcomed the result in posts on X, Mexican President Claudia Sheinbaum celebrated Brazil's democratic process and popular participation, declaring: "Long live democracy, the people of Brazil have won. Congratulations, President Lula!"

Even as Brazil's historic election creates waves across the world, Mr. Flávio has refused to accept the result, announcing that he would seek its annulment. He accused the Federal Supreme Court of "changing the rules midway" after a judge ordered voting to be extended until 7 p.m. when Mr. Lula complained about many right-wing Mayors curtailing bus services in the poor areas in many cities. "It is impossible to recognise the election result in the context in which these things happened," said Mr. Flávio.

But on Monday, local media quoted three justices of the Supreme Court and Brazilian Election Commission as saying the decision to extend voting period by two hours is "unlikely to provide grounds for annulling the election or invalidating votes".

Mr. Lula, on his part, promised to change his approach to governing, ensure greater public participation in government decisions and give digital communication a more prominent role during his fourth term. "The future begins today, and its name is youth. I salute the women who made all the difference. I salute the older people who made sacrifices and made their way to polling stations," Mr. Lula said.

Lula Beats Far-right, Wins 4th Presidential Term

ब्राज़ील के राष्ट्रपति लूला दा सिल्वा ने दूसरे दौर में फ़्लावियो बोल्सोनारो को 40 लाख से अधिक मतों से हराकर चौथा कार्यकाल जीता – 6.4 करोड़ वोट, ब्राज़ील के इतिहास में सर्वाधिक



Brazil run-off
ब्राज़ील चुनाव

1 The result | परिणाम



64 million

Votes – all-time
high
रिकॉर्ड मत

4 million+

Winning margin
अंतर

80

Lula's age
आयु

4th

Presidential
term
कार्यकाल

2 Lula's message लूला का संदेश



► “Brazil is nobody's
backyard” – aimed at
Trump

किसी का पिछवाड़ा नहीं

► “Defeat for lies and
denialism”

झूठ की हार

► Promise to regulate Big
Tech platforms

बिग टेक नियमन

3 Why he came back वापसी के कारण



► Youth rallies for health,
education, transport
युवा आंदोलन

► Shift to forward-looking
promises
ठोस वादे

► Support of women &
older voters
महिलाएँ, बुजुर्ग

Lula wins 4th term in Brazil — in depth (1/2)

ब्राज़ील में लूला — विस्तार से (1/2)

4

Big Tech row
बिग टेक विवाद



- ▶ Platforms accused of **favouring Bolsonaro**
पक्षपात
- ▶ **Meta** admitted its AI blocked pro-Lula ads (16 Oct)
मेटा की स्वीकारोक्ति
- ▶ Lula: “**interference** from outside & platforms”
बाहरी हस्तक्षेप

5

Setback for Washington
अमेरिका को झटका



- ▶ Trump backed **Flávio Bolsonaro**
ट्रंप का समर्थन
- ▶ Brazil rules out “**Shield of the Americas**” alliance
गठबंधन से इनकार
- ▶ Bucks **right-wing wave** in South America
दक्षिणपंथी लहर

6

Disputed result | विवाद



- ▶ Flávio seeks **annulment**
रद्द करने की माँग
- ▶ Objects to **2-hour voting extension**
मतदान अवधि
- ▶ Judges say it's **no ground** to annul
आधार नहीं

Lula wins 4th term in Brazil — in depth (2/2)

ब्राज़ील में लूला — विस्तार से (2/2)

7 Lula's political journey | राजनीतिक सफ़र



Union leader
मज़दूर नेता

Metalworker
धातुकर्मी



2003–2010
2003–10

Two terms
दो कार्यकाल



2018–19
2018–19

Jailed, later
annulled
जेल



2023 → 2027
2023 → 27

3rd & 4th terms
तीसरा, चौथा

8 Did you know? क्या आप जानते हैं?



► Brazil is the only Latin American country speaking **Portuguese**

पुर्तगाली

► Brazil hosted **COP30** at **Belém** (2025)

COP30

Year / period	What happened	Presidential status
2002	Lula won the presidential election.	President-elect
2003–2006	Served his first term.	President
2006	Won re-election.	Re-elected
2007–2010	Served his second consecutive term.	President
2011–2022	Out of the presidency; other leaders held office.	Former president
2022	Defeated incumbent Jair Bolsonaro in the presidential election.	President-elect
2023–2026	Returned to office for his third term.	President
25 October 2026	Defeated Flávio Bolsonaro in the runoff.	Re-elected president
From 5 January 2027	Scheduled to begin his fourth term.	President

Lula wins 4th term in Brazil — background (1/2)

ब्राज़ील में लूला — पृष्ठभूमि (1/2)

9 Brazil at a glance ब्राज़ील



Fact तथ्य	Detail विवरण
Capital राजधानी	Brasília
Rank by area क्षेत्रफल	5th largest in world
Big river नदी	Amazon
Grouping समूह	BRICS founder, G20

10 India–Brazil ties भारत–ब्राज़ील



- **Strategic partners** since 2006
रणनीतिक साझेदारी
- Together in **BRICS, IBSA, G4, BASIC**
समूह
- Trade in **crude, sugar, soybean oil**
व्यापार

11 Brazil's system शासन प्रणाली



- **Presidential** federal republic
अध्यक्षीय
- Run-off if no one gets **50%+** in round 1
दो दौर
- **4-year** term; Congress = Senate + Chamber
4 वर्ष

Lula wins 4th term in Brazil — background (2/2)

ब्राज़ील में लूला — पृष्ठभूमि (2/2)

12 Latin America's political pendulum | लैटिन अमेरिका



“Pink tide”
वामपंथ

2000s
2000 का दशक



Right wave
दक्षिणपंथ

Argentina, Chile
etc.
हाल में



US pressure
अमेरिकी दबाव

Tariffs, alliances
शुल्क



Brazil 2026
ब्राज़ील

Left holds
वाम बरकरार

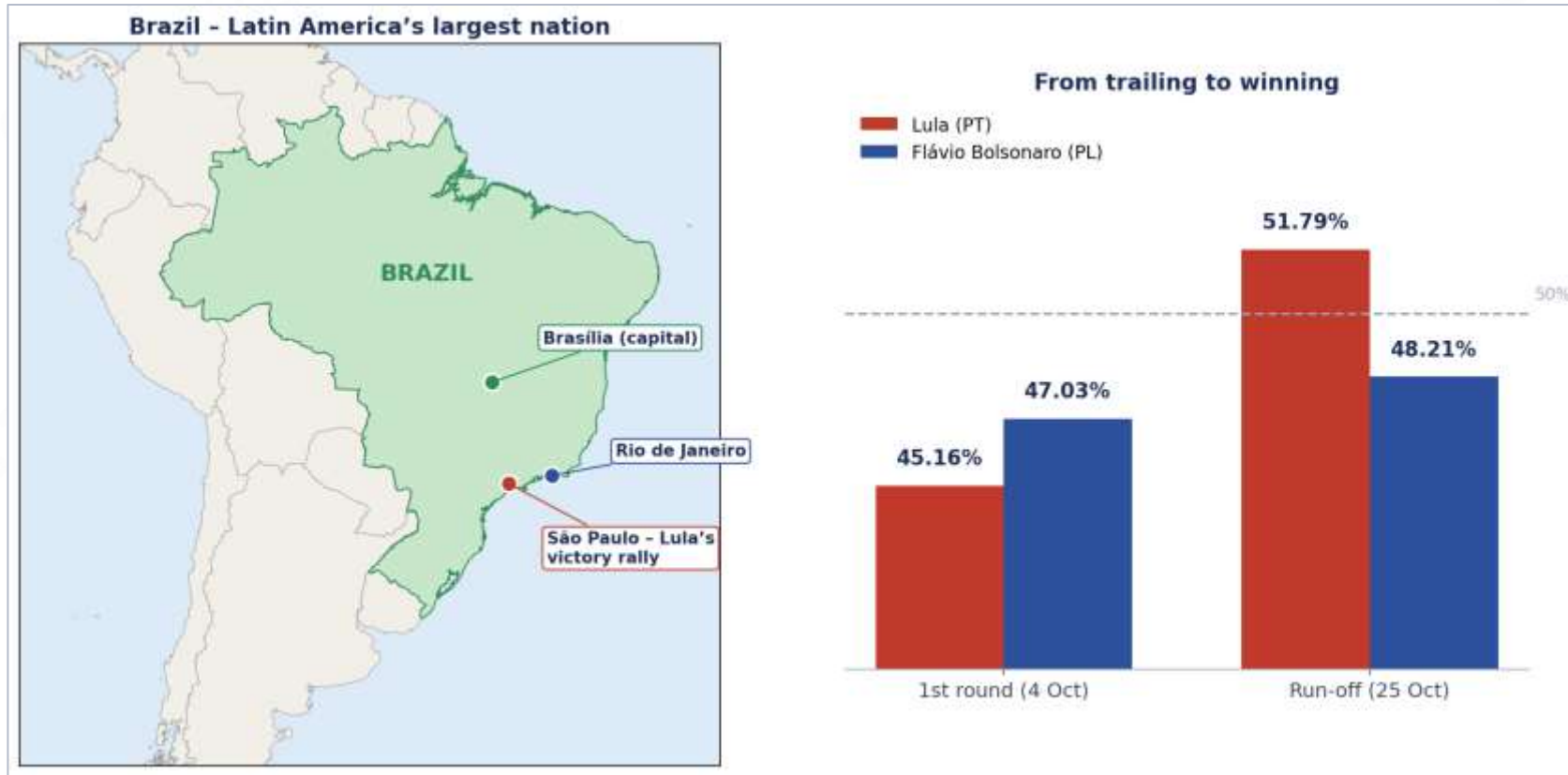
13 Indians in news: South America महाद्वीप



- ▶ **12** sovereign countries
12 देश
- ▶ Longest range: **Andes**
एंडीज़
- ▶ Driest desert: **Atacama**
(Chile)
अटाकामा

Lula wins 4th term in Brazil — Map & Diagram

ब्राज़ील में लूला — मानचित्र व आरेख



Read the visual
चित्र को समझें

► Capital **Brasília**; rally in **São Paulo**
राजधानी ब्रासीलिया

► Trailed in **1st round**:
45.16% vs 47.03%
पहला दौर

► Won **run-off** ~51.8%
दूसरा दौर

► Brazil = **largest country** of South America
सबसे बड़ा देश

ECI: restraining CEC is against law

चुनाव आयोग का हलफ़नामा

Bid to restrain functioning of CEC against law: ECI to SC

Krishnaadas Rajanipal
NEW DELHI

The Election Commission of India (ECI), Chief Election Commissioner (CEC) Gyanesh Kumar, and the two Election Commissioners (ECs) have filed a joint affidavit highlighting that any attempt to restrain the functioning of the CEC will be contrary to the law.

The nearly 250-page document, filed in the top court late on Monday, said a CEC cannot be removed from office except in the manner and the grounds identical to ousting a Supreme Court judge.

The affidavit said a media report on the inner functioning and alleged unilateral or authoritarian functioning of the CEC was hardly evidence in court. Petitions basing itself on media reports should not be even maintainable in court.

Petitioners who have challenged the functioning of the CEC include the Leader of the Opposition in the Lok Sabha and other INDIA bloc leaders. The affidavit, which shows the CEC to be on the same page as both ECs Subhir Singh Sandhu and Vivek Joshi, said the commission had "neither released nor authorised the release of any internal note or file to any news agency".

"Rule of majority"
They submitted the multi-member Commission, in case of any "difference of opinion" would follow the rule of majority to arrive at decisions in accordance with Section 18 of the Chief Election Commissioners and Other Election Commissioners (Appointment, Conditions of Service and Term of Office) Act, 2023.

The affidavit indicated that there was no room for unilateral decision making in the ECI. Decisions were vetted at various levels.

Decisions are first sent to one Election Commissioner and then to the other Election Commissioner and then finally to the CEC. Such approved decisions of the EC are duly noted in the files concerned of the EC and bear the signature of the Election Commissioners and the CEC. Thereafter, the decision is notified and implemented by the EC Secretariat.

ECI AFFIDAVIT IN SC

"Decisions are first sent to one Election Commissioner and then to the other Election Commissioner and then finally to the CEC. Such approved decisions of the EC are duly noted in the files concerned of the EC and bear the signature of the ECs and the CEC. Thereafter, the decision is notified and implemented by the EC Secretariat," the affidavit said.

However, the ECI codifies in the affidavit that "when it is not feasible for the CEC or any of the ECs to be available in person", an approval of the members of the ECI is obtained through "electronic means" and recorded later in the official file.

"Important functions" were "directly under the Commission as a whole". "Decisions taken in meetings of the EC or are noted in files bear the signatures of the ECs and the CEC," the affidavit said.

An office order was issued on July 28, by an IAS officer of the rank of additional secretary, who had been posted on deputation to the ECI, pertaining to internal work allocation.

The affidavit, however, indirectly confirmed that Mr. Sandhu and Mr. Joshi had written to the Cabinet Secretary about the conduct of Senior Deputy Election Commissioner Manoj Kumar, following a controversial July 28 order

affecting levels of IT oversight over electoral rolls. The order was passed without the knowledge or consensus of the two ECs.

"No change in Form 6"

"On July 28, the two ECs had written separate letters to the Cabinet Secretary in relation to this order and the conduct of the officer," the affidavit said. It said that the July 28 order was "never implemented".

The ECI denied allegations that Form 6 was amended in consecutive special intensive revision (SIR) orders of June 24, 2025; October 27, 2025; and May 14, 2026. It reasoned that the additional declaration form requiring voters to provide details of mapping was "not part of Form 6, which is the statutory form for inclusion in the electoral roll".

"The declaration form is one of the documents which is required to be submitted by any applicant along with Form 6 for inclusion in the electoral roll during the SIR exercise," it said.

The poll body said that the "existing concept" in the additional declaration form only obviated the need for submitting further documents for verification. It was only a "measure taken for the assistance of voters".

"There is no change in the Form 6," it said.

Bid to Restrain Functioning of CEC against Law: ECI to SC

चुनाव आयोग, मुख्य चुनाव आयुक्त ज्ञानेश कुमार और दोनों चुनाव आयुक्तों ने सुप्रीम कोर्ट में संयुक्त हलफ़नामा दिया – CEC के कामकाज पर रोक का प्रयास क़ानून के विरुद्ध



Joint affidavit
संयुक्त हलफ़नामा

1 Key claims | मुख्य दावे



- ▶ ~250-page joint affidavit
250 पृष्ठ
- ▶ Media reports **not evidence** in court
मीडिया रिपोर्ट सबूत नहीं
- ▶ No internal note **leaked/authorised** by ECI
कोई लीक नहीं

2 Who's involved | कौन



- ▶ CEC Gyanesh Kumar
ज्ञानेश कुमार
- ▶ ECs Sukhbir Singh Sandhu, Vivek Joshi
दो आयुक्त
- ▶ Petitioners incl. **LoP** & INDIA bloc leaders
याचिकाकर्ता

3 The July 28 order 28 जुलाई आदेश



- ▶ Issued by Sr Deputy EC Maneesh Garg
मनीष गर्ग
- ▶ On IT oversight of electoral rolls
IT निगरानी
- ▶ Two ECs wrote to **Cabinet Secretary**; order “**never implemented**”
लागू नहीं

ECI: restraining CEC is against law — in depth (1/2)

चुनाव आयोग का हलफ़नामा — विस्तार से (1/2)

4 Form 6 row | फ़ॉर्म 6



- ▶ **Form 6** = new voter enrolment
नया मतदाता
- ▶ ECI: **no change** in Form 6
कोई बदलाव नहीं
- ▶ Extra **declaration form** in SIR is separate
अलग घोषणा पत्र

5 Remote approvals इलेक्ट्रॉनिक मंजूरी



- ▶ When members unavailable, **electronic approval**
इलेक्ट्रॉनिक
- ▶ Recorded **later** in the file
बाद में दर्ज
- ▶ “Important functions” with **Commission as whole**
पूरा आयोग

6 SIR dates cited | SIR आदेश



- ▶ **24 June 2025**
जून 2025
- ▶ **27 Oct 2025**
अक्टूबर 2025
- ▶ **14 May 2026**
मई 2026

Point	Earlier Form 6	Recent SIR-related process
Main purpose	Apply to add a person's name to the electoral roll.	The purpose of Form 6 remains the same.
Who applies?	Eligible new voters, including those turning 18.	Eligible new voters and, where applicable, people whose names were deleted and who are applying for inclusion again.
Information requested	Applicant's personal details, age, residence and citizenship declaration, supported by applicable documents.	Form 6 continues; an additional SIR declaration has been used alongside it in the SIR process.
Parents' or grandparents' details	The ordinary form did not require everyone to map their family to an old SIR roll.	The additional declaration can ask for details of the applicant, parents or grandparents in an earlier SIR electoral roll.
Why use old roll details?	Not an ordinary family-mapping step in Form 6.	The ECI says successful mapping to an earlier roll could allow the applicant to avoid submitting further documents during the claims-and-objections period.
Current position	Ordinary Form 6 was used outside SIR-specific arrangements.	The additional declaration was removed from the online process in states where SIR had ended. Requirements depend on the applicable local revision process.

ECI: restraining CEC is against law — in depth (2/2)

चुनाव आयोग का हलफ़नामा — विस्तार से (2/2)

7 How a voter gets enrolled | नामांकन प्रक्रिया



Form 6
फ़ॉर्म 6

Online / BLO
ऑनलाइन



BLO checks
सत्यापन

Field visit
घर जाकर



ERO decides
ERO निर्णय

Claims/objections
आपत्तियाँ



EPIC issued
पहचान पत्र

Name in roll
सूची में

8

Did you know?
क्या आप जानते हैं?



► **25 January is National Voters' Day** – ECI's foundation day (1950)

राष्ट्रीय मतदाता दिवस

► **Form 7 = objection/deletion; Form 8 = correction**

फ़ॉर्म 7, 8

ECI: restraining CEC is against law — background (1/2)

चुनाव आयोग का हलफ़नामा — पृष्ठभूमि (1/2)

9 ECI – constitutional basics संवैधानिक आधार



Article अनुच्छेद	Deals with विषय
324 324	Superintendence of elections
325 325	One general roll, no discrimination
326 326	Adult suffrage (18+)
329 329	Courts' bar in poll matters

10 CEC & ECs Act, 2023 2023 अधिनियम



- ▶ Selection panel: **PM, LoP, a Union Minister**
चयन समिति
- ▶ Replaced CJI on panel (after **Anoop Baranwal**, 2023)
अनूप बरनवाल
- ▶ **Sec 18**: decisions by majority
धारा 18

11 From one to three एक से तीन

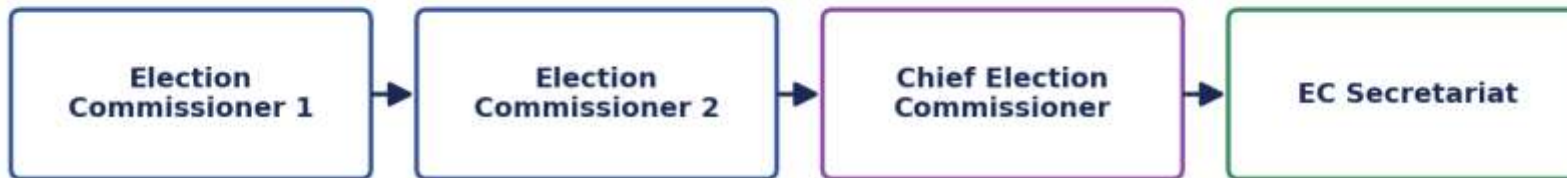


- ▶ Single-member body till **1989**
1989 तक एक सदस्य
- ▶ Multi-member since **1993**
1993 से बहु-सदस्यीय
- ▶ Upheld in **T.N. Seshan v. UoI (1995)**
शेषन मामला

ECI: restraining CEC is against law — Map & Diagram

चुनाव आयोग का हलफ़नामा — मानचित्र व आरेख

How the Election Commission decides - as per the affidavit



File signed by all three → notified & implemented • Disagreement → majority rule (Sec 18, 2023 Act)

Removal of CEC

Only like a Supreme Court judge -
special majority in both Houses
(Art 324(5))

Removal of ECs

Only on the recommendation
of the CEC
(Art 324(5) proviso)

Read the visual चित्र को समझें

- Files move **EC → EC → CEC → Secretariat**
फ़ाइल क्रम
- Disagreement → **majority rule**
बहुमत
- CEC removal = **like an SC judge**
CEC हटाना
- ECs removed only on **CEC's advice**
EC हटाना

Ex-T.N. Minister held in graft case

पूर्व मंत्री गिरफ्तार

Former T.N. Minister held in multi-crore graft case

S. Vijay Kumar
CHENNAI

Hours after his anticipatory bail plea was dismissed by the Madras High Court on Monday, former DMK Minister Anbil Mahesh Poyyamozhi was arrested by the Chennai police in connection with an alleged multi-crore scam.

According to police sources, a special team of the Central Crime Branch (CCB), which is investigating allegations that several crores of rupees were collected as 'party fund' from various private school managements across Tamil Nadu, arrested Mr. Poyyamozhi, who was the School Education Minister between 2021 and 2026.

'Fleeced schools'

The case arises from a complaint lodged with the Chennai Police Commissioner by C. Elangovan, secretary of the Tamil Nadu



Under scanner: Former DMK Minister Anbil Mahesh Poyyamozhi being taken into custody. SPECIAL ARRANGEMENT

Private Schools Federation, accusing B.T. Arasakumar, 59, of having collected large sums of money by running an unregistered association named the 'Tamil Nadu Private Schools Association'.

The CCB had included Mr. Poyyamozhi as an ac-

cused in the case after evidence emerged during the inquiry pointing to his involvement in the alleged corruption.

The complainant alleged that Mr. Arasakumar, who was later detained under the Goondas Act, had collected money from priv-

ate school managements by promising to offer services such as obtaining approvals for upgrading schools, getting permanent recognition, and securing building plan approvals, using his supposed clout in the then-ruling dispensation, the sources said.

Muthukumar, a close associate of Mr. Poyyamozhi, was allegedly involved in the scam to the tune of about ₹100 crore. "He is absconding and efforts are on to apprehend him at the earliest. We are tracking some clues that might lead to his location," a police officer said.

'Political vendetta'

This is the first arrest of a senior DMK party functionary and former Minister after the Tamilaga Vettri Kazhagam (TVK) came to power, sweeping the DMK out of office.

Former Chief Minister

M.K. Stalin strongly condemned Mr. Poyyamozhi's arrest, terming it an act of "political vendetta".

In an official statement, Mr. Stalin accused the ruling administration of attempting to divert public attention from governance failures. "By arresting Anbil Mahesh, who has been fully cooperating with the probe into the allegations against him, the ruling government believes it can divert public attention and cover up the deplorable collapse of law and order and rotting administrative breakdown for a few days. Anbil Mahesh will face the allegations against him legally," Mr. Stalin said.

In a late development, PTI reported that Mr. Poyyamozhi was produced before the Special Court for cases under the Prevention of Corruption Act here at 10.10 p.m. after a medical check-up at a government hospital.

Former T.N. Minister Held in Multi-crore Graft Case

मद्रास हाई कोर्ट से अग्रिम जमानत याचिका खारिज होने के कुछ घंटे बाद पूर्व DMK स्कूल शिक्षा मंत्री अनबिल महेश पोय्यामोझी को निजी स्कूलों से “पार्टी फंड” वसूली घोटाले में गिरफ्तार किया गया



Tamil Nadu
तमिलनाडु

1 The arrest | गिरफ्तारी



- ▶ **Anbil Mahesh Poyyamozi** – School Education Minister **2021–26**
पूर्व मंत्री
- ▶ By Chennai **Central Crime Branch**
CCB
- ▶ Produced before **PC Act special court**
विशेष अदालत

2 The allegation | आरोप



- ▶ Crores collected as “**party fund**”
पार्टी फंड
- ▶ From **private school managements**
निजी स्कूल
- ▶ Via an **unregistered “association”**
अपंजीकृत संघ

3 Political angle राजनीतिक पहलू



- ▶ First arrest of a senior DMK leader after **TVK** came to power
पहली गिरफ्तारी
- ▶ **M.K. Stalin**: “**political vendetta**”
बदले की राजनीति
- ▶ Claims it diverts from **governance failures**
ध्यान भटकाना

Ex-T.N. Minister held in graft case — in depth (1/2)

पूर्व मंत्री गिरफ्तार — विस्तार से (1/2)

4

Who complained
शिकायतकर्ता



- ▶ **C. Elangovan**, T.N. Private Schools Federation
एलंगोवन
- ▶ Accused **B.T. Arasakumar** (59) of the fake body
अरसकुमार
- ▶ Arasakumar detained under **Goondas Act**
गुंडा अधिनियम

5

What schools were
promised
वादे



- ▶ **Upgradation** approvals
उन्नयन
- ▶ **Permanent** recognition
स्थायी मान्यता
- ▶ **Building-plan** approvals
भवन नक्शा

6

Why it matters | महत्व



- ▶ Regulatory power **misused** for money
शक्ति का दुरुपयोग
- ▶ Costs passed to **parents via fees**
फ़ीस
- ▶ Hurts trust in **school** regulation
विश्वास

Ex-T.N. Minister held in graft case — in depth (2/2)

पूर्व मंत्री गिरफ्तार — विस्तार से (2/2)

7 From arrest to trial | गिरफ्तारी से मुकदमा



Arrest
गिरफ्तारी

Within 24 hrs
24 घंटे में



**Magistrate/Spe
cial Court**
अदालत

Remand
रिमांड



Charge sheet
आरोप पत्र

60/90 days
60/90 दिन



Trial
सुनवाई

Special Judge
विशेष न्यायाधीश

8 Did you know? क्या आप जानते हैं?



► **Art 22(2):** arrested person must be produced before a magistrate within **24 hours**

अनु. 22(2)

► Tamil Nadu's preventive detention law is the **“Goondas Act” (1982)**
गुंडा अधिनियम

Ex-T.N. Minister held in graft case — background (1/2)

पूर्व मंत्री गिरफ्तार — पृष्ठभूमि (1/2)

9 Bail – types जमानत के प्रकार



Type प्रकार	When कब
Regular bail नियमित	After arrest
Anticipatory अग्रिम	Before arrest – BNSS Sec 482
Interim अंतरिम	Temporary, till hearing
Default डिफॉल्ट	Charge sheet not filed in time

10 PC Act at a glance भ्रष्टाचार निवारण



- ▶ **1988 Act**, amended **2018**
1988, 2018
- ▶ Punishment **3–7 years** for bribery
3–7 वर्ष
- ▶ Tried by **Special Judges**
विशेष न्यायाधीश

11 State anti-graft bodies राज्य संस्थाएँ



- ▶ **Lokayukta** – first in **Maharashtra (1971)**
लोकायुक्त
- ▶ **Directorate of Vigilance & Anti-Corruption (TN)**
DVAC
- ▶ State **Crime Branch** for big frauds
क्राइम ब्रांच

Ex-T.N. Minister held in graft case — background (2/2)

पूर्व मंत्री गिरफ्तार — पृष्ठभूमि (2/2)

12 Preventive vs punitive detention | निवारक बनाम दंडात्मक



Preventive
निवारक

Stop future harm
भविष्य



Art 22(3)–(7)
अनु. 22

Safeguards
सुरक्षा



Punitive
दंडात्मक

For crime done
अपराध



Advisory Board
सलाहकार बोर्ड

Beyond 3 months
3 माह

13 Education regulation in States स्कूल नियमन



► Education is in the
Concurrent List (since
1976)

समवर्ती सूची

► States grant
recognition to private
schools

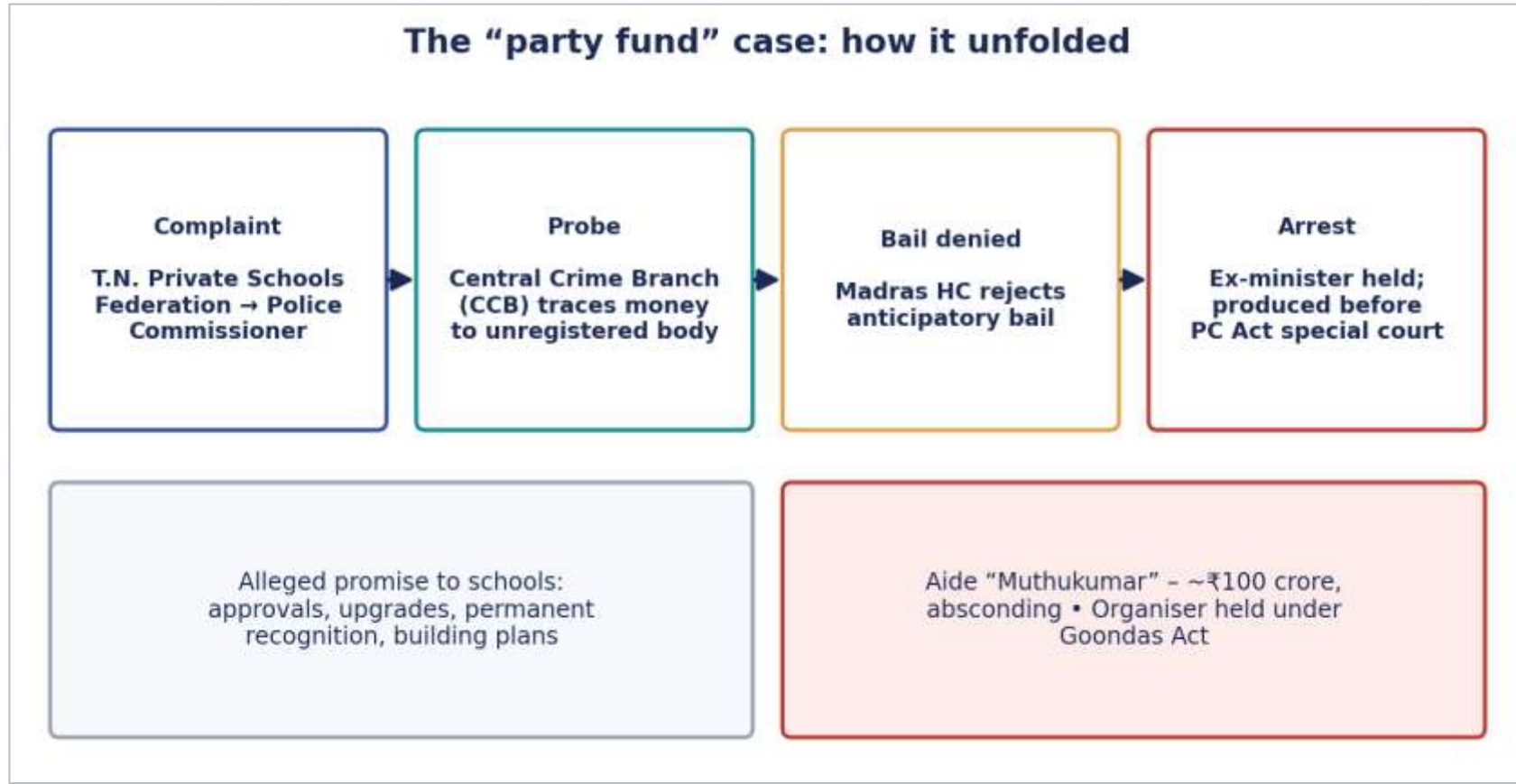
मान्यता

► **RTE Act 2009** sets
school norms

RTE

Ex-T.N. Minister held in graft case — Map & Diagram

पूर्व मंत्री गिरफ्तार — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Complaint → CCB probe → bail denied → arrest
क्रम
- Schools promised approvals & recognition
वादे
- Aide accused of ~₹100 crore
₹100 करोड़
- Organiser held under Goondas Act
गुंडा अधिनियम

IN BRIEF



4 killed in M.P. as car catches fire after falling into culvert

Four people were killed and two injured in Madhya Pradesh's Chhatar district, after their car caught fire as it fell into a culvert, police said on Monday. According to police, the car fell into a culvert in the village of Chhatar. The car caught fire and the driver was killed. Two other people were killed and two were injured. The car was a Maruti Suzuki Swift. The police are investigating the cause of the accident.

No relaxation of bail terms for riot accused, rules top court

The Supreme Court on Monday refused to relax bail conditions for riot accused, ruling that the bail conditions for riot accused are not to be relaxed. The court said that the bail conditions for riot accused are not to be relaxed. The court said that the bail conditions for riot accused are not to be relaxed. The court said that the bail conditions for riot accused are not to be relaxed.

Five persons shot dead in Gawahati hotel; one held

The Hindu

Five persons were shot dead and one injured in a hotel in Gawahati, Assam, after a fight broke out between two groups of people. The police are investigating the case. One person was held in connection with the case. The police are investigating the cause of the fight.

A.P., Odisha step up evacuations as Cyclone Armb nears coast

With winds and alerts for seven districts in Andhra Pradesh for today, 471 pregnant women will be shifted to safer locations in Odisha. Odisha reaches 1200 deaths in five southern districts.

Andhra Pradesh government has directed all districts to step up evacuations as Cyclone Armb nears the coast. The government has directed all districts to step up evacuations. The government has directed all districts to step up evacuations.



Andhra Pradesh government has directed all districts to step up evacuations as Cyclone Armb nears the coast.

The cyclone is expected to hit the coast of Odisha and Andhra Pradesh. The government has directed all districts to step up evacuations. The government has directed all districts to step up evacuations.

3 paraded naked in Kolkata by kin of girl 3 held

The Hindu

Three people were paraded naked in Kolkata by the kin of a girl who was held. The police are investigating the case. The police are investigating the cause of the incident.

1 Plant-based meat beats traditional on protein bioavailability: study



A study has found that plant-based meat is a better source of protein than traditional meat. The study found that plant-based meat is a better source of protein than traditional meat. The study found that plant-based meat is a better source of protein than traditional meat.

The study found that plant-based meat is a better source of protein than traditional meat. The study found that plant-based meat is a better source of protein than traditional meat. The study found that plant-based meat is a better source of protein than traditional meat.

Several IITs have far fewer counsellors than recommended by UGC: RTI data



Several Indian Institutes of Technology (IITs) have far fewer counsellors than recommended by the University Grants Commission (UGC), according to RTI data. The data shows that several IITs have far fewer counsellors than recommended by the UGC.

The data shows that several IITs have far fewer counsellors than recommended by the UGC. The data shows that several IITs have far fewer counsellors than recommended by the UGC. The data shows that several IITs have far fewer counsellors than recommended by the UGC.

Crossword puzzle with clues and answers.

Sudoku puzzle and Lord Murugan settles debts article.

Plant-based meat: better protein uptake

पादप मांस

Plant-based meat beats traditional ones on protein bioavailability: study

Jacob Koshy
NEW DELHI

While plant-derived kababs may still struggle to replicate the taste and texture of meat from a tandoori joint, they may contain relatively more protein in a form that the body can absorb, according to a study presented on Monday.

In a collaboration between the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, and the Good Food Institute (GFI) India, a non-profit that promotes alternative proteins such as plant-based, fermentation-derived and cultivated meat, scientists investigated whether protein bioavailability (meaning protein in a form that's nutritively useful to the body) of traditional meat was the same as that of plant-based meat. Tests on five cooked plant-based pro-



The team used In vitro method for the study. GETTY IMAGES

ducts – two burger patties, a nugget and two seekh kababs – showed higher bioavailability percentages than their chicken counterparts, according to the findings presented at a press conference on Monday. The plant-based kababs scored 80.8% and 86.1% against 38.8% for chicken. The nugget scored 61.2% against 43.4%, and the patties re-

corded about 57% and 58% against 21.2%.

The findings do not mean plant-based meat is healthier, but only that they are nutritively comparable, as 'healthier' is a subjective term, Dr. Padma Ishwarya, senior scientist at GFI India, told *The Hindu*. "It's too much of a vague term. It's too broad a term...for health, we need to do further studies."

The chicken products held more crude protein and released more amino acids, the building blocks of protein, during digestion, and Dr. Ishwarya said more products and samples would be tested in the next phase. The work has not yet been published as a journal paper. "It is a report that is hosted on our website, but it is very much peer-reviewed," Dr. Ishwarya said. Two experts reviewed it, she said, adding that detailed manu-

scripts would follow. The team used in vitro method that simulated digestion in a laboratory. Samples went through a two-minute salivary phase, then a stomach phase with digestive enzymes at pH 2 to 3, and then an intestinal phase. The method follows INFOGEST, an internationally harmonised protocol, Dr. Ishwarya said.

The team added an ultrafiltration membrane chosen to mimic the pore size of the human intestine. Whatever passed through the membrane was deemed bioavailable.

Animal studies remain the gold standard, she said, but are tedious and require ethical clearances. The simulated method is faster and more reproducible. The team plans to conduct tests across laboratories next year so that NABL-accredited labs can use the method.

Plant-based Meat Beats Traditional Ones on Protein Bioavailability: Study

CSIR-IHBT पालमपुर और GFI इंडिया के अध्ययन में पाँच पादप-आधारित उत्पादों में चिकन की तुलना में अधिक प्रोटीन जैव-उपलब्धता मिली – यानी शरीर द्वारा अवशोषित होने योग्य रूप में



Alternative protein
वैकल्पिक प्रोटीन

1 Who did it | किसने किया

- ▶ **CSIR-IHBT**, Palampur (H.P.)
पालमपुर
- ▶ **Good Food Institute (GFI) India** – non-profit
GFI इंडिया
- ▶ Tested **5 cooked** plant products
5 उत्पाद

2 What it means | अर्थ

- ▶ **Bioavailability** = protein the body can use
जैव-उपलब्धता
- ▶ Products are **nutritively comparable**
पोषण तुलनीय
- ▶ Not proof they are **“healthier”**
स्वास्थ्यकर नहीं कहा

3 Where chicken wins चिकन बेहतर

- ▶ More **crude protein**
कुल प्रोटीन
- ▶ Released more **amino acids** during digestion
अमीनो अम्ल
- ▶ Taste & texture still a **gap** for plant meat
स्वाद

Plant-based meat: better protein uptake — in depth (1/2)

पादप मांस — विस्तार से (1/2)

4 Limits of the study सीमाएँ



- ▶ **Not yet** in a peer-reviewed journal
जर्नल में नहीं
- ▶ Lab (**in vitro**) model, not human trials
प्रयोगशाला
- ▶ **Animal studies** still the gold standard
पशु अध्ययन

5 Next steps | आगे



- ▶ More **products & samples**
अधिक नमूने
- ▶ **Multi-lab** tests next year
बहु-प्रयोगशाला
- ▶ Method for **NABL-accredited** labs
NABL

6 Kinds of alt-protein वैकल्पिक प्रोटीन



- ▶ **Plant-based** – soy, pea, wheat
पादप-आधारित
- ▶ **Fermentation-derived** – microbes
किण्वन
- ▶ **Cultivated** – grown from animal cells
कोशिका-संवर्धित

Plant-based meat: better protein uptake — in depth (2/2)

पादप मांस — विस्तार से (2/2)

7 How protein is digested | प्रोटीन पाचन



Mouth
मुँह

Chewing
चबाना



Stomach
आमाशय

Pepsin + HCl
पेप्सिन



Small intestine
छोटी आँत

Trypsin
ट्रिप्सिन



Absorbed
अवशोषण

Amino acids →
blood
रक्त

8 Did you know? क्या आप जानते हैं?



► Proteins are made of **20 amino acids**; 9 are “essential” (must come from food)

20 अमीनो अम्ल

► ICMR-NIN suggests ~**0.8 g protein per kg** body weight a day

0.8 ग्राम

Plant-based meat: better protein uptake — background (1/2)

पादप मांस — पृष्ठभूमि (1/2)

9 Measuring protein quality गुणवत्ता माप

Score मापक	Meaning अर्थ
PDCAAS PDCAAS	Older; capped at 1.0
DIAAS DIAAS	FAO 2013; ileal digestibility
Bioavailability जैव-उपलब्धता	Share actually absorbed

10 India's protein gap प्रोटीन की कमी

- ▶ Diets mostly **cereal-heavy**
अनाज आधारित
- ▶ **Pulses** – main plant protein
दालें
- ▶ Stunting tracked under **POSHAN Abhiyaan**
पोषण अभियान

11 About CSIR-IHBT | CSIR-IHBT

- ▶ At **Palampur, Himachal Pradesh**
पालमपुर
- ▶ Works on **Himalayan bioresources**
हिमालयी संसाधन
- ▶ One of **37 CSIR labs**
CSIR प्रयोगशाला

Plant-based meat: better protein uptake — background (2/2)

पादप मांस — पृष्ठभूमि (2/2)

12 Why alt-protein matters | महत्व



Livestock
पशुधन

High methane
मीथेन



Water & land
जल, भूमि

Huge use
अधिक उपयोग



Plant protein
पादप प्रोटीन

Lower footprint
कम उत्सर्जन



Food security
खाद्य सुरक्षा

Growing demand
माँग

13 Rules for such foods | नियम



► FSSAI Vegan Foods Regulations, 2022

वीगन विनियम

► Vegan logo required on packs

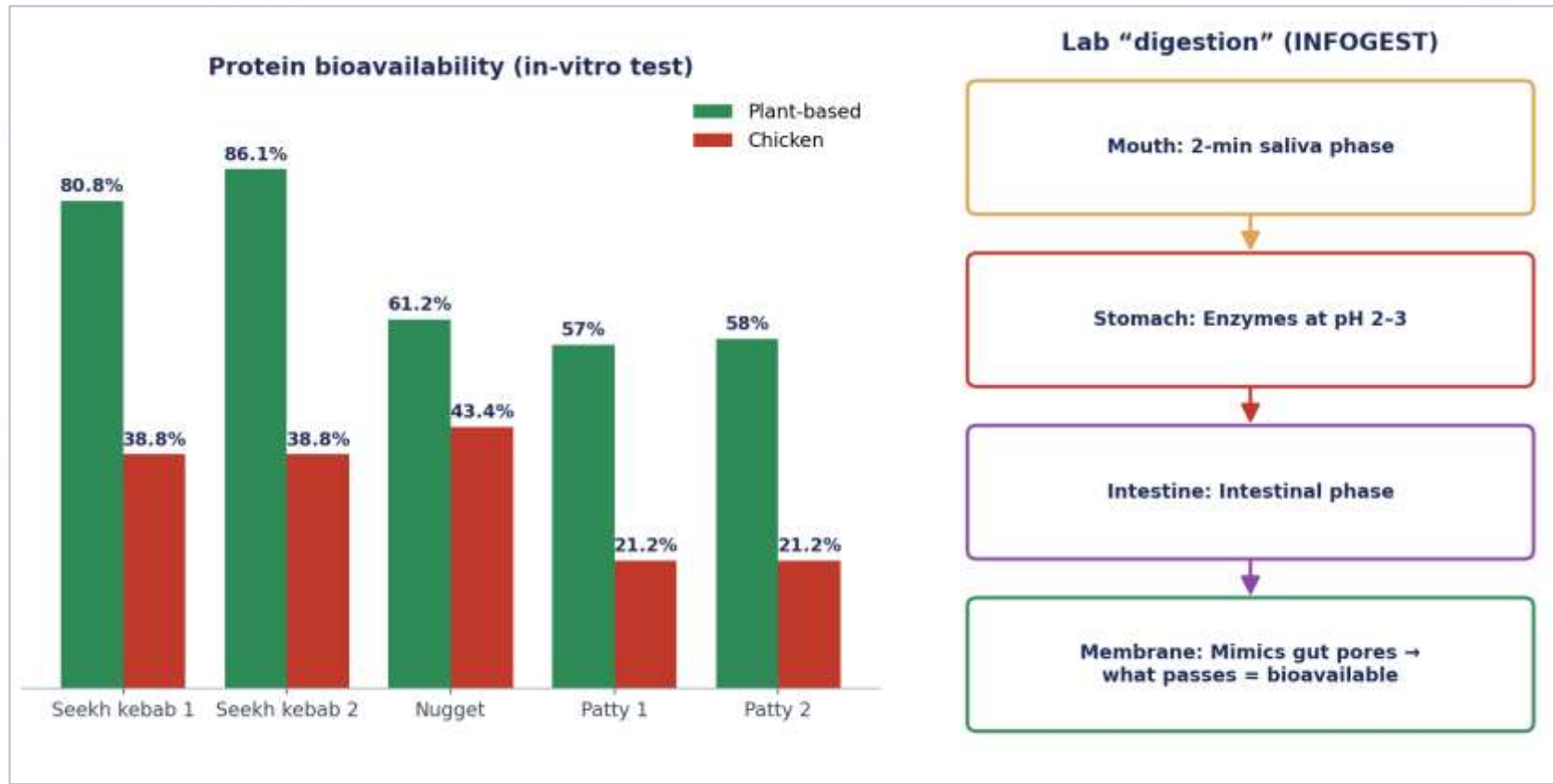
वीगन लोगो

► Cannot use misleading “meat” claims

भ्रामक दावे

Plant-based meat: better protein uptake — Map & Diagram

पादप मांस — मानचित्र व आरेख



Read the visual चित्र को समझें

► Kebabs: **80.8% & 86.1%** vs chicken **38.8%**
कबाब

► Patties: **57–58%** vs **21.2%**
पैटी

► Lab gut: **mouth → stomach → intestine**
प्रयोगशाला पाचन

► Membrane mimics **intestinal pores**
झिल्ली

WHAT THE HEALTH

FROM THE CREATORS OF THE AWARD WINNING FILM 'CONSPIRACY'



A DIETITIAN'S REVIEW OF WHAT THE HEALTH



EXECUTIVE PRODUCERS
JAMES CAMERON
SUZY AMIS CAMERON
ARNOLD SCHWARZENEGGER
JACKIE CHAN
LEWIS HAMILTON
NOVAK DJOKOVIC
CHRIS PAUL



FROM ACADEMY AWARD-WINNING DIRECTOR
LOUIE PSIHOYOS

FUELED BY THE TRUTH THE GAME CHANGERS

THE GAME CHANGERS is a production of Louie Psihoyos and James Cameron. It is a documentary film about the health of the world's most powerful athletes. The film is a collaboration between the two men and a team of filmmakers. It is a film that is both a documentary and a work of art. It is a film that is both a documentary and a work of art. It is a film that is both a documentary and a work of art.

www.louiepsihoyos.com

THE HINDU • 27 OCT 2026

Page 14 • World

पृष्ठ 14 • विश्व

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

1 Lula: news analysis | विश्लेषण

2 Serbia's Vucic ousted | सर्बिया



Student movement ousts Serbia's Vučić

सर्बिया में सत्ता परिवर्तन

Student-led movement ousts Serbia's Vucic in snap poll

Associated Press
BELGRADE

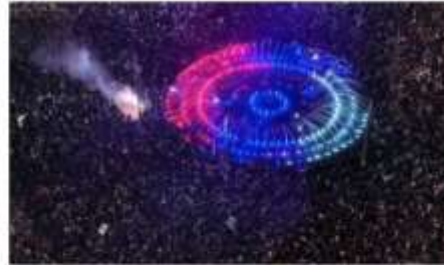
The long-serving strongman leader of Serbia, Aleksandar Vucic, conceded defeat on Sunday in a snap election that pitted him and his right-wing party against a diverse student-led opposition movement.

The victory in Sunday's parliamentary vote came after nearly two years of anti-government protests sparked by the 2024 collapse of a canopy at Novi Sad railway station that killed 16 people. It was a seismic political shift in the Balkan country where Mr. Vucic led with virtually absolute power for 14 years.

In conceding the election, Mr. Vucic said his party projects that his opponents, the youth-backed Students' List, will take between 135 and 140 seats in the 250-seat Assembly while his right-wing Serbian Progressive Party (SNS) will have around 105.

Alleges interference

"It is now clear that we have lost and the Students' List has won," Mr. Vucic told supporters at his party's election night event,



People celebrate a day after the student-led Opposition movement won the parliamentary election, in Belgrade on Monday. AP

though he blamed Serbia's independent media as well as alleged interference by unnamed European countries and an "American deep state" for the loss.

Near-record turnout of almost 70%, the Balkan nation's highest at a parliamentary election in more than three decades, likely drove the political upset.

Mr. Vucic said that his SNS party won around 1.7 million votes compared to the Students' List, which he said took around 2.2 million.

Radomir Saicic, a Students' List candidate, said "tonight is not just about results". "This is a victory over fear ... it is nobody's trophy, it is a citizens victory.

But victory carries responsibility," he added.

The Students' List movement was shaped by university students but none actually appeared on the election list. Instead, its candidates are little-known experts, athletes, farmers and artists.

This approach was meant to counter Mr. Vucic's one-man rule and restore a sense of community and solidarity.

The student victory echoed the recent electoral defeat of a Mr. Vucic ally in Hungary, where youth participation helped oust the autocratic Viktor Orbán after 16 years and bring in a new pro-European government.

Student-led Movement Ousts Serbia's Vučić in Snap Poll

14 वर्षों से सत्ता में रहे सर्बिया के राष्ट्रपति अलेक्जेंडर वुचिच ने छात्र-नेतृत्व वाले विपक्ष से चुनावी हार स्वीकार की – 2024 में नोवी साद स्टेशन की छत गिरने से भड़के आंदोलन का परिणाम



Balkans
बाल्कन

1 The vote | मतदान



~70%

Turnout – 30-yr
high
मतदान

~2.2 mn

Students' List
votes
छात्र सूची

~1.7 mn

SNS votes
SNS

14 yrs

Vučić's rule
शासन

2 The trigger | कारण



► 2024 Novi Sad station
canopy collapse – 16 dead
छत ढही

► ~2 years of anti-govt
protests

2 साल आंदोलन

► Anger at corruption &
one-man rule
भ्रष्टाचार

3 Vučić's reaction प्रतिक्रिया



► Conceded: “we have
lost”
हार स्वीकार

► Blamed independent
media
मीडिया पर आरोप

► Alleged European &
“American deep state”
meddling

विदेशी हस्तक्षेप

Student movement ousts Serbia's Vučić — in depth (1/2)

सर्बिया में सत्ता परिवर्तन — विस्तार से (1/2)

4

A new kind of opposition
नया विपक्ष



- ▶ **Students** shaped it but **didn't contest**
छात्र मार्गदर्शक
- ▶ Candidates: **experts, athletes, artists**
विशेषज्ञ उम्मीदवार
- ▶ “A **victory over fear**” — Radomir Saicic
भय पर विजय

5

Regional echo
क्षेत्रीय प्रभाव



- ▶ Follows defeat of **Viktor Orbán** in **Hungary**
हंगरी
- ▶ Youth turnout helping oust **strongmen**
युवा मतदाता
- ▶ Possible **EU tilt** for Serbia
EU की ओर

6

Why it matters for India
भारत के लिए



- ▶ Serbia **does not recognise Kosovo** — like India
कोसोवो
- ▶ Trade & **defence** contacts in Balkans
व्यापार
- ▶ Lesson on **youth movements** & democracy
युवा आंदोलन

Student movement ousts Serbia's Vučić — in depth (2/2)

सर्बिया में सत्ता परिवर्तन — विस्तार से (2/2)

7 How the protest became a win | आंदोलन से जीत



Tragedy
हादसा

Nov 2024
नवंबर 2024



**Student
marches**
छात्र मार्च

Nationwide
देशव्यापी



Citizens join
नागरिक जुड़े

Farmers, workers
किसान



Snap poll
चुनाव

Vučić ousted
सत्ता बदली

8 Did you know? क्या आप जानते हैं?



- **Nikola Tesla** was an ethnic Serb
निकोला टेस्ला
- Belgrade sits where the **Sava** meets the **Danube**
सावा-डेन्यूब

Student movement ousts Serbia's Vučić — background (1/2)

सर्बिया में सत्ता परिवर्तन — पृष्ठभूमि (1/2)

9 Serbia at a glance सर्बिया



Fact तथ्य	Detail विवरण
Capital राजधानी	Belgrade
Location स्थिति	Landlocked, Balkans
Parliament संसद	250-seat National Assembly
Status स्थिति	EU candidate since 2012

10 Breakup of Yugoslavia यूगोस्लाविया



- ▶ Wars of the **1990s**
1990 का दशक
- ▶ Montenegro split in **2006**
मोंटेनेग्रो
- ▶ Kosovo declared independence **2008**
कोसोवो

11 Serbia's balancing act संतुलन



- ▶ Seeks **EU** membership
EU
- ▶ Close to **Russia** (gas, Kosovo stand)
रूस
- ▶ Big **Chinese** investments
चीन

Student movement ousts Serbia's Vučić — background (2/2)

सर्बिया में सत्ता परिवर्तन — पृष्ठभूमि (2/2)

12 Youth-led change in 2024–26 | युवा आंदोलन



Bangladesh
बांग्लादेश

2024
2024



Nepal
नेपाल

Gen Z, 2025
2025



Hungary
हंगरी

Orbán out
ओरबान



Serbia
सर्बिया

2026
2026

13 Balkan countries बाल्कन देश



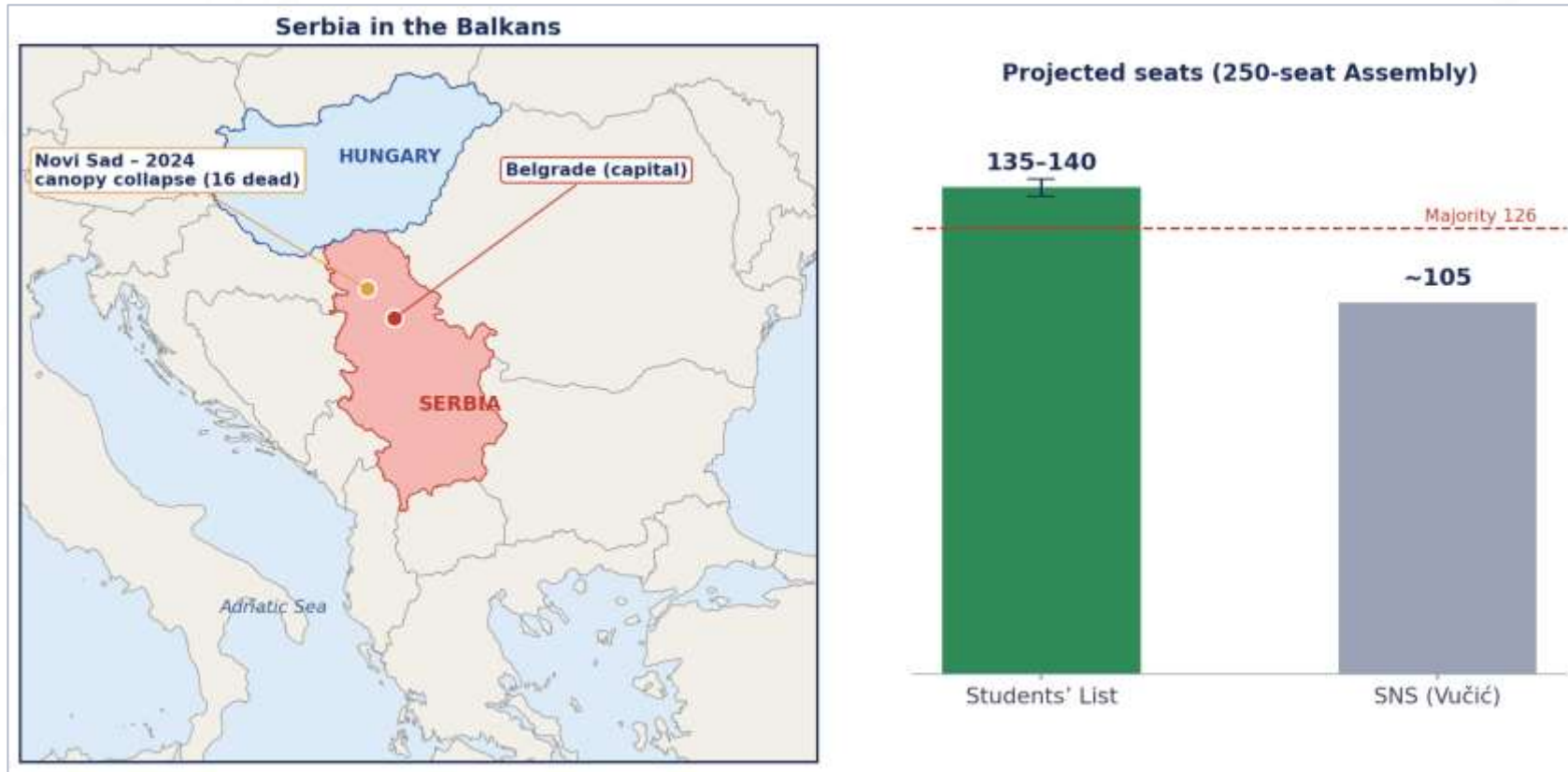
► Serbia, Croatia,
Bosnia, Montenegro
पश्चिमी बाल्कन

► North Macedonia,
Albania, Kosovo
दक्षिणी

► Bulgaria, Greece (EU
members)
EU सदस्य

Student movement ousts Serbia's Vučić — Map & Diagram

सर्बिया में सत्ता परिवर्तन — मानचित्र व आरेख



Read the visual
चित्र को समझें

► Capital **Belgrade**;
protests began at **Novi Sad**

बेलग्रेड, नोवी साद

► Landlocked **Balkan**
state

बाल्कन

► Students' List **135–140**
seats

135–140 सीटें

► Majority mark **126** of
250

बहुमत 126

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

1 Cobra antivenom “cocktail” | कोबरा विषरोधी

New antibody “cocktail” for cobra bites

कोबरा विषरोधी

• SCIENCE

A new ‘cocktail’ could help treat cobra bites

Arnav Chandrasekhar
Bengaluru, October 26

SCIENTISTS FROM IISc Bengaluru’s Centre for Ecological Sciences (CES) and the Technical University of Denmark (DTU) have created an antivenom that could potentially be used to treat snakebites from the diverse cobra species of India. The discoveries were published in the journal Science Translational Medicine.

Challenges in treatment

Cobras generally kill their prey using “neurotoxins” in their venom that paralyse their prey and stop them from breathing. Cardiac issues and other side effects have been observed in some cases of attacks on humans.

Government data from 2024 had estimated the annual snakebite fatalities at 50,000. The spectacled cobra (*Naja naja*), one of India’s “Big Four” venomous snake species, accounts for at least 12.5% of these snakebite deaths — this number could be higher, as the snake is not always identified by the victim.

India has several cobra species, and different species have different kinds of venom. Venom from the same species might vary in composition for cobras from different locations.

This poses a challenge when using antivenom. For example, while the Polyvalent antivenom is used in India



Spectacled cobra, RICKY MADRIPPA

• ‘BIG FOUR’

India’s “Big Four” venomous snake species are the spectacled cobra, the common krait, the Russell’s viper, and the saw-

to counter the venom of the Big Four snakes including the spectacled cobra, this would not work against king cobra venom.

Treatment is also complicated by the fact that rural victims often don’t reach healthcare centres in time, or end up at centres which may not have the required antivenom. Kartik Sunagar, an associate professor at CES, said antivenom treatment has essentially remained the same for the

the Russell’s viper, and the saw-scaled viper.

past century.

The new antivenom

Previously, Danish scientist Andreas Laustsen and his colleagues at DTU had tested a new method on certain African snakes. They took the blood of animals such as alpacas and llamas, which had been exposed to the venom of these snakes. Then, they extracted the antibodies that were formed.

A similar process was applied to create an “antibody cocktail” from India’s different cobra species. This was then tested on mice, which had been injected with venom from spectacled cobras, monocled cobras, and two species of king cobras. Even 30 minutes after venom injection, the antibody cocktail was able to save the test mice from death.

Future applications

Previously, such use of antibodies to counter venom in mice tests required a large amount of antibodies, which might mean that a huge dose would be needed for humans. But the current research, Sunagar said, “showed that it is possible to neutralise venom using very small amounts of carefully selected and engineered antibodies”. This could potentially help address some of the cost and safety concerns associated with administering large quantities of antibodies, he added.

Further, such a method could be used to create cures for snakebite venom of species across the world.

A New 'Cocktail' Could Help Treat Cobra Bites

IISc बेंगलुरु के CES और डेनमार्क की DTU के वैज्ञानिकों ने भारत की विभिन्न कोबरा प्रजातियों के विष के लिए एंटीबॉडी “कॉकटेल” विकसित किया – साइंस ट्रांसलेशनल मेडिसिन में प्रकाशित



Snakebite
सर्पदंश

1 The burden | बोझ



~50,000

Snakebite
deaths/yr
मौतें

12.5%+

By spectacled
cobra
नाग

4

“Big Four”
snakes
चार प्रमुख

~100 yrs

Same
antivenom
method
पुरानी विधि

2 How cobras kill | कोबरा विष



► Neurotoxins paralyse
prey

न्यूरोटॉक्सिन

► Stop breathing

श्वसन रुकना

► Some cases show
cardiac effects

हृदय प्रभाव

3 Treatment gaps इलाज की कमी



► Venom varies by
species & region
विविधता

► Polyvalent fails vs king
cobra
किंग कोबरा

► Rural victims reach care
late
देर से इलाज

New antibody “cocktail” for cobra bites — in depth (1/2)

कोबरा विषरोधी — विस्तार से (1/2)

4 The science | विज्ञान



- ▶ Based on **Andreas Laustsen's** (DTU) African-snake work
लॉस्टसेन
- ▶ Antibodies **selected & engineered**
चयनित एंटीबॉडी
- ▶ **Small doses** neutralise venom
कम मात्रा

5 Who's behind it | शोधकर्ता



- ▶ **Kartik Sunagar**, IISc CES
कार्तिक सुनगर
- ▶ **Technical University of Denmark**
DTU
- ▶ Journal: **Science Translational Medicine**
पत्रिका

6 Future use | भविष्य



- ▶ **Lower cost & side-effects**
कम लागत
- ▶ **Easier administration**
आसान उपयोग
- ▶ Model for **other species** worldwide
अन्य प्रजातियाँ

New antibody “cocktail” for cobra bites — in depth (2/2)

कोबरा विषरोधी — विस्तार से (2/2)

7 Snakebite first aid | प्राथमिक उपचार



Stay calm
शांत रहें

Limit movement
हिलें नहीं



Immobilise limb
अंग स्थिर

No tight
tourniquet
कसकर न बाँधें



Don't cut/suck
न काटें

No folk remedies
टोटके नहीं



Rush to hospital
अस्पताल

Antivenom
एंटीवेनम

8 Did you know? क्या आप जानते हैं?



► India has the **highest snakebite deaths** in the world

विश्व में सर्वाधिक

► WHO lists snakebite as a **Neglected Tropical Disease** (2017)

उपेक्षित रोग

New antibody “cocktail” for cobra bites — background (1/2)

कोबरा विषरोधी — पृष्ठभूमि (1/2)

9 India’s “Big Four” चार प्रमुख साँप



Snake साँप	Venom विष
Spectacled cobra नाग	Neurotoxic
Common krait करैत	Neurotoxic
Russell’s viper दबोईया	Haemotoxic
Saw-scaled viper फुरसा	Haemotoxic

10 National plan राष्ट्रीय योजना



- ▶ **NAPSE** – action plan launched **2024**
NAPSE
- ▶ Goal: **halve deaths by 2030**
2030 तक आधा
- ▶ Snakebite made **notifiable** in many states
अधिसूच्य रोग

11 King cobra facts किंग कोबरा



- ▶ World’s **longest venomous snake**
सबसे लंबा
- ▶ Genus **Ophiophagus** – eats snakes
साँप खाता
- ▶ Recently split into **4 species**
4 प्रजातियाँ

New antibody “cocktail” for cobra bites — background (2/2)

कोबरा विषरोधी — पृष्ठभूमि (2/2)

12 How antibodies neutralise venom | एंटीबॉडी



Toxin enters
विष प्रवेश

Blood
रक्त



Antibody
binds
बंधन

Lock & key
ताला-चाबी



Toxin blocked
विष निष्क्रिय

Can't act
असर नहीं



Cleared
निष्कासन

By body
शरीर द्वारा

13 Snakes & the law | क़ानून



► King cobra in **Schedule I**, Wildlife Act
अनुसूची I

► Snake charming
banned under WPA
सपेरा प्रतिबंध

► Venom extraction only
by **licensed** bodies (e.g.
Irula co-op)
इरुला

4 NEWLY IDENTIFIED TYPES OF KING COBRA



NORTHERN KING COBRA

Scientific name:
Ophiophagus hannah



SUNDA KING COBRA

Scientific name:
Ophiophagus bungarus



WESTERN GHATS KING COBRA

Scientific name:
Ophiophagus kaalinga



LUZON KING COBRA

Scientific name:
Ophiophagus salvatana

New antibody “cocktail” for cobra bites — Map & Diagram

कोबरा विषरोधी — मानचित्र व आरेख

Making antivenom: old horse method vs new antibody “cocktail”

Traditional (used for ~100 years)



New (IISc CES + DTU Denmark)



Covers spectacled cobra, monocled cobra and two king cobra species

Read the visual चित्र को समझें

- ▶ Old: **horse plasma** antivenom (~100 yrs)
पुरानी विधि
- ▶ New: **alpaca/llama** antibodies, engineered
नई विधि
- ▶ Saved mice **30 min** after venom
30 मिनट बाद
- ▶ Works for **king cobras** too
किंग कोबरा

ALPACA VS. LLAMA



SHORT
FACE

POINTED
EARS

150
POUNDS

15-20
YEARS

CURIOUS

GENERALLY
MELLOW

SPITS WHEN
SCARED OR
MAD

LONG
FACE

BANANA
EARS

350
POUNDS

20-25
YEARS

SOME WILL
ACT AS
GUARDS

GENERALLY
HIGH STRUNG

QUICKER
TO SPIT



Russian crude purchases may fall in Nov as West Asia oil viability improves: BPCL

[illegible][illegible][illegible]

the two words will get a "hooked" call that has been made from a machine in space.

the two words will get a "hooked" call that has been made from a phone in a specific

Anthropic discloses AI-related
risks to board, regulators

Anthropic discloses AI-related
risks to board, regulators

1

1

Page 15 · Economy

पृष्ठ 15 · अर्थव्यवस्था

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

1 E100 notified as auto fuel | E100 ईंधन

E100 notified for flex-fuel vehicles

E100 ईंधन

ONLY FOR FLEX-FUEL VEHICLES, NOT OTHERS

Govt notifies E100 as auto fuel

Dheeraj Mishra

New Delhi, October 26

AMID THE ongoing debate over the use of E20 fuel, the Ministry of Road Transport and Highways (MoRTH) Monday notified a key change in the Central Motor Vehicle Rules, allowing flex-fuel vehicles to run on up to E100 or nearly pure ethanol. This does not mean that every petrol car can use E100 now. The new regulation expands the range of fuels that can be used in vehicles and paves the way for the manufacturing and supply of more flex-fuel vehicle components, ethanol production infrastructure, and the deployment of such vehicles on the road.

hicles designed as flex fuel vehicles will not have material compatibility issues with E100. It also said that E85 or E100 shall be used in vehicles designed by the original equipment manufacturers as flex-fuel vehicles. This means that the vehicles that use normal fuel or E20 cannot use E100.

“Flex-fuel vehicles are specifically designed with fuel-system components and materials that are compatible with ethanol blends from E20 to E100. Vehicles designed as flex fuel vehicles will not have material compatibility issues. Motorists should check the fuel compatibility sticker on their vehicle and follow the manufacturer’s guidance in the owner’s manual

at the fuel station,” said the Ministry in its explanatory note on the amendment. It further said the advanced engine management systems will automatically adjust vehicle operation according to the fuel composition, ensure optimum performance under different driving conditions, and reduce dependence on imported crude oil.

“Ethanol has a lower fossil carbon footprint than conventional gasoline. The use of higher ethanol blends can help reduce tailpipe emissions of carbon monoxide and certain hydrocarbons, while contributing to lower lifecycle greenhouse-gas emissions, depending on the feedstock and production pathway,” said MoRTH. **FULL REPORT ON**

Govt Notifies E100 as Auto Fuel

सड़क परिवहन मंत्रालय ने केंद्रीय मोटर वाहन नियमों में बदलाव कर फ़्लेक्स-फ़्यूल वाहनों को E100 (लगभग शुद्ध एथेनॉल) तक पर चलने की अनुमति दी – हर पेट्रोल कार के लिए नहीं



Only flex-fuel
केवल फ़्लेक्स-फ़्यूल

1

What changed | क्या बदला



- ▶ **MoRTH amends Central Motor Vehicle Rules CMVR**
- ▶ Flex-fuel vehicles can run on **up to E100**
E100 तक
- ▶ **E85 or E100** only in OEM-designed FFVs
केवल FFV

2

What it doesn't mean
भ्रम दूर



- ▶ **Not** for every petrol car
हर कार नहीं
- ▶ Normal/E20 vehicles **can't use E100**
E20 वाहन नहीं
- ▶ Check the **fuel compatibility sticker**
स्टिकर देखें

3

Benefits claimed | लाभ



- ▶ Lower **fossil carbon** footprint
कम कार्बन
- ▶ Less **CO & hydrocarbon** emissions
कम उत्सर्जन
- ▶ Cuts **crude oil imports**
आयात कम

E100 notified for flex-fuel vehicles — in depth (1/2)

E100 ईंधन — विस्तार से (1/2)

4 How FFVs work | FFV कैसे



- ▶ Fuel-system parts **ethanol-resistant**
विशेष पुर्ज़े
- ▶ Engine management **auto-adjusts** to the blend
स्वतः समायोजन
- ▶ Run on any mix **E20–E100**
कोई भी मिश्रण

5 The E20 debate | E20 बहस



- ▶ Owners worry about **mileage drop**
माइलेज
- ▶ Fears of **engine wear** in older cars
इंजन घिसाव
- ▶ Govt says impact is **marginal**
मामूली असर

6 What it unlocks आगे की राह



- ▶ **FFV components** manufacturing
पुर्ज़े
- ▶ More **ethanol distilleries**
आसवनी
- ▶ Rollout of **FFVs** on roads
वाहन

E100 notified for flex-fuel vehicles — in depth (2/2)

E100 ईंधन — विस्तार से (2/2)

7 From field to fuel tank | खेत से टैंक तक



Feedstock
कच्चा माल

Cane, grain
गन्ना, अनाज



Distillery
आसवनी

Fermentation
किण्वन



OMCs
तेल कंपनियाँ

Blend at depots
मिश्रण



Pump
पंप

E20 / E100
ईंधन

8

Did you know?
क्या आप जानते हैं?



► 10 August is World Biofuel Day

विश्व जैव ईंधन दिवस

► Brazil runs most cars on high ethanol blends

ब्राज़ील मॉडल

E100 notified for flex-fuel vehicles — background (1/2)

E100 ईंधन — पृष्ठभूमि (1/2)

9 Generations of biofuel जैव ईंधन पीढ़ियाँ



Gen पीढ़ी	Source स्रोत
1G पहली	Sugarcane, grains
2G दूसरी	Crop waste, straw
3G तीसरी	Algae
4G चौथी	GM organisms, carbon capture

10 National Policy on Biofuels राष्ट्रीय नीति



- ▶ Notified **2018**, amended **2022**
2018, 2022
- ▶ E20 target advanced **2030 → 2025**
लक्ष्य पहले
- ▶ Allows **surplus grains** for ethanol
अतिरिक्त अनाज

11 2G ethanol plants 2G संयंत्र



- ▶ **PM JI-VAN Yojana** (2019)
जी-वन योजना
- ▶ **Panipat 2G plant** – IOCL (2022)
पानीपत
- ▶ Uses **paddy straw** – less stubble burning
पराली

E100 notified for flex-fuel vehicles — background (2/2)

E100 ईंधन — पृष्ठभूमि (2/2)

12 Food vs fuel concern | भोजन बनाम ईंधन



Grain to ethanol
अनाज

Maize, rice
मक्का, चावल



Prices rise
दाम बढ़ें

Feed, food
चारा



Water use
जल उपयोग

Cane is thirsty
गन्ना



Balance
संतुलन

2G push
2G

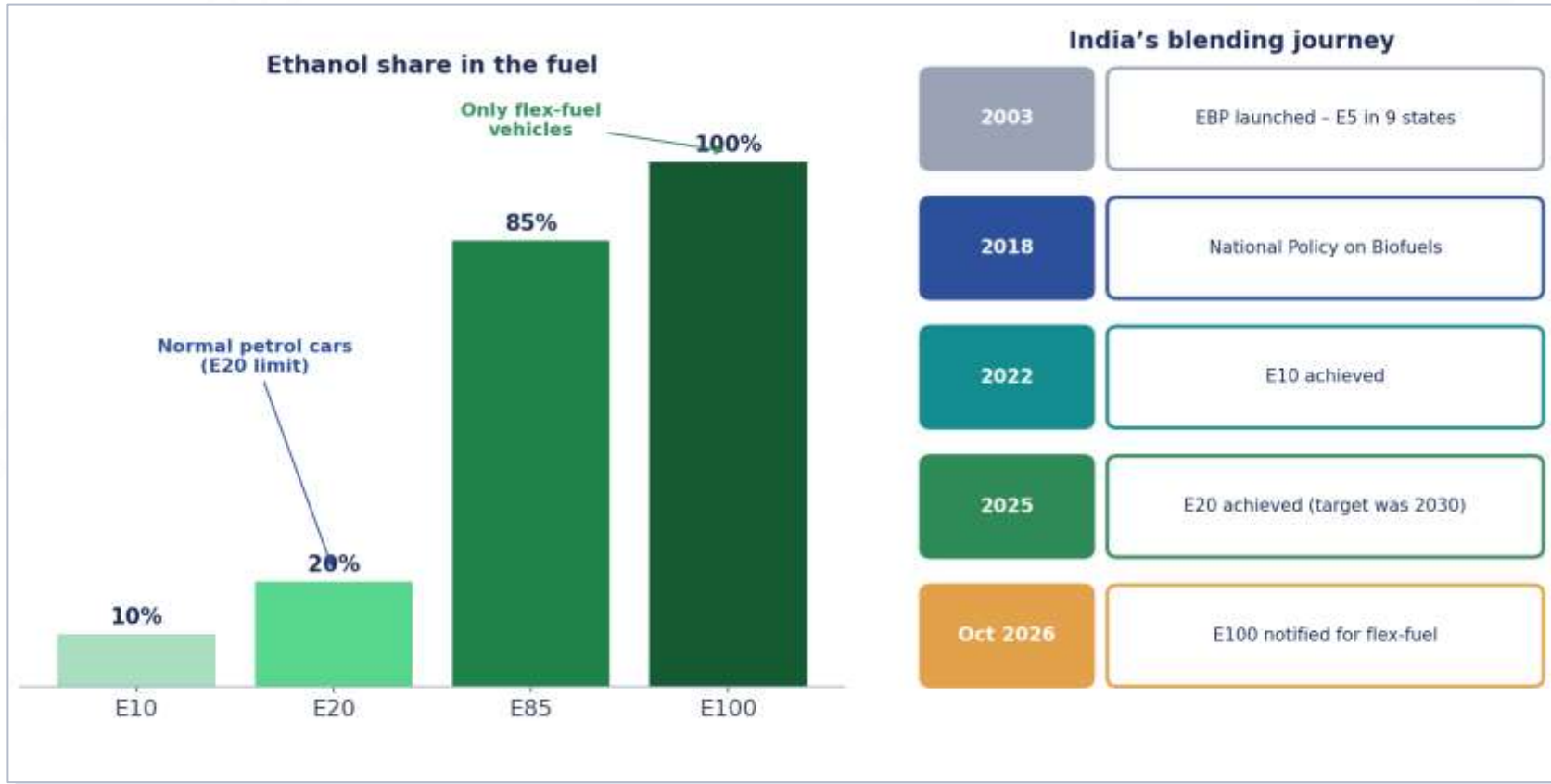
13 Ethanol in numbers | आँकड़े



- ▶ Blending ~**1.5%** in 2014
- ▶ **20%** achieved in 2025
- ▶ Saves **foreign exchange** on crude
विदेशी मुद्रा

E100 notified for flex-fuel vehicles — Map & Diagram

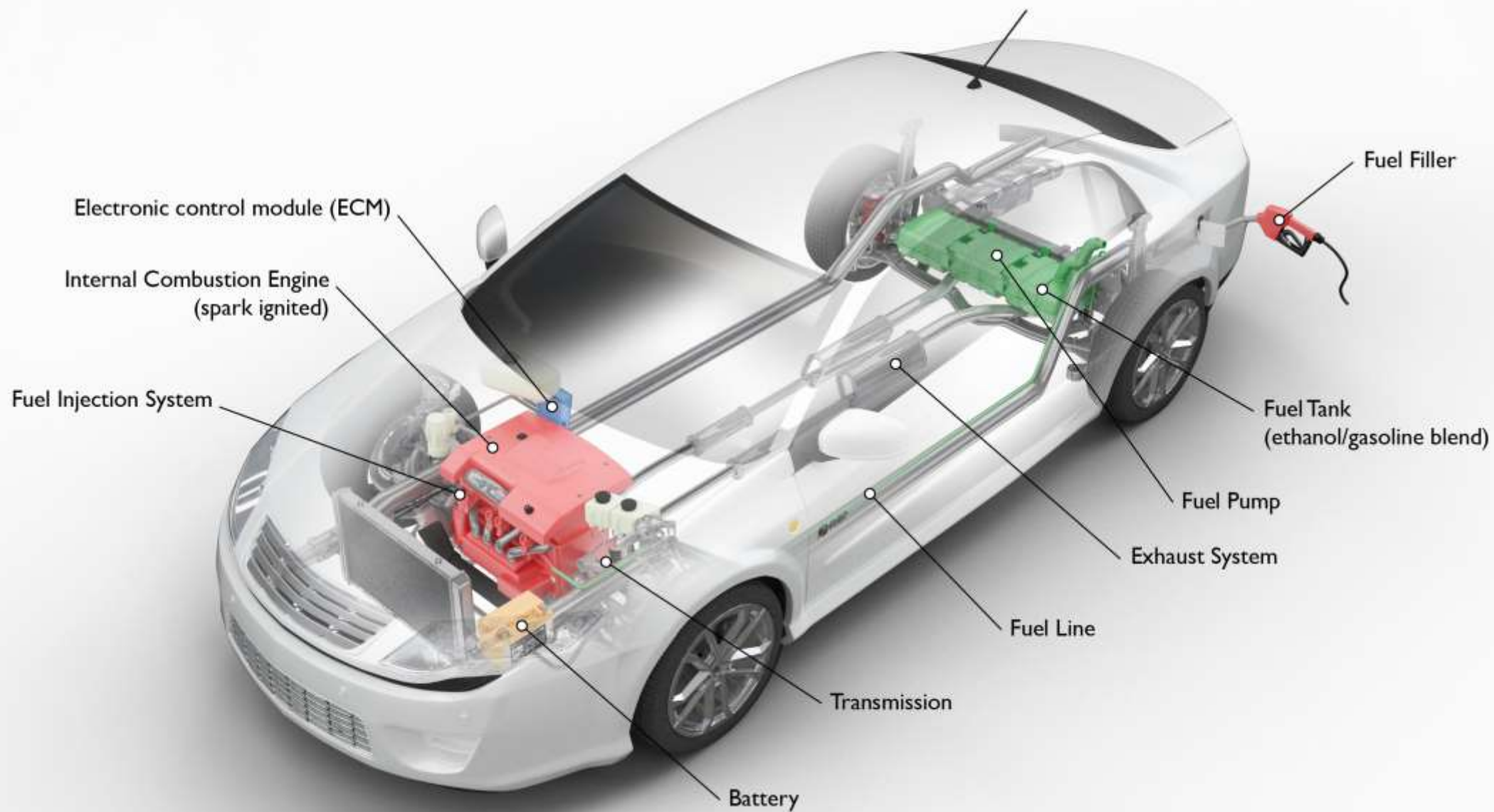
E100 ईंधन — मानचित्र व आरेख



Read the visual चित्र को समझें

- ▶ Normal cars: up to **E20**
सामान्य वाहन
- ▶ **E85/E100** only for **flex-fuel**
फ़्लेक्स-फ़्यूल
- ▶ EBP began in **2003**
2003
- ▶ E20 reached in **2025**
E20

Flexible Fuel Vehicle



Kannadiga hiring row: IT industry for state focusing on skilling, not action

the company's reputation. The firm's reputation for quality and service is one of its competitive advantages. The company's reputation for quality and service is one of its competitive advantages. The company's reputation for quality and service is one of its competitive advantages.

Govt clears ₹2.12 lakh-cr defence procurement

WEEKEND TV GUIDE
New DVD: October 26

and 3000 miles apart in space and time, both of them were able to communicate and coordinate the use of military hardware and software. The researchers used a quantum key distribution system to generate a shared key that could be used to encrypt and decrypt the data. The researchers also used a quantum key distribution system to generate a shared key that could be used to encrypt and decrypt the data. The researchers also used a quantum key distribution system to generate a shared key that could be used to encrypt and decrypt the data.



Eastern Seagull Inc Company Limited
 10000 Highway 101, Suite 100
 Mississauga, Ontario L4V 1P5
 Tel: 905.876.1100 Fax: 905.876.1101
 E-mail: info@e3inc.com
 Website: www.e3inc.com

13360 Highway 101  **physiological health**
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 Tel: 905.876.1100 Fax: 905.876.1101
 E-mail: info@e3inc.com
 Website: www.e3inc.com

e-TENDER NOTICE

With the use of the e-Tendering System, the Government of Ontario is soliciting
 information with the purpose of procuring the following goods and services. For
 more information, please visit the e-Tendering System at www.e3inc.com.
 Item Code: 11101 (01-2017-01101)

Item Description: 11101 (01-2017-01101)
 11101 (01-2017-01101) - 11101 (01-2017-01101)

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Item Description: 11101 (01-2017-01101)
 11101 (01-2017-01101) - 11101 (01-2017-01101)

 **sidi bi**

SMALL INDUSTRIES DEVELOPMENT BANK OF INDIA
(Established under the Small Industries Development Bank of India Act, 1989)
Head Office: SIDBI Tower, 15, Ansari Market, Lucknow-226 001
BRANCHES AT: AMRITSAR • BANGALORE • BIKANER • CALCUTTA • CHANDIGARH • COIMBATUR • DELHI • GUWAHATI • HYDRABAD • JAMSHEDPUR • JAIPUR • KANPUR • LUDHIANA • MUMBAI • RAIPUR • SURAT • THIRUVANANTHAPURAM • VADODRA • VARANASI • VISAKHAPATNAM • YERVADA

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Table 1. The effect of the different types of the intervention on the number of the participants who were in the intervention group and the number of the participants who were in the control group.					
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Published online in Wiley InterScience (www.interscience.wiley.com). DOI: 10.1002/eqe.1035

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Topic IPO filing | ए

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Back Page

दया माण रो लिंग माण लेख

प्रोपिक IPO

Anthropic's IPO filing

एंथ्रोपिक IPO

FIRM SHOWS SOARING REVENUE, STEEP LOSSES AND MOUNTING RISKS

Anthropic showcases IPO filing as AI race intensifies

MANYA SAINI & ECHO WANG
October 26

ANTHROPIC DISCLOSED STEEP losses and explosive revenue growth on Monday as the Claude parent moved closer to a potentially record-breaking IPO, betting on AI's ability to reshape the global economy.

The listing is shaping up to be a major test of appetite for AI from investors who are increasingly scrutinising the returns on billions of dollars of investments and questioning the sustainability of sky-high valuations.

"Anthropic's IPO will certainly establish a benchmark for valuing leading AI labs, influencing both upcoming listings and confidence in the companies funding the AI infrastructure build-out," IPOX research associate Lukas Muehlbauer said. "Its success would not necessarily benefit every AI business equally," he said. Analysts expect valuations of the AI sector to correct as investor unease with the debt-fuelled AI investment boom roils equity and debt markets. Higher borrowing costs and rising bond yields have also added to investor caution.

However, tech companies are still hungry for cash. Meta is aiming to raise up to \$95 billion in its largest-ever equity fundraising, while SpaceX has inked a \$40-billion deal with Apollo to lease AI chips and server hardware. Anthropic's net loss in the first half of 2026 widened sharply to \$80.7 bil-

ROAD TO IPO

From \$124 million in startup funding to a potential record-setting AI listing



lion, largely due to a rise in the fair value of bonds convertible into shares. Revenue in this period stood at about \$16.3 billion. The company's revenue grew a staggering 1,368% in the three months ended June 30 from a year ago, but it warned in the prospectus that its revenue growth rate could decline and fluctuate from time to time.

Some current and prospective investors are valuing Anthropic at about \$1.5 trillion, down from roughly \$2 trillion a week ago, after the startup disclosed some financial details at a recent investor event. The IPO is expected as soon as later this

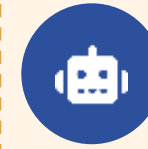
month. "Anthropic is entering an IPO market that is far more challenging than the summer. Investors were not questioning valuations the same way a few months ago," said Matt Kennedy, senior strategist at Renaissance Capital. "While Anthropic is well capitalized, an IPO would give the company some valuable financial flexibility. No company wants to spend too long on the cusp of going public, since that can be a distraction."

Its revenue surged to about \$11.6 billion in the three months ended June 30 from \$4.73 billion in the prior quarter. Net loss widened to \$66.3

billion from \$14.4 billion in the same period. Anthropic had an operating loss of \$69.3 million for the first six months of the year compared with \$2.1 billion a year earlier. The push to list comes despite a once-busy fall listing calendar thinning out. That would give Anthropic access to a deep pool of capital to fund its costly AI ambitions, analysts said. Anthropic said more than half of Fortune 500 companies and over 30% of Global 2000 firms were its customers that generated at least \$100,000 each in revenue for it over the 12 months ended September 30. —REUTERS

Anthropic Showcases IPO Filing as AI Race Intensifies

Claude बनाने वाली कंपनी एंथ्रोपिक ने संभावित रिकॉर्ड IPO के लिए दस्तावेज़ सार्वजनिक किए – राजस्व में विस्फोटक वृद्धि, पर भारी घाटा; AI निवेश पर बाज़ार की बड़ी परीक्षा



AI race
AI होड़

1 Key numbers | आँकड़े



\$16.3 bn

H1 2026
revenue
राजस्व

1,368%

Q2 revenue
growth (y-o-y)
वृद्धि

\$80.7 bn

H1 net loss*
घाटा

~\$1.5 tn

Some investors'
valuation
मूल्यांकन

2 Why the big loss घाटा क्यों



► Mostly fair-value rise of
convertible bonds
परिवर्तनीय बॉन्ड

► Operating loss only \$693
mn in H1

परिचालन घाटा

► Down from \$2.1 bn a
year earlier

कम हुआ

3 Customers | ग्राहक



► Half of Fortune 500
firms

फ़ॉर्च्यून 500

► 30%+ of Global 2000
ग्लोबल 2000

► Each paid \$100,000+ in
a year

\$1 लाख+

Anthropic's IPO filing — in depth (1/2)

एंथ्रोपिक IPO — विस्तार से (1/2)

4

Market mood
बाज़ार का रुख



- ▶ Investors **questioning AI valuations**

मूल्यांकन पर सवाल

- ▶ Higher **borrowing costs & bond yields**

ऊँची ब्याज दर

- ▶ Valuation talk fell from ~\$2 tn to \$1.5 tn in a week

गिरावट

5

Rivals raising cash
प्रतिद्वंद्वी



- ▶ **Meta** – up to \$95 bn equity

मेटा

- ▶ **SpaceX** – \$40-bn chip lease deal with Apollo

स्पेसएक्स

- ▶ Race for **compute & data centres**

कंप्यूटिंग

6

A benchmark IPO |
मानक IPO



- ▶ Will set **value of AI labs**

AI मूल्य निर्धारण

- ▶ Affects **upcoming AI listings**

आगे के IPO

- ▶ Listed as a **public benefit corporation**

सार्वजनिक हित निगम

Anthropic's IPO filing — in depth (2/2)

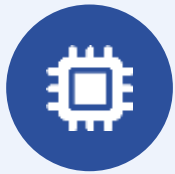
एंथ्रोपिक IPO — विस्तार से (2/2)

7 How generative AI works | जनरेटिव AI



Data
डेटा

Text, code
पाठ



Training
प्रशिक्षण

GPUs
GPU



Model (LLM)
मॉडल

Predicts words
पूर्वानुमान



Chatbot
चैटबॉट

Claude, ChatGPT
उपयोग

8

Did you know?
क्या आप जानते हैं?



► “**Mythos**” – Anthropic model for **cyber-defence** tasks (2026)

मिथोस

► *The loss is mostly an accounting entry, not cash burnt

लेखा प्रविष्टि

Anthropic's IPO filing — background (1/2)

एंथ्रोपिक IPO — पृष्ठभूमि (1/2)

9 Key AI terms | AI शब्दावली

Term शब्द	Meaning अर्थ
LLM LLM	Large language model
GPU GPU	Chip for AI training
Agentic AI एजेंटिक	AI that acts on tasks
AGI AGI	Human-level general AI

10 India's AI push भारत में AI

- ▶ **IndiaAI Mission (2024)**
– ₹10,372 cr
इंडिया AI मिशन
- ▶ **38,000+ GPUs** shared compute
GPU
- ▶ Hosted **AI Impact Summit** (Feb 2026)
AI शिखर सम्मेलन

11 AI rules worldwide वैश्विक नियम

- ▶ **EU AI Act** – risk-based (2024)
EU AI अधिनियम
- ▶ India: **AI Governance Guidelines** (2025)
दिशानिर्देश
- ▶ **Bletchley Declaration** on AI safety (2023)
ब्लेचली

Anthropic's IPO filing — background (2/2)

एंथ्रोपिक IPO — पृष्ठभूमि (2/2)

12 Who funds frontier AI | वित्तपोषण



Big Tech
बड़ी कंपनियाँ

Amazon, Google
अमेज़न



VC / PE
निवेशक

Private rounds
निजी



Bonds
बॉन्ड

Debt for data
centres
कर्ज़



IPO
IPO

Public money
जनता

13 Risks flagged | जोखिम



- ▶ Revenue growth **may slow**
वृद्धि धीमी
- ▶ Huge **compute costs**
कंप्यूटिंग लागत
- ▶ **Misuse & safety concerns**
दुरुपयोग

Anthropic's IPO filing — Map & Diagram

एंथ्रोपिक IPO — मानचित्र व आरेख



Read the visual चित्र को समझें

- ▶ Quarterly revenue \$4.73 bn → \$11.6 bn
राजस्व
- ▶ Founded 2021 by Amodei siblings
स्थापना
- ▶ \$380 bn valuation in Feb 2026
मूल्यांकन
- ▶ Filing made public Oct 2026
सार्वजनिक

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

NDA & NA (II) 2026 – GAT

Exam date: 13 Sep 2026 • Topic: ECI affidavit

As per Article 324 of the Constitution of India, the Chief Election Commissioner shall not be removed from his office except in like manner and on the like grounds as:

- (a) a Judge of the Supreme Court
- (b) a Judge of a High Court
- (c) the Speaker of the Lok Sabha
- (d) the Governor of a State

RRB Group D (CEN 2024)

Exam date: 27 Dec 2025 (Shift 2) • Topic: Lula & Brazil

Which of the following Brazilian cities hosted the 17th BRICS Summit on 6–7 July 2025?

- (a) Brasília
- (b) São Paulo
- (c) Rio de Janeiro
- (d) Manaus

Answers & Explanation | उत्तर व व्याख्या

NDA & NA (II) 2026 – GAT

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(a) a Judge of the Supreme Court

(b) a Judge of a High Court

(c) the Speaker of the Lok Sabha

(d) the Governor of a State

Answer: (a) Art 324(5): like an SC judge (Art 124(4)).
सुप्रीम कोर्ट न्यायाधीश की तरह।

RRB Group D (CEN 2024)

Exam date: 27 Dec 2025 (Shift 2) • Topic: Lula & Brazil

Which of the following Brazilian cities hosted the 17th BRICS Summit on 6–7 July 2025?

(a) Brasília

(b) São Paulo

(c) Rio de Janeiro

(d) Manaus

Answer: (c) Brazil chaired BRICS in 2025.
रियो डी जनेरियो।

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

RRB NTPC 2025 (UG) CBT-2

Exam date: 17 Sep 2026 (Shift 1) • Topic: Plant-based meat

In human beings, the complete digestion of proteins results in the formation of which substances?

- (a) Glucose
- (b) Fatty acids
- (c) Amino acids
- (d) Glycerol

Answers & Explanation | उत्तर व व्याख्या

RRB NTPC 2025 (UG) CBT-2

Exam date: 17 Sep 2026 (Shift 1) • Topic: Plant-based meat

In human beings, the complete digestion of proteins results in the formation of which substances?

- (a) Glucose
- (b) Fatty acids
- (c) Amino acids**
- (d) Glycerol

Answer: (c) Pepsin, trypsin, peptidases → amino acids.
अमीनो अम्ल।

Test Yourself — Q1–4 | स्वयं को परखें

Q1 Luiz Inácio Lula da Silva has won a fourth term as President of:
लूला दा सिल्वा किस देश के राष्ट्रपति हैं?

- (a) Argentina
- (b) Brazil
- (c) Chile
- (d) Mexico

Q2 Under Article 324(5), an Election Commissioner can be removed from office:
अनुच्छेद 324(5) के तहत चुनाव आयुक्त को हटाया जा सकता है:

- (a) By the PM
- (b) Only on the recommendation of the CEC
- (c) By the Chief Justice
- (d) By the Lok Sabha Speaker

Q3 Anticipatory bail is now provided under which section of the BNSS, 2023?
अग्रिम जमानत BNSS की किस धारा में?

- (a) Section 438
- (b) Section 482
- (c) Section 437
- (d) Section 167

Q4 The Defence Acquisition Council (DAC) is chaired by:
रक्षा अधिग्रहण परिषद की अध्यक्षता:

- (a) Prime Minister
- (b) Defence Minister
- (c) Chief of Defence Staff
- (d) National Security Adviser

Test Yourself — Q5–8 | स्वयं को परखें

Q5 CSIR-Institute of Himalayan Bioresource Technology is located at:
CSIR-IHBT कहाँ स्थित है?

- (a) Dehradun
- (b) Palampur
- (c) Shimla
- (d) Srinagar

Q6 Belgrade, where the Sava meets the Danube, is the capital of:
बेलग्रेड किसकी राजधानी है?

- (a) Croatia
- (b) Hungary
- (c) Serbia
- (d) Bosnia

Q7 Which of these is NOT among India's "Big Four" venomous snakes?
भारत के "बिग फ़ोर" में कौन नहीं?

- (a) Common krait
- (b) Russell's viper
- (c) King cobra
- (d) Saw-scaled viper

Q8 E100 fuel can be used only in:
E100 ईंधन किसमें उपयोग हो सकता है?

- (a) All petrol cars
- (b) Diesel vehicles
- (c) Flex-fuel vehicles
- (d) CNG vehicles

Test Yourself — Q9–10 | स्वयं को परखें

Q9

The National Policy on Biofuels was first notified in:

राष्ट्रीय जैव ईंधन नीति पहली बार कब अधिसूचित हुई?

(a) 2009

(b) 2014

(c) 2018

(d) 2022

Q10

Claude, the AI assistant, is developed by:

AI सहायक Claude किसने विकसित किया?

(a) OpenAI

(b) Google DeepMind

(c) Anthropic

(d) Meta

Answer Key — Q1–5 | उत्तर व व्याख्या

1-b **Brazil** — Capital Brasília.
ब्राज़ील।

2-b **Only on the recommendation of the CEC** — CEC is removed like an SC judge.
CEC की सिफ़ारिश पर।

3-b **Section 482** — Earlier Sec 438 CrPC.
धारा 482।

4-b **Defence Minister** — Set up in 2001.
रक्षा मंत्री।

5-b **Palampur** — Himachal Pradesh.
पालमपुर।

Answer Key — Q6–10 | उत्तर व व्याख्या

6-c **Serbia** — Balkan nation.
सर्बिया।

7-c **King cobra** — Fourth is the spectacled cobra.
किंग कोबरा।

8-c **Flex-fuel vehicles** — Notified via CMV Rules amendment.
फ्लेक्स-फ्यूल वाहन।

9-c **2018** — Amended in 2022.
2018।

10-c **Anthropic** — Founded 2021 by Dario & Daniela Amodei.
एंथ्रोपिक।

Myth Buster of the Day — Health | आज का मिथक



MYTH | मिथक

“Sucking out the venom or tying a tight tourniquet saves a snakebite victim.”

ज़हर चूसना या कसकर पट्टी बाँधना साँप के काट के बचाता है।



FACT | तथ्य

No. Cutting or sucking the wound doesn't remove venom and adds infection; a tight tourniquet can cut blood supply and damage the limb. Venom moves through the lymph system, so the right steps are: keep the person calm and still, immobilise the limb loosely, remove rings or tight items, and rush to a hospital for antivenom. Most deaths happen because victims reach care too late – often after visiting faith healers.

नहीं। घाव काटने या चूसने से ज़हर नहीं निकलता, बल्कि संक्रमण बढ़ता है; कसकर पट्टी बाँधने से रक्त प्रवाह रुककर अंग को नुकसान हो सकता है। ज़हर लसीका तंत्र से फैलता है, इसलिए सही उपाय है: व्यक्ति को शांत और स्थिर रखें, अंग को ढीला स्थिर करें, अंगूठी या तंग चीज़ें हटाएँ और तुरंत अस्पताल ले जाकर एंटीवेनम दिलाएँ। अधिकतर मौतें देर से इलाज के कारण होती हैं – अक्सर झाड़-पूँक में समय गँवाने से।



Hospital and antivenom – not home remedies. अस्पताल और एंटीवेनम – घरेलू नुस्खे नहीं।



— DIWALI SPECIAL —

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FOUNDATION BATCH 2026

GROUP-D | NTPC | ALP

NEW BATCH STARTS



28 OCTOBER 2026



8:00 AM



SCAN TO REGISTER



Location: Tanishka Tower, Sheopur Road, Gaushala, Sanganer, Jaipur



Contact Us: 9057143416 / 9057143417

Thank you ?

