# Daily Current Affairs



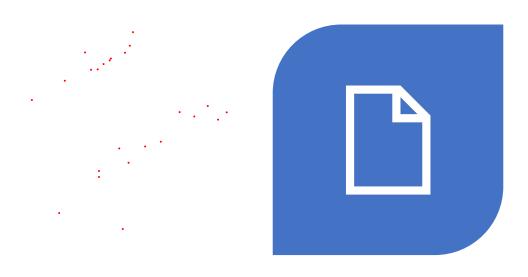








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**PDF** 

10 MCQ QUIZ

"In a time of deceit telling the truth is a revolutionary act."

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MEDATED ADMINISTRATION New Kartayya Bhayan inaugurated in capital NEWS IS PAGE D





DUBLISHERS IN PAGE 43

Singling out India

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Intilization position threat, the MEA on Mon-day pointed out that, not only did the U.S. encour-sing and trade previously.

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China's stand has lessons for a vulnerable India Determined moves to safeguard economy OTTORIAL > PAGE E



Pakistan pulls out of Asia Cup hockey SPORT N PAGE 10

#### INSIDE

Trump hints at

Vance for 2028

presidential run

said on Tuesday Visa Presiden

J.D. Vance is "most likely" to secure the Republican party

Karol Nawrocki

inaugurated as Polish President

2028 o PAGE 14

### U.S. President signs order for additional 25% tariff on Indian goods, doubling July 31 rate

#### T.C.A. Sharad Baghayan

3. President Do-nald Trump on Wednesday signed an executive order impos-ing an additional 27% satiff on imports from India, in response to India "directly response to India "directly or Indirectly" importing oil from Russia. This is over and above the 25% uniff on Indian imports that Mr. Trump approved on July

While the initial 22% up-tiff will come into effect from Thuraday, the addi-tional 22% suriff will come into effect after 21 days. The Ministry of External said it has made its stand-clear - through an earlier statement following. Mr. Trimp's threat of addition-al turiffs — that these ac-thon were 'unfait, minute.' While the initial 29% ta-

was "extremely unfortu-nate" that the U.S. has cho-

nate that the U.S. has cho-sen this course of action, the MRA said.

"To deal with the na-tional emergency de-scribed in Essentive Order 1406s [relating to Russia's actions in Ukraine], i deteraccounts in Columbia, I defer-imine that I is a necessary mine that I is a necessary an additional ad valorem duty on imports of articles of india, which is directly Russian Federation oil, Mr. Trump's executive or-der and. Consistent with applicable lew, articles of India im-ported into the automa-tic properties of the columbia transport of the columbia of the Xtates shall be automa-ted the columbia of the columbia of duty of 25%, it added. Over the last few days, Mr. Trough Son representations mine that it is nec

# Trump hikes levy on Indian imports to 50% One part takes effect today and the rest after 21 This is a 'severe setback', says FIEO chief, noting that days; decision 'extremely unfortunate', says MEA 55% of Indian exports to U.S. market will be affected

#### Tariff imposition is an economic Frump's rationals for tariffs on India for its oil trade with Missing overflusts a key fast: all greats combined. Clima and EU have imported more from fruits unreason of Ukraine. blackmath Rabul

NEW DELEI The Leader of the Opposition in the Lok Saths, Ridnel darethi, and the second round of turiff imposed on India was "sconomic biscimsal" airself at sessering an unfair trade deat. PM Nazenska Modi should not let his "weakness" override the interests of the indian people, he said, w MADE 4

jective of ensuring the energy security of 1.4 bill. Born people of India, the MEA statement sold on Wedanaday. "It is therefore extentely unfortunate that the U.S. should thoose to impose additional tariffs on India for actions that several other countries are also taking in their own naactions are unfair, unjustified and unreasonable," the MEA added, "India will take all actions necessar

to protect its national This latest escalation by Mr. Trump is a "severe set-back" for Indian exports, said S.C. Ralhan, president of the Federation of Indian

of the Federation of Indian Export Organisations with the U.S. cannel proceed under the U.S. cannel proceed under the U.S. cannel proceed under the U.S. cannel to th

Negotiators from the HELATER REPORTS. U.S. and Italia are current: PAGES 4, 12, 8, 13

Trade Agreement (PTA) by fall of this year. The new start on August 25 in New

calm, avoid retaliation for caim, avoid retailation for at least six months, and re-cognize that meaningful rade negotiations with the U.S. cannot proceed under threats or mistrust," said Ajay Srivastava, founder of the Global Tyade Besearch

## 190 rescued in Uttarkashi after flash floods

#### The Hindu Bureau

Around 190 people were reserved from Dhardi town in Uttarkashi district of Ut-tarakhand on Wednesday, a day after devastating flash floods wreaked ha-vos, leaving accres missing and the town covered in mud and slash. Reacus teams also recovered two bodies from the site.

Had weather continued to hamper rescue efforts, with roads to the area blocked by mud and boulders inflowing landshides triggered by heavy ratifall. Rives acriss the Xaae remained above danger levels after continuous downpour over the past 80 hours.

hours.

Utteraldiand's Disaster
Management and Rehabili-tation Recretary Vinod Ka-mar Suman said "priva fa-mar Suman said "priva facle, around 18 people were missing from the disaster spot". Efforts were under

way to ensure that the rescue teams were able to work continuously, he added.

### Tireless efforts

Tireless efforts
Mr. Sumun said, "As manyas DSO Army personnel
from Rajputana Rifles and
12 jawans from Charak bartalion are working trelessby in the rescue operations by in the rescue operations in Dharall while 100 per-sonnel of the Inda/Tibetan florder Police (ITBP) are al-so assisting... Acoust 40 Army personnel are walk-ing to the disaster site from Nelong valley while a 50 member, tours of the Armember (sum of the Ar-my's medical wing has reached till Tekla." Around 80 jawans of the State Dis-



#### SC sets aside order limiting the names for State schemes

The Supreme Court or Wednesday diaminsed as "misconceived" and as "abuse of law" a challenge "abuse of law" a civillenge raised by All India Arma Dravida Murmetre Kashu-gam MP C. We shamingam to naming a Tamil Na-dat government autreach programme, "Ungadudan Nadio", after the CM.

A Bench Beaded by CBI LBI, Gavid set anise a Ma-pained. In Mr. Shammugh-pained. In Mr. Shammugh-pained. In Mr. Shammugh-nan's neutrino. Imposition

## SC asks EC for a detailed response on voter deletion

## Roll revisions

The table shows the districts in Bitur with the highest are BEGINNING THE

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	Plantin.	-40,00
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	внармиче	-9.59
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"Vajpayee ji started etha-not blending in 2001. Did

he do it at my behest?" he

CAR		The second second second second	_
lotes	inns the Sci.	Laurest deletions (in	543
	-14.36	Shebbanes	-4.34
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4	-10,78	Politica codid	(0.11
	-9.59	Baimor (Whatshing)	-5.39
iii.	-0.37	- Paultin Champaran	-1.69

The Supreme Court on Wednesday asked the three tion Commission (RC) to give a detailed response to an application seeking the particulars and reason for each of the 68 lakly voters deleted from the Bihar draft electoral roll. The draft roll was pu-blished on August I as part

of the special intensive re-vision (SIR) in the poll-bound State.

A Bench headed by Jus-tice Surya Kant told the poil body to file the partic-ulars by Saturday. A heartigs by Siturialy, A hear-ing has already been sche-duled for August 12. The application, orally men-tioned by advocates Prash-art Bhudian and Noha Rathi for urgent hearing, said the reasons for deledespite advice to shut them down, he continues to remain invested because of his own pusion. These firms only generate a nurre 1.3 light firres of othanol, which is too small a quanti-ty, he said. to reliable invested because the property of t

with reasons for non-sub-mission against east name," the application

umeration forms have been marked 'not recom-mended by the BLOs (Booth Level Officers)'.

"Information obtained show the marking 'not re commended by BLO against a large percentage of electors whose enumer ation forms have been uploaded," Mr. Bhushan submitted. He said the EC

had the required information, as was evident from a lease had cited bead BLO and boottleved agents (BLAG) reports maning 22 lash deceased electors, as-doption of the second control and 35 lash overs who had silver permanently origina-ed or could only be reased, ed or could only be reased, the lash had reported that L2 lash electors had not yet submitted their enumera-tion forms.

# Petrol lobbies behind E20 fuel fear campaign: Gadkari

#### The Hinds Sureau NEW DELIS

Tests show that older vehicles are not damaged in any year by using a new pe-20% of eshanol, Union Mi-nister for Road Transport mater for Road Transport and Highways Nitin Gadka-ri said on Wednesday, blaming the social media nutrage against the new E26 blend on a "political conspiracy", possibly fuelled by petrol lobbies.

contrape against the new 1250 blend on a "political consistinacy", passibly holled by perrol labbias.

Mind overt, a conversation series in the national capital, Mr. Gashari emphasised that making the put the country on the put the country of t

vehicles have started rolling out from April 2025, excerned about the impact on their older vehicles and a surge in maintenance

crops.
While new KR0-tuned "Pune-based Automo-

tive Research Association of India has tested old velo-



he enumerated several be-nefits that accused to the them to EGO, a firel blend that comprises 20% either not produced from plant care, i.tex, and mailes, and 60% gasoline. He said the transition to blended had started in

er rising levels of pollution. Thirdly, our push for alter-native fuels and bio fuels places the country on the he do it at my behies?" he asked.

He said that his family-owned companies are run-ning at an annual loss of 130 crore, plaining that despite advice to shul path to Armanirbharia [self-reliance]." 'No vested interest'

wing and imports are too. There are also concerns ov-

Allegations have also been made on social media about the Minister's "vest-

about the Minister's "vest-de Interest" in promoting ethanis blending bessauer of his family's conventing of his family's conventing such as the Purti Group. "This is a clother stem in-terior to the purtification of the have identified on organi-have identified on organi-phones and taking to peo-ple to write poste on X.1 is a possible that this is a pol-tical conspiracy. Is in com-mon in politics," Mr. Gan-hart said surphalically

# Trump hikes levy on Indian imports to 50%

U.S. President signs order for additional 25% tariff on Indian goods, doubling July 31 rate

One part takes effect today and the rest after 21 days; decision 'extremely unfortunate', says MEA

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15,867

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(data as of August 2, 2025)

2,80,000

This is a 'severe setback', says FIEO chief, noting that 55% of Indian exports to U.S. market will be affected

## T.C.A. Sharad Raghavan NEW DELHI

President Donald Trump on Wednesday signed an executive order imposing an additional 25% tariff on imports from India, in response to India "directly or indirectly" importing oil from Russia. This is over and above the 25% tariff on Indian imports that Mr. Trump approved on July

While the initial 25% tariff will come into effect from Thursday, the additional 25% tariff will come into effect after 21 days.

The Ministry of External Affairs (MEA), in response, said it has made its stand clear - through an earlier statement following Mr. Trump's threat of additional tariffs - that these actions were "unfair, unjusti-

fied and unreasonable". It was "extremely unfortunate" that the U.S. has chosen this course of action. the MEA said.

tional emergency described in Executive Order 14066 [relating to Russia's actions in Ukrainel, I determine that it is necessary and appropriate to impose an additional ad valorem duty on imports of articles of India, which is directly or indirectly importing Russian Federation oil." Mr. Trump's executive order said.

"Accordingly, and as consistent with applicable law, articles of India imported into the customs territory of the United States shall be subject to an additional ad valorem rate of duty of 25%," it added. Over the last few days, Mr. Trump has repeatedly

have imported more from Russia since its invasion of Ukraine "To deal with the na-Oil imports Coal imports Gas imports China EU 1,04,726 India 1,30,046 40,000 1,20,000 MILLION EURO SOURCE: CENTRE FOR RESEARCH ON ENERGY AND CLEAN AIR (CREA)

threatened additional tariffs on India as a "penalty" for its oil imports from Russia.

Singling out India

Trump's rationale for tariffs on India for its oil trade with

Moscow overlooks a key fact: all goods combined, China and EU

## India's clear position

In response to one such threat, the MEA on Monday pointed out that, not only did the U.S. encourage such trade previously,

both the European Union and the U.S. actively trade other items with Russia in excess of the amount that India pays for Russian oil.

"We have already made clear our position on these issues, including the fact that our imports are based on market factors and done with the overall ob-

# Tariff imposition is an economic blackmail: Rahul

### NEW DELHI

The Leader of the Opposition in the Lok Sabha, Rahul Gandhi, said the second round of tariff imposed on India was "economic blackmail" aimed at securing an unfair trade deal, PM Narendra Modi should not let his "weakness" override the interests of the Indian people, he said. » PAGE 4

jective of ensuring the energy security of 1.4 billion people of India," the MEA statement said on Wednesday. "It is therefore extremely unfortunate that the U.S. should choose to impose additional tariffs on India for actions that several other countries are also taking in their own national interest."

"We reiterate that these actions are unfair, unjustified and unreasonable," the MEA added, "India will take all actions necessary to protect its national interests."

This latest escalation by Mr. Trump is a "severe setback" for Indian exports, said S.C. Ralhan, president of the Federation of Indian Export Organisations (FIEO), noting that nearly 55% of Indian exports to the U.S. market will be directly affected.

"The 50% reciprocal tariff effectively imposes a cost burden, placing our exporters at a 30% to 35% competitive disadvantage compared to peers from countries with a lower reciprocal tariff," Mr. Ralhan added.

Negotiators from the U.S. and India are current-

ly engaged in finalising the first tranche of a Bilateral Trade Agreement (BTA) by fall of this year. The next physical meeting between the two sides is expected to start on August 25 in New Delhi.

"India should remain calm, avoid retaliation for at least six months, and recognise that meaningful trade negotiations with the U.S. cannot proceed under threats or mistrust," said Ajay Srivastava, founder of the Global Trade Research Initiative and a former Director General of Foreign Trade.

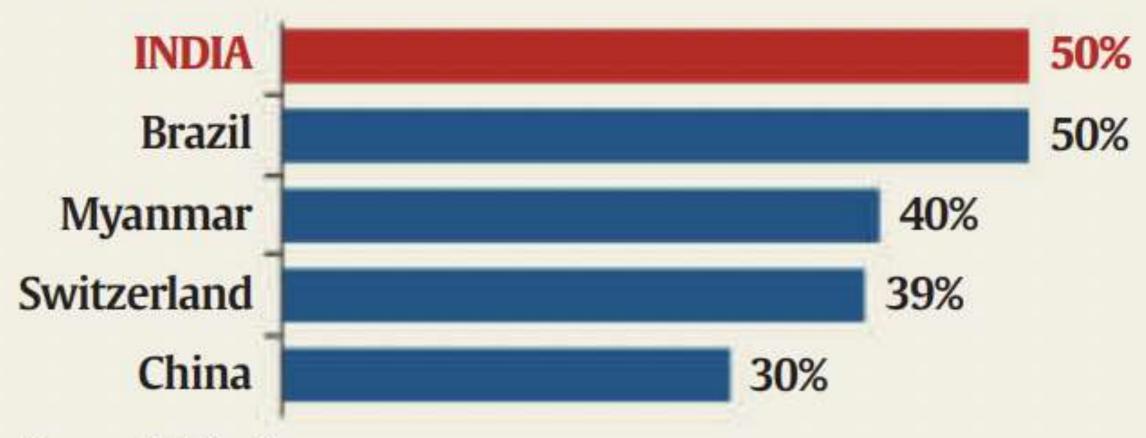
He added that India could consider stopping its purchases of Russian oil only if it was economically viable, and not under duress from Washington.

### RELATED REPORTS

» PAGES 4, 12, & 13

# INDIA, BRAZIL HEAD U.S. TARIFF LIST

**COUNTRIES RATES** 



Source: White House

Topic	Details
Action Taken	U.S. President Donald Trump signed an executive order to impose an additional 25% tariff on Indian imports, making the total tariff 50%
Reason Cited	India's direct or indirect purchase of Russian oil after Russia's invasion of Ukraine
Effective Dates	First 25% from July 31; second 25% will take effect after 21 days
India's Response (MEA)	Called the move <b>"unjustified and unreasonable"</b> ; vowed to protect national interests
India's Trade Facts	55% of Indian exports to the U.S. likely to be affected

Comparison with Others	China and EU import <b>more Russian oil</b> than India but weren't penalized similarly
Tariff Impact	Severe blow to Indian exporters; raises cost burden by 30–35% compared to countries with lower reciprocal tariffs
Rahul Gandhi's Statement	Called it "economic blackmail" to gain unfair trade advantage
India's Trade Strategy	Advised to <b>avoid retaliation for 6 months</b> , and aim to finalize <b>Bilateral Trade Agreement (BTA)</b> by end of 2025

India-Russia Oil Trade	India is the second-largest buyer of Russian crude after China since 2022
Agenda	Includes S-400 missile delivery, supply of Russian oil, and broader strategic cooperation
India's Stand	India has refused to <b>submit to U.S. or EU trade sanctions</b> over oil trade with Russia
Russia's Stand	Asserts "sovereign right" to trade with any nation, including India
Other Attendees	Doval to meet Russia's Deputy Security Council Secretary Aleksandr Venediktov
Geopolitical Implications	Meeting expected to discuss Ukraine crisis, U.S. actions, and Taliban regime recognition

# INDIA AGRICULTURE EXPORTS TO U.S.

	2022	2023	2024	Jan-Jun 2024	Jan-Jun 2025	% Growth
Seafood	3016.5	2545.1	2483.8	1062.5	1407.9	32.5
Spices	333.9	359.3	410.2	194.7	206.9	6.3
Rice	301	347.4	391.2	176.8	199.6	12.9
Processed F&V	206.5	202.5	227.6	102.8	134.6	30.9
Baked Goods*	190.3	219.4	247.5	115.4	123.5	7.1
Essential Oils	228.9	180	212.1	109	114.2	4.8
Sugars**	218.5	174.6	171	84.6	119	40.8
Vegetable Oils	208.2	151.3	174.8	76.4	77.9	2
Food Preparations	81.1	105.2	137.9	62.5	58.7	-6
TOTAL	6,658.8	5,811.5	6,211.9	2,798.9	3,472.7	24.1

Exports in millions of dollars \*Includes Cereals & Pasta; \*\*Includes Sweeteners & Beverage Bases.

Source: US Department of Agriculture

# **U.S. AGRICULTURE EXPORTS TO INDIA**

	2022	2023	2024	Jan-Jun 2024	Jan-Jun 2025	Growth in %
Tree Nuts	1,001.4	1,095.5	1,116.1	532	759.6	42.8
Ethanol	182.7	245.9	420.9	213.7	246	15.1
Soyabean Oil	207.6	0.2	37.5	0.1	212.4	1,42,997.6
Cotton	491.2	223.7	209	86.9	181.5	108.8
TOTAL	2,348.5	2,040.7	2,378.8	1,135.8	1,693.2	49.1

Exports in millions of dollars Source: US Department of Agriculture

# Petrol lobbies behind E20 fuel fear campaign: Gadkari

The Hindu Bureau

NEW DELHI

Tests show that older vehicles are not damaged in any way by using a new petrol blend with a higher 20% of ethanol, Union Minister for Road Transport and Highways Nitin Gadkari said on Wednesday, blaming the social media outrage against the new E20 blend on a "political conspiracy", possibly fuelled by petrol lobbies.

Speaking at *The Hindu* Mind event, a conversation series in the national capital, Mr. Gadkari emphasised that making the switch to biofuels helped put the country on the path to self-reliance by cutting oil imports, and also reduces pollution and saves farmers' lives by ensuring they received a

higher value for their crops.

While new E20-tuned vehicles have started rolling out from April 2025, existing owners are concerned about the impact on their older vehicles and a surge in maintenance costs.

"Pune-based Automotive Research Association of India has tested old vehicles on a total distance of one lakh kilometres and not found any problems," the Minister said.

Asked whether the cheaper ethanol variant would result in lower petrol costs for the end user, given that there is also a 5% to 6% drop in mileage, Mr. Gadkari said that determining petrol prices was not under his domain. While he acknowledged an impact on vehicle mileage,



Nistula Hebbar, political editor at *The Hindu*, presents a book to Union Minister Nitin Gadkari on Wednesday. SHIV KUMAR PUSHPAKAR

he enumerated several benefits that accrued to the country due to the transition to E20, a fuel blend that comprises 20% ethanol produced from plant products such as sugarcane, rice, and maize, and 80% gasoline.

He said the transition to blended fuel started in 2001, when Atal Behari Vajpayee was the Prime Minister. The then Petroleum Minister sent a delegation to Brazil, of which Mr. Gadkari was a part.

"From an economic point of view, the country spends ₹22 lakh crore on fossil fuel imports and the automotive industry is growing and imports are too. There are also concerns over rising levels of pollution. Thirdly, our push for alternative fuels and bio fuels places the country on the path to *Atmanirbharta* [self-reliance]."

## 'No vested interest'

Allegations have also been made on social media about the Minister's "vested interest" in promoting ethanol blending because of his family's ownership of sugarcane companies such as the Purti Group.

"This is a deliberate misinformation campaign. We have identified an organisation that is dialing phones and talking to people [to write posts on X]. It is possible that this is a political conspiracy. It is common in politics," Mr. Gadkari said emphatically. "Vajpayee ji started ethanol blending in 2001. Did he do it at my behest?" he asked.

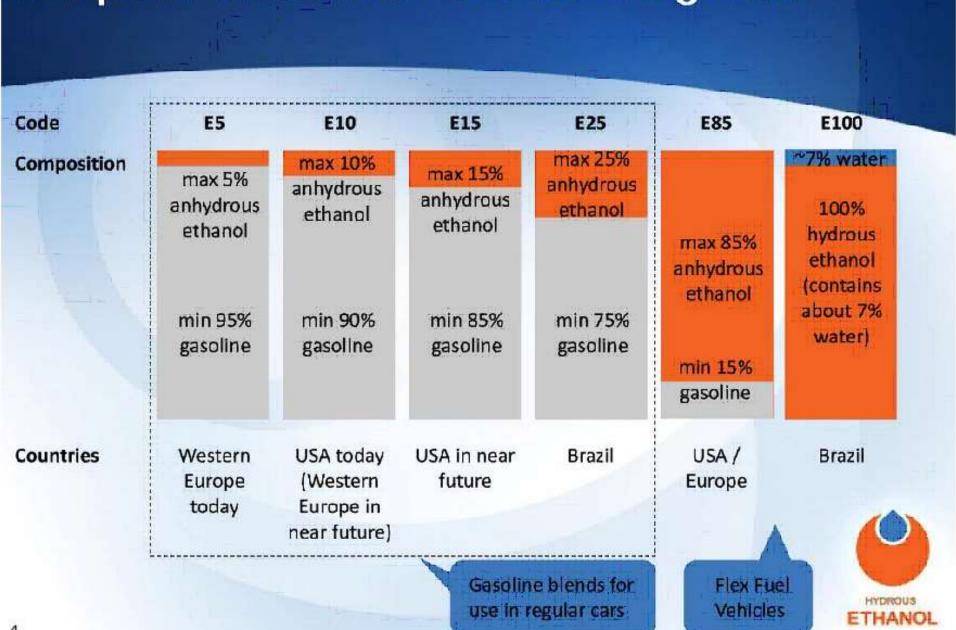
He said that his familyowned companies are running at an annual loss of ₹30 crore, claiming that despite advice to shut them down, he continues to remain invested because of his own passion. These firms only generate a mere 1.3 lakh litres of ethanol, which is too small a quantity, he said.

"If I promote electric or hydrogen or flex engine car, does it mean I manufacture those? I promote various alternative and bio fuels so that import and pollution goes down, farmers don't commit suicide, and we fulfil the dream of the Prime Minister of atmanirbharta [self reliance]," Mr. Gadkari said.

Торіс	Details
What is E20?	E20 is a fuel blend containing 20% ethanol and 80% gasoline
Implementation	E20-tuned vehicles started rolling out from April 2025
Purpose	Reduce oil imports, cut pollution, increase farmer income, promote  Atmanirbhar Bharat
Accusation	Nitin Gadkari alleged a "political conspiracy" behind social media criticism, allegedly fueled by petrol lobbies
Testing	Pune-based ARAI tested older vehicles over <b>1 lakh km</b> with E20 and found <b>no</b> damage

Concern Raised	Users fear higher maintenance and 5-6% mileage drop in older vehicles
Gadkari's Response	Acknowledged mileage drop, but said pricing not in his control
No Vested Interest Claim	Refuted allegations of promoting E20 due to family-owned sugar firms, which generate only 1.3 lakh litres/year
History	Ethanol blending began under PM <b>Atal Bihari Vajpayee in 2001</b> ; Gadkari was part of a delegation to Brazil
Economic Impact	India saved ₹22 lakh crore on oil imports due to ethanol blending

# Composition of ethanol containing fuels





# **Biofuels**



- Biofuels are the fuel derived from the biomass of plants or animal wastes. It is commonly produced from corn, sugarcane and animal waste like cow dung.
- Generation of biofuels

1st Generation Biofuel	Produced from edible items like sugar,corn,starch.	Higher carbon content and emit greenhouse gases.
2nd Generation biofuel	Produced from leftover food crops like rice husk, wood chips	Greenhouse content less than 1st generation biofuel
3rd Generation biofuel	Produced from microorganisms like algae.	Carbon Neutral (CO2 emitted=CO2 sequestered)
4th Generation biofuel	Produced from genetically engineered crops like GM crops	Carbon Negative

## Common biofuels used

Bioethanol	Produced from corn and sugarcane using fermentation process. E10 is the most common blend in which 10 per cent composition is Ethanol
Biodiesel	Produced from vegetable oils like soybean oil or palm oil, vegetable waste oils and animal fats using transesterification process.
Biogas	Produced from organic matter like sewage from animals and humans by anaerobic decomposition.

# GOVERNMENT SCHEMES PROMOTING ETHANOL PRODUCTION

NATIONAL POLICY ON BIOFUELS (2018)



Boosts ethanol blending using diverse feedstocks.

REPURPOSE USED COOKING OIL (RUCO) INITIATIVE



Promotes biodiesel from used cooking oil.

(EBP) PROGRAMME



Aims for E20 fuel by 2025-26, cutting fossil fuel reliance.

INTEREST SUBVENTION SCHEME



Aids sugar mills/distilleries in ethanol expansion.

PM JI-VAN YOJANA (2019)



Supports 2G ethanol from agri-waste.

TARGET:

The government set an ambitious target of achieving 20% blending by 2025 (from existing 15 %)

# Global Biofuels Alliance (GBA)

- The GBA is one of the priorities under India's G20 Presidency.
- The USA and Brazil, which are working with India to build the GBA, are seen as global leaders in biofuels and account for 55 percent and 27 percent of global ethanol production, respectively.
- The GBA is also being supported by major international organizations like the World Economic Forum, the International Energy Forum, and the International Energy Agency, among others.
- The Alliance is expected to be launched on July 22 during the G20 Clean Energy Ministerial in Goa.

# **About Biofuel**

- Biofuel is a fuel that is produced over a short time span from biomass, rather than by the very slow natural processes involved in the formation of fossil fuels, such as petroleum.
- However, the word biofuel is usually reserved for liquid or gaseous fuels, used for transportation.
- Most of biofuel consumption occurs as a blend with refined petroleum products such as gasoline, diesel fuel, heating oil, and kerosenetype jet fuel.
- The most common biofuels now are Bioalcohols such as ethanol, propanol, and butanol; Biodiesel; Bio-oils.

# Q1. Consider the following statements regarding E20 fuel in India:

- 1. E20 fuel consists of 80% ethanol and 20% gasoline.
- 2. Ethanol used in E20 fuel can be derived from crops such as rice and maize.
- 3. E20-tuned vehicles started rolling out in India from April 2025.

Which of the statements given above is/are correct?

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 and 3 only
- D. 2 only

# 'It's like writing a poem': maths prize winner Rajula Srivastava

Rajula Srivastava has won the Maryam Mirzalchani New Frontiers Prize for her work in harmonic analysis and analytic number theory. She discovered her love of maths in school, and then went on to major at the National Institute of Science Education and Research, Bhubaneshwar

#### Robini Subrahmanyam

hen Rajula Srivastava was first notified about a prestigious prize, she was quick to dismiss it. All she Two asking if alse was free for a chat. Two a professor at the University of California a professor at the University of California Los Angeles, is widely considered one of the most gifted mathematicians of our

"I obviously through it was a scam," abe said.

But then she got a second email from him ten minutes later, adding in Zoom.

Galler, and the said of the scan of the fake, she proceeded to cautiously respond. During their clast, "Tao broke the news that she had won the Maryam Mirzakham New Frontier Prize, an initiative of the breakthrough Prize in Mathematics, for her work in hormousle.

analysis and analytic number theory. She couldn't believe it. "I told him I thought it was a scam, and he found that very funny, isayingi 'maybe I want to seam a theorem out of you or something," she said with a laugh. "It was surread, the way life call) went."

A fondness for puzzles Srivastava, a Hirsebruch Research Instructor at the University of thom and the Max Planck Institute for Mathematics in Germany, grew up in a science-loving

kindergerten," she said.

Althe also realised she dish't like doing lab work, but she did enjoy selving pusades. At the age of it, she decided she wanted to be a mathematician and went on to do an irriegrated master's degree at the National Insistince of Science. Education and Bosearch (NISER).

Mattin.

She then write her master's thesis in harmonic analysis, the study of functions and how they can be represented in term of their frequencies – a topic she had begun to like. For her Phis, she chose to go to the University of Wisconstit-Madisor mainly brecose of its log harmonic.

analysis group.

Into the music can be broken depending the harmonies, signals can be broken down into the frequencies that make them up. "But you need to be able to do it a sensible way, or but the information you have in this breakdown should be such that you should be able to reconstruct your complicated signal once more from these pieces," lirivastava

explained.
That's the basic idea of harmonic That's the basic idea of harmonic analysis, where one breaks down functions in terms of their frequencies or "harmonics" using a method called the Fourier transformation. One can imagine these frequencies to lie on a line, but you these requestions to set a line, but you can also ask those questions in higher dimensions, Srivastava said, "Then it's also about geometry, about the patterns and the shapes in which these waves are

and the shapes in which these waves are arranged."

arranged the arranged minerational wave, the arranged mineration of the state of the shapes of the state of t perpendicular to the expanding wave. Her work mostly focused on waves in three or even higher dimensions

accepting a joint position between the mathematics department at the University of Bonn and the Max Planck

University of Bohn and the Max Planck Institute of Mathematics at Bunt. In her Imm there, Iron 2022 to 3024, she started diverging into problems at the interface of diverging into problems at the interface of mathematical and a number theories, mathematical and a number theories, first introduced her to counting problems fore the number diverging in the number of sheer curiosity. With her expertise to harmonic analysis, she knew she had a bag of tools at her disposal. Could she



Rajula Scivestava is grateful for her early education in India and to the many Indian :

now use them to count things?

Also offered a simple example. While positioning integers on the ensimber line, we lear that rational numbers have an exact address on the line. Even if it is a fraction, side say M?, the number line can be chupped up into smaller and smaller parts until we have an exact location for it, Proteined numbers don't have an exact.

address, but one can still make a well-admeated guess. "We can say that it's between "We can say that it's between 1/1,000,000 and 2/3,000,000. [for example], which is a very finy part and use those fractions to approximate your point," she explained. "You're saying up to this error, it is between these two

to this error, it is between these two fractions. The fractions of the control of

equally spaced on a one-dimensional number line. So I have a lattice, and I have a shape inside the lattice. And then been a shape inside the lattice. And then lattice get to point so the manifold?" That's have the two ideas—of harmonic analysis and counting points in 30 apace—converge. "If you know that Jammonic analysis and counting points in 30 apace—converge." If you know have know something about those waves or [Ithiel] frequencies;" she said. As both the wave frequencies and lattices and wave frequencies and lattices are periodic, she worked on using the waves' periodicity to count points on a shape within a lattice. Working on these problems eventually went on to win her



In math, you pretty much just need pen and paper. You can be anywhere, and you can just mart thinking about the problem

the Marvam Miraakhani New Prontiers

More conference in India
Even as one of only two women out of the
3° students doing marks in her
department as NiGR, she didn't feel any
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per integrated master's program in India,
sfine was confident, doing well in her
constantly prove herself to others. But
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the clanged when she were already to she was not only a woman, but she was also non-white. She eventually formed a community and received support from both men and women, but she still felt same allomation at the start when she moved out of India. "You feel that you need to prove

yourself more. You have less of a community to fall back on because there's just less of you," Srivastava said. nus loss of you." Strieutusia suid.
"Sometimes il you're the only brown
woman in the room, you also somehow
you're asking a question, then it better be
a good question, not something stupid."
she thinke frings are changing now,
though, with more women of colour
doing mathe.



menuths."
The rewards from small victories, like penning down one small theorem as part of a larger proof, keep her going. She also grently values the independence of not baving immediate deadlines and not needing to rely on expensive reasources to work on her renearch questions. The atter is often the case in other fields like biology, "In math, you pretty much just need pen and paper. You can be anywhere, and you can just start thinking about (the problem)," she said. "Maybe you need a baard and chall, and that's n." On a day-to-day basis, if she's really ficused on a problem, matte is almost like meditation for Srivastava. She like meditation for Struatava. She described how some binks of it like a cross between art and science. "There's something which is just in your brain and then somethow you prove (ft.), and then it's true. Once it's true, it will always stay," she said.

own career. Currently a visiting research fellow at the University of Edinburgh, she will soon inove bask to the University of Wisconsin-Madison and continue working

on the intersection of harmonic analysis and number theory, she decided to move

abroad long term because her husband is German, and it was legistically easier to

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Another reason was more expansive to people and resources and being updated on new research developments, since many of the big conferences don't happen in India, "I feel like they should do more

move to the US than to India for both of

"In some ways, it's like writing a story or a poem. I like the fact that you can create something which facts in that way."



## Most flowers usually pick one father and stick with him

#### Vanudevan Mukumth

Conflicts Into Insale every flower with multiple seeds. The embryosy joids for read to the conflict of the control of the conflict of the conflict of the control of the conflict of the confl

study – including scientists from the Ashoka Trust for Research in Ecology and the Environment, Bengaluru and the Nature Conservancy and the Swaniii Initiative in New Politi – provides a unifying picture of how kin conflict, pollinator behaviour, and flower design shape reproduction across the plant lengton.

The actentials assurched the research

The accentiate searched the rendershilterature, focusing on spage published between 1984 and 20044, and selected 192 cataldate smallers. They finally shortlined flowering-plant families. For each of these species, they tracked down genetic studies that compared the FNA imagerprists of ability seaded and converted the renders of the sea for the season of the season

donors per fruit.
Upon analysis, the scientists found that the beadine numbers overturned the textbook story. Among the 63 species, 15 for 24%) had strictly single paternity, and another 18 (28%) averaged fewer than 1.5 fathers per fruit. Taken together, 52% of the sample displayed de facto monogamy at the flower level. The remaining 48% did allow multiple fathers, yet even here most

The plant world may resemble animals more closely than once thought single fathers dominate with true genetic polyandry the exception rather than the rule

free-for-all that scientists once assumed

group consistently hosted fewer fathers per fruit.

r truit. The seed number also mattered less than expected. Although very large fruits sonsetimes had several donors, no overall rise in pollen parents accompanied an increase from tens to hundreds of seeds. increase from tens to hundreds of seeds.
Indeed, across all species, the link
between seed count and paternity
vanished after the scientists controlled for

varianced after the electricis controlled to sevolutionary relatedness. The term of the term of the first team who found to the term of the paternity patterns, implying that his conflict and pollinator precision evolve quickly when seluction demands it, as a result, the plant world may recentible animals more slewely than once thoughts single fathers demands, with true genetic polyandry the osception rather than the

In their paper, published in 
Proceedings of the National Academy of 
Science in August 5, the scientists have 
urged more fieldwork, especially 
measurements of their their judicional 
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for foodback and suggestions



# It's like writing a poem': maths prize winner Rajula Srivastava

Rajula Srivastava has won the Maryam Mirzakhani New Frontiers Prize for her work in harmonic analysis and analytic number theory. She discovered her love of maths in school, and then went on to major at the National Institute of Science Education and Research, Bhubaneshwar

Robini Sebrahmanyani

hen Katola Srivastava was first notified about a prestigious prize, she was quick to dismiss it. All she got was a cryptic email from the personal email address of mathematician Terence Tao asking if she was free for a char. Tao. a professor at the University of California. Los Angeles, is widely comidered one of the most gifted murhematicians of our time. Srivastava couldn't think of a reason why he would want to talk to her.

"I obviously thought it was a scam," site said.

But then she got a second email from him ten minutes later, asking to Zoom. After ascertaining that the email was not fake, she proceeded to cautiously respond. During their char, Tao broke the news that she had won the Maryam Mirzakhani New Prontiers Prize, an initiative of the Breakthrough Prize in Mathematics, for her work in harmonic analysis and analytic number theory. She couldn't believe it.

"I told him I thought it was a scam, and he found that very funny, [saying] 'maybe I want to scam a theorem out of you or something," she said with a laugh, "It was surreal, the way (the call) went."

Srivastava, a Hirzebruch Research Instructor at the University of Bores and the Max Planck Institute for Mathematics in Germany, grew up in a science-loving

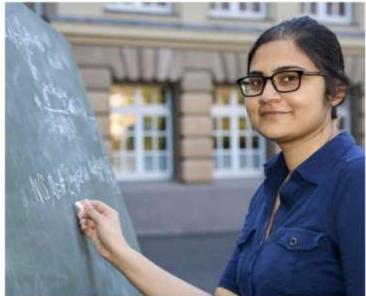
In school, mathematics happened to be the subject she enjoyed the most among all the sciences: because it involved the least amount of memorisation, "Once you understand the logic behind things, you don't have to memorize a lot of things ... beyond the multiplication tables in

kindergarten," she said. She also realised she didn't like doing lab work, but she did enjoy solving prozeles. At the age of 15, she decided she wanted to be a mathematician and went on to do an integrated master's degree at the National Institute of Science Education and Research (NISER). Hhubaneshwar, where she majored in

She then wrote her moster's thesis in harmonic analysis, the study of functions and how they can be represented in terms of their frequencies - a topic she had begun to like. For her PhD, she chose to go to the University of Wisconsin-Madison mainly because of its big harmonic analysis group.

Just like music can be broken down into harmonies, signals can be broken down into the frequencies that make. them up. "But you need to be able to do it in a sensitive way, so that the information year have in this breakdown should be such that you should be able to reconstruct your complicated signal once more from these pieces," Srinastava

That's the basic idea of harmonic analysis, where one breaks down functions in terms of their frequencies or "harmonics" using a method called the Pourier transformation. One can imagine these frequencies to lie on a line, but you can also ask these questions in bigher



Rojula Srivastava is grateful for her early education in india and to the reasy indian aniversities, including hers, that invest a lot in their students with schelarships and low fees, oreconnits, and sowe special attractions

now use florn to count things? She offered a simple example. Whilepositioning integers on the number line, we learn that rational numbers have an exact address on the line. Even if it is a fraction, like say 5/7, the number line can be chopped up into smaller and smaller parts until we have an exact location for it. Irrational numbers don't have an exact address, but one can still make a

"We can say that it's between L/L000,000 and 2/1,000,000, (for example), which is a very they part and use those fractions to approximate your point," she explained. "You're saying up to this error. E is between these two fractions?

well-educated miess.

But she worked on a similar question in higher dimensions. Instead of a line, imagine a three-dimensional shape like a sphere. Now if the point you want to map is somewhere on the manifold of this shape, what can you say about its approximability? "That's how the geometry comes in," she said.

In higher dimensions, the fractions lie on a grid or lattice instead of being equally spaced on a one-dimensional number line. 'So I have a lattice, and I have a shape inside the lattice. And then I'm asking: how close can points of this lattice get to points on the manifold?"

That's how the two ideas - of harmonic analysis and counting points in 3D space - converge, "If you know that

In math, you pretty much just need pen

and paper. You can be anywhere, and you can just start thinking about the

#### DESERVE STREET LINEX EIGHTY OF BOAYS AND THE SHARPLANCE.

the Maryam Mirzakhani New Prontiers

#### More conferences in India

Even as one of only two women out of the 25 students doing maths in her department at NISER, she didn't feel any specific barriers to her progress during her integrated master's program in India. She was confident, doing well in her exams, and didn't have the need to constantly prove herself to others. But that charged when she went abroad: now she was not only a woman, but she was also non-white. She eventually formed a community and received support from both men and women, but she still felt. some alienation at the start when she moved out of India.

"You feel that you need to prove yourself more. You have less of a community to fall back on because there's just less of you," Srivastava said.

Srivastava is coming full circle in her own career. Currently a visiting research fellow at the University of Edinburgh, she will soon move back to the University of Wisconsin-Madison and continue working on the intersection of harmonic analysis and number theory. She decided to move abroad long term because her husband is German, and it was logistically easier to move to the US than to India for both of

Another reason was more extrosure to people and resources and being updated on new research developments, since many of the big conferences don't happen in India. "I feel like they should do more Iconferences! in developing countries. not just India, but also other countries of the Global South," she said.

Srivastava enjoys being part of a broader community friends and associates who all speak the common language of maths and whom she was able to meet and collaborate with on problems once she moved out of India. But she's also grateful for her early education in India and to the many Indian universities, including bers, that invest a lot in their students with scholarships and

Like writing a poem But doing maths can also be very frustrating at times, she said. Like when one spends most of the time researching answers to a problem instead of being able to just sit down and solve it.

Winner	Rajula Srivastava, Indian mathematician
Award	Maryam Mirzakhani New Frontiers Prize for work in harmonic analysis and analytic number theory
Early Education	Majored in mathematics at NISER, Bhubaneswar; grew up in science-loving family
Master's Thesis	Focused on harmonic analysis — how functions are represented using their frequencies
PhD	University of Wisconsin-Madison
<b>Current Position</b>	Visiting research fellow at the <b>University of Edinburgh</b> , soon to join <b>University of Wisconsin-Madison</b>
Research Areas	Harmonic analysis, number theory, approximation of irrational numbers, geometry of shapes

# Maryam Mirzakhani New Frontiers Prize - Overview

Aspect	Details
Purpose	Honors outstanding early-career women mathematicians
Eligibility	Must have completed PhD within the past 2 years breakthroughprize.org +14
Organizer	Breakthrough Prize Foundation (part of the Breakthrough Prize in Mathematics series) Wikipedia breakthroughprize.org
Prize Amount	US\$50,000 simons.berkeley.edu mpim-bonn.mpg.de breakthroughprize.org
Frequency	Awarded annually, up to three recipients per year   breakthroughprize.org +1

# 2025 Laureates include:

- Ewin Tang Awarded for classical analogs of quantum algorithms and advances in quantum machine learning humsci.stanford.edu +3 simons.berkeley.edu
- Si Ying Lee Recognized for work on the theory of Shimura varieties math.harvard.edu +1
- Rajula Srivastava Honored for her research at the intersection of harmonic analysis and number theory | mpim-bonn.mpg.de +3

# Finland-based thinktank exposes US double standard

Sanjay Dutta & Sachin Parashar TNN

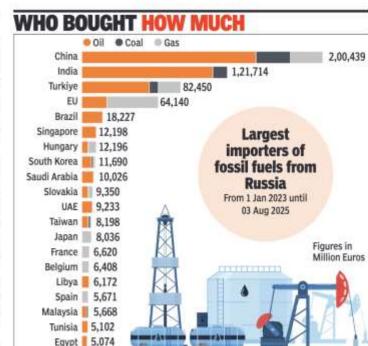
New Delhi: European Union countries account for 23% of Russia's revenues from fossil fuel exports against India's 13% since the beginning of the Ukraine conflict, while G7+ tankers are currently transporting more than half of those barrels, data published by CREA (Centre for Research on Energy and Clean Air) shows.

Indian govt sources here said this further spotlighted Western hypocrisy in targeting India for securing its energy interests, while ignoring similar action by other countries. European Union has been procuring not just energy but also fertilizers, chemicals, iron, steel and transport equipment from Russia.

"These figures only vindicate India's emphasis on ensuring for its citizens regular and affordable energy supplies," said a source on condition of anonymity.

Seen in the backdrop of the US on Wednesday doubling tariff on India to 50% for "fuelling the Russian war machine" by buying its oil and last month's EU sanction on Indian refining entity Nayara Energy, the Finland-based independent think-tank's latest report exposes what New Delhi describes as West's "double standard" in singling out India.

The report says Moscow has raked in EUR 923 billion (92,300 crore) so far from fossil fuel exports such as oil, natural gas, coal, refined fuels and intermediaries. Of this, EUR 212 billion (21,200 crore) came from EU countries compared with EUR 121 billion (12,100 crore) from India. China remained the top bu-yer of Russian



energy with a tab of over EUR 200 billion (20,000 crore).

The report points out the growing role of G7 tankers in transporting Russian oil since the EU's June sanctions. This underlines the disconnect between western policy and practice pointed out by New Delhi. "Since Jan, the G7+ share in Russian oil transport has increased from 36% to 56%," it says. More than half of Russian seaborne oil exports were transported in G7+ tankers in June, reflecting a six percentage point increase over May.

Use of western tanker fleet means those shipments were compliant with the price cap and other terms of the sanctions. India argues it has helped prevent a flare-up in oil prices by buying Russian oil, accounting for about 9% of daily global supply. That is also the key consideration that led the US and the EU toopt for a price cap—rather than choking off the flow with sanctions— for curbing funding for Moscow's war efforts without spooking the oil markets.

Overall, however, the report does say that "Russian fossil fuel revenues in second quarter of 2025 dropped by 18% year-on-year—lowest in a quarter since the invasion of Ukraine."

Aspect	Details
Think Tank	CREA (Centre for Research on Energy and Clean Air), Finland-based
Core Finding	Western countries, especially the <b>EU</b> , continue importing Russian fossil fuels despite criticizing India
India's Share	India accounts for 13% of Russia's fossil fuel revenues since the Ukraine war began
EU Share	EU accounts for 23%, despite sanctions
U.S. Hypocrisy	U.S. doubled tariffs on Indian imports citing Indian purchase of Russian oil, but <b>ignored</b> larger buyers like EU and China

Top Importer	China: EUR 2,00,439 million
India's Import	EUR 1,21,714 million (2nd highest)
Transport Mode	Over 50% of Russian fossil fuel exports were transported using <b>G7+ tankers</b> in June 2025
Western Tactics	Opted for <b>price cap</b> on Russian oil rather than a full ban, ensuring continued flow
India's Stand	Prioritized energy security and affordable energy for its citizens
Q2 2025 Result	Russia's fossil fuel revenues dropped 18% YoY, the lowest since war began

# Q1. With reference to India's energy imports from Russia, consider the following statements:

- 1. India is the largest importer of fossil fuels from Russia since the Ukraine war began.
- 2. India's imports account for a higher share of Russian fossil fuel revenue than the EU.
- 3. The EU has imported not only fossil fuels but also fertilizers and chemicals from Russia.

Which of the above is/are correct?

- A. 1 and 3 only
- B. 2 and 3 only
- C. 3 only
- D. 1, 2 and 3

# RBI Holds Repo Rate and Lowers Inflation Forecast

- The Reserve Bank of India's (RBI) in its **Monetary Policy Committee (MPC)** meeting decided to keep the reporate unchanged at 5.50%.
- What is the Repo Rate?
- The repo rate is the **rate at which the RBI lends short-term money** to commercial banks. **It is the key policy tool** used by the RBI to control liquidity, inflation, and economic growth.
- A lower repo rate means banks can borrow from the RBI at cheaper rates. This encourages banks to lower lending rates, leading to:
  - Easier access to credit for consumers and businesses
  - Boost in investment, consumption, and economic activity
  - Increased liquidity and money supply
  - This can stimulate growth, especially during economic slowdowns

# Policy Rates

Policy Repo Rate : 5.50%

**Standing Deposit** 

: 5.25%

**Facility Rate** 

**Marginal Standing** 

: 5.75%

**Facility Rate** 

**Bank Rate** : 5.75%

**Fixed Reverse** 

: 3.35%

Repo Rate



# Lending / Deposit Rates

**Base Rate** : 8.50% - 10.30%

**MCLR (Overnight)** : 7.95% - 8.20%

**Savings Deposit** 

: 2.50%

Rate

Term Deposit Rate

: 5.85% - 6.70%

> 1 Year

What is the Monetary Policy Committee (MPC)?

The MPC is a **statutory body** established under
the **RBI Act, 1934** (amended
in 2016).

It is responsible for **fixing the benchmark interest rate** (repo rate) to maintain
price stability while keeping
growth in mind.

# It consists of 6 members:

- 3 from the RBI (including the Governor as Chairperson),
- 3 external members appointed by the Government.

Decisions are made by majority, and each member has one vote. In case of a tie, the RBI Governor has the casting vote.

# Flexible Inflation Targeting Framework (FITF)

India adopted a Flexible Inflation Targeting Framework (FITF) in **2016.** Under this, the government, in consultation with the RBI, sets an inflation target every five years.

Under this framework, the Government sets the inflation target every five years in consultation with the RBI. The current mandate, effective until March 31, 2026, specifies a CPI inflation target of 4%, with a tolerance band of ±2%, i.e. between 2% and 6%

# **Reasons Behind the Policy Decisions**

**Sharp Decline in Inflation:** CPI inflation fell to **2.1**% in June 2025, a six-year low.

• Food prices, especially vegetables and cereals, have shown deflationary trends. This led to the downward revision of FY26 inflation forecast to 3.1%.

**Global Uncertainties:** Rising trade tensions like US tariffs and volatile oil prices create external risks.

**RBI had already cut the repo rate by 100 basis points** earlier in 2025. The committee wants to observe the full impact of these cuts on the economy.



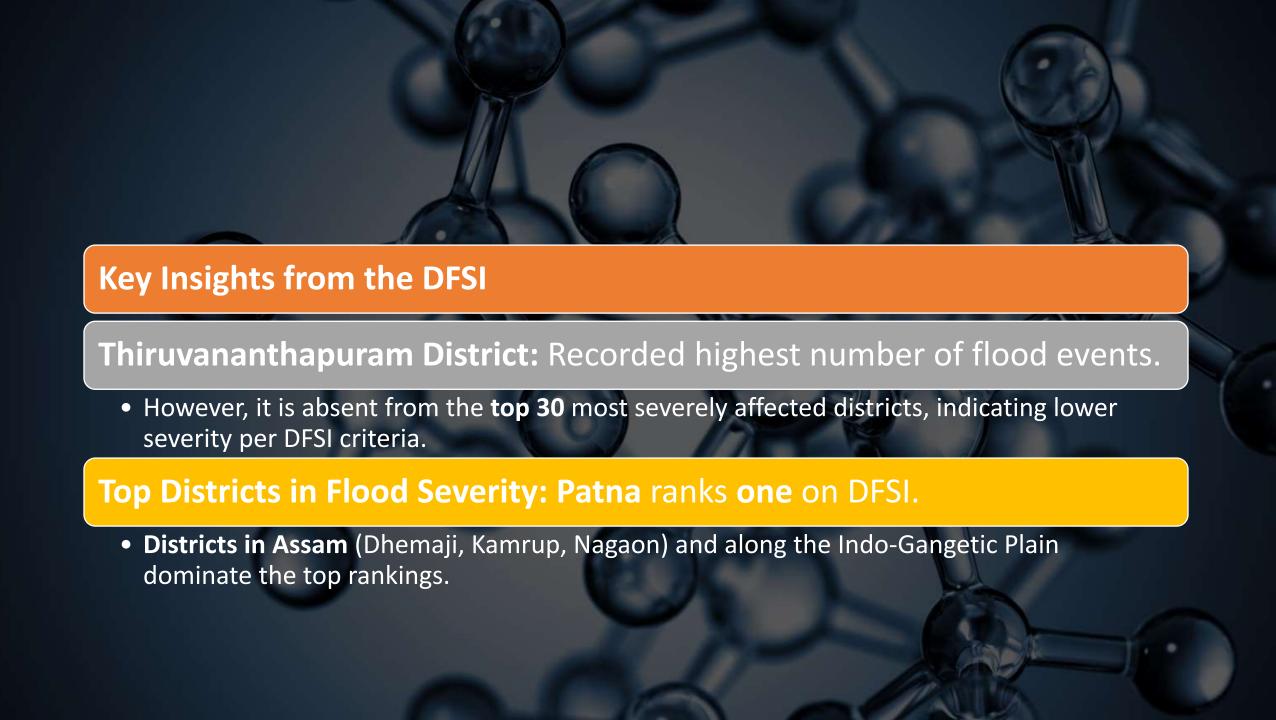
Researchers from IIT Delhi and IIT Gandhinagar have developed a **District Flood Severity Index (DFSI)** to comprehensively assess the severity of floods across Indian districts.

**District Flood Severity Index (DFSI)** 

DFSI is a data-driven tool designed to assess and categorize flood severity at the district level, India's primary administrative unit for planning and disaster management.

The index is used to identify districts most at risk and guide resource allocation for mitigation and response.

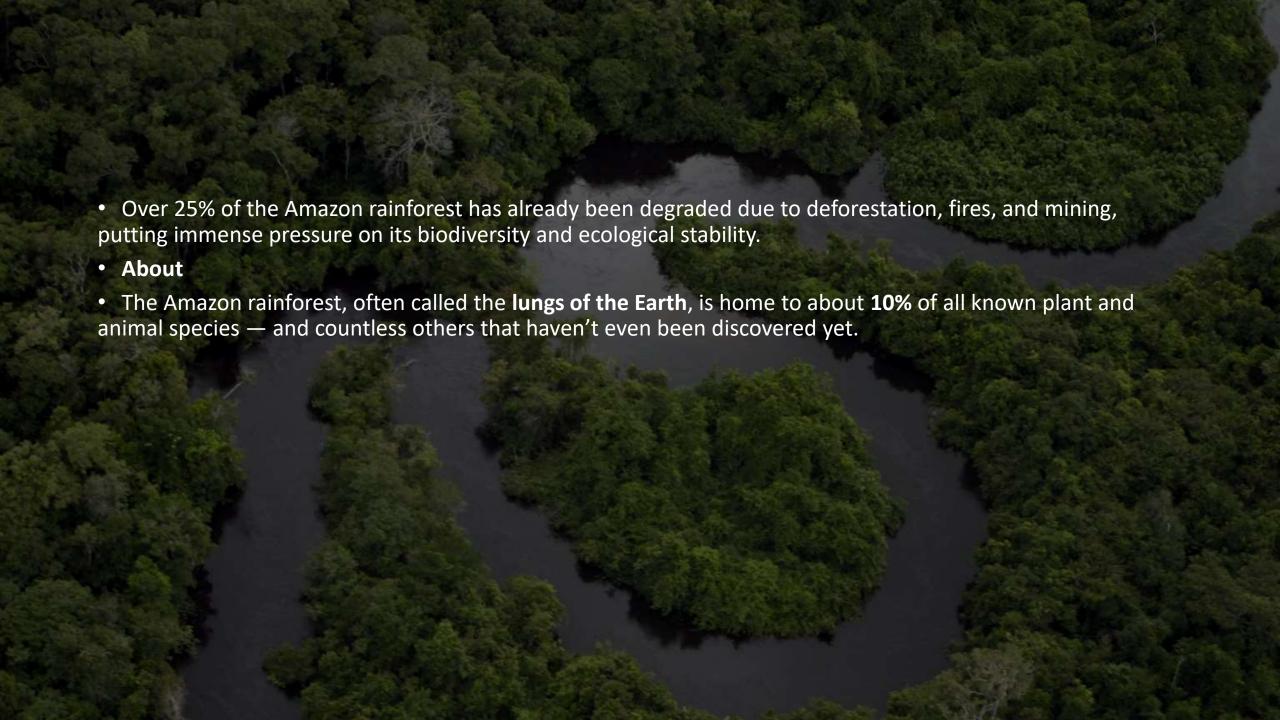
- Key Parameters Considered:
  - Mean duration (in days) of all flooding events in a district.
  - Percentage of district area historically affected by floods.
  - Total deaths and number of people injured due to floods.
  - **Population size** of the district.
- Data Used: Sourced mainly from the Indian Meteorological Department (IMD), which has been collecting flood-related data since 1967.
  - Custom 40-year spatial datasets developed at IIT Delhi.



# Necropolitics

- Necropolitics is highlighting how states expose marginalised groups to violence and neglect, normalising their suffering.
- Concept of necropolitics
- It explores how political power determines whose lives are protected and whose deaths are normalized or even orchestrated.
- It was coined by **Cameroonian scholar Achille Mbembe** .
- It was built on **Michel Foucault's idea of biopolitics** which manages life through institutions and public health .
- It focuses on the governance of death, exposing how certain populations, such as refugees, the poor, racialized groups, and queer communities, are systematically abandoned or targeted.





The Amazon spans 8 countries and one overseas territory: Brazil, Bolivia, Colombia, Ecuador, Guyana, Peru, Suriname, Venezuela, and French Guiana (a French overseas territory).

It stores around **250–300 billion tonnes of carbon**, equivalent to **15–20 years of global greenhouse gas emissions**, and generates rainfall that supports some of the world's largest cities and most vital agricultural regions.

It is home to over **47 million people**, including **2.2 million Indigenous and traditional communities**, whose cultures and livelihoods are deeply tied to the forest.

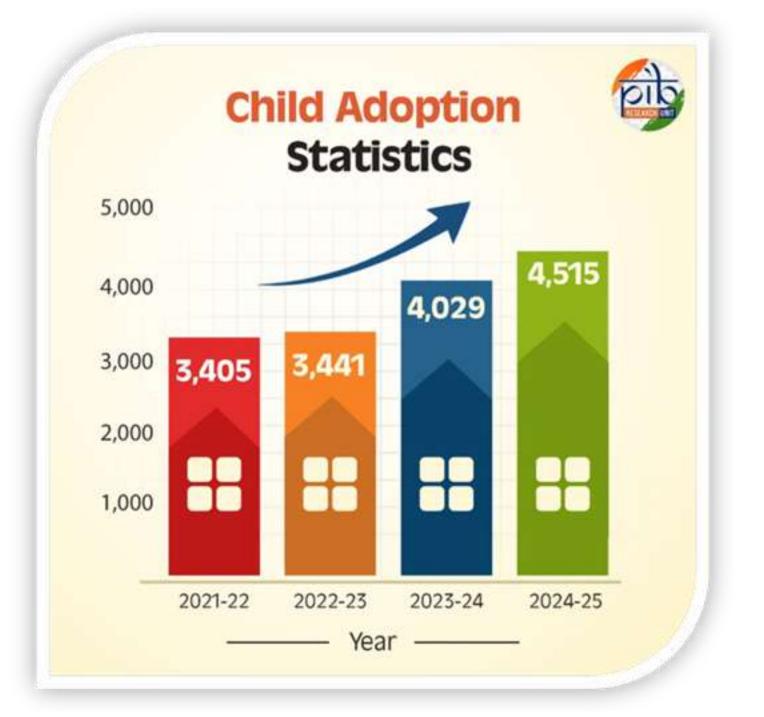




The Central Adoption Resource Authority (CARA) has been unable to bridge this gap between the number of children available for adoption and the number of prospective parents, resulting in prolonged delays in the adoption process.

The waiting period for parents to receive an adoption referral has risen from 3 years in 2022 to approximately 3.5 years in 2025.

- What is the Status of Child Adoption in India?
- State of Child Adoption in India: In 2024–25, 4,515 children were adopted, the highest since 2015.
  - Of these, **4,155** were domestic adoptions, reflecting a growing acceptance of legal adoption in the country.



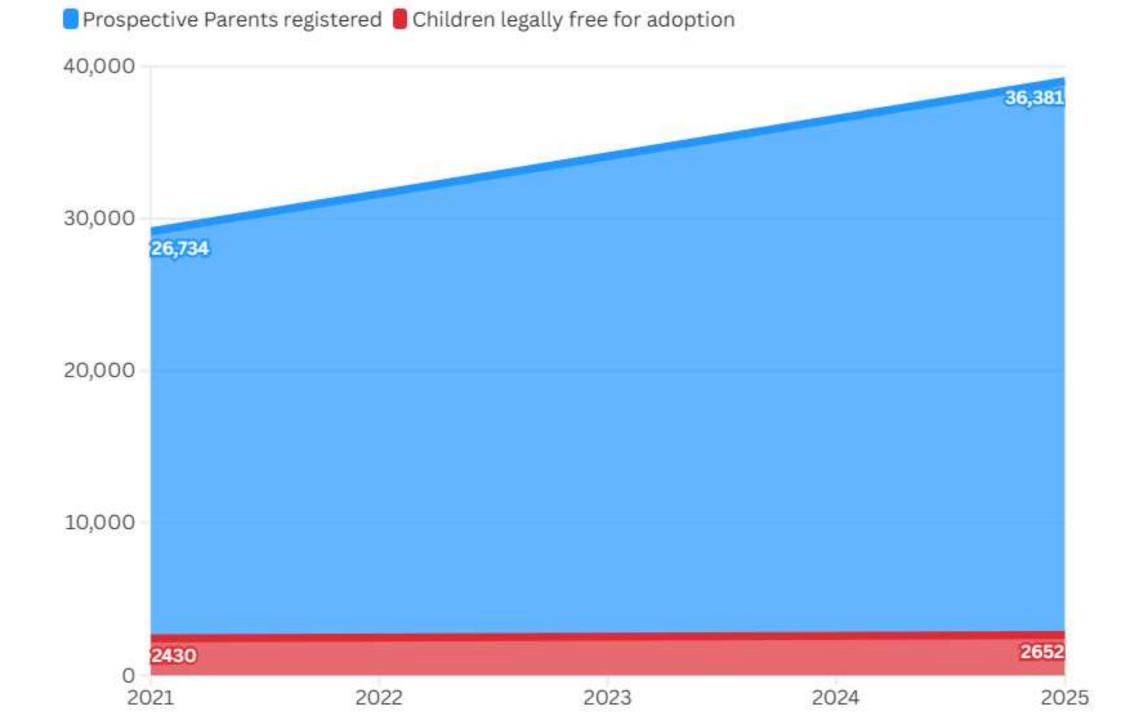
- Nodal Central Agency: The Central Adoption Resource Authority (CARA), established under the Juvenile Justice Act, 2015 is responsible for overseeing both domestic and international adoptions.
- State/UT Responsibility: The implementation of the Juvenile Justice Act, 2015 at the state and Union Territory level is carried out by various agencies, including:
  - State Adoption Resource Agencies (SARA)
  - Local Child Welfare Committees
  - District Child Protection Units (DCPUs)

- Legal Framework: Hindu Adoption and Maintenance Act (HAMA), 1956: HAMA, 1956 permits legal adoption for individuals from the Hindu, Buddhist, Jain, and Sikh communities.
  - Notably, adoptions under HAMA do not require registration with CARA.
- Juvenile Justice (Care and Protection of Children) Act, 2015: It governs adoptions for all citizens in India, regardless of religion.

- Under this Act, prospective adoptive parents are required to **register on CARA's portal**, following which a **Specialised Adoption Agency (SAA)** conducts a **Home Study Report (HSR)**.
- If found eligible, they are matched with a child who has been declared legally free for adoption.
- International Framework: The Hague Convention on Protection of Children and Cooperation in Respect of Intercountry Adoption (1993) ensures that international adoptions are carried out in an ethical, legal, and transparent manner.

- What are the Key Challenges Hindering the Child Adoption Process in India?
- Widening Demand–Supply Gap: There is a significant gap between Prospective Adoptive Parents (PAPs) and adoptable children (13:1), with only a small fraction of children eligible for adoption due to issues like intact parental rights and lack of legal free status.
  - Adoption delays have increased from 1 year in 2017 to 3.5 years in 2025, leading to concerns over illegal or informal adoptions, as highlighted by a Parliamentary Committee.

•



- Mismatch in Age & Parental Preference: Around 34% of adoptable children are above 14 years, while most Indian parents prefer infants (0–2 years). This preference bias results in older and special needs children being overlooked.
  - As per CARA data (2024), 60% of adopted children are female, and 80% belong to the 0–2 age group, reflecting a strong parental preference for younger children.
- High Rate of Child Returns: Between 2017–2019, there was a rise in adoptive parents returning children, 60% were girls, 24% had special needs, and many were over 6 years old.
  - This reflects challenges in adjusting to adoptive homes due to inadequate counselling and preparation.

# Adoption Eligibility Criteria in India

# **Who Can Adopt**

# **Who Cannot Adopt**

# **Married Couples:**

- Must be married and living together for at least two years.
- Age difference with the child should not exceed 45 years.
- Should not have more than two living biological children.

# Single Parents:

Must be above 30 years of age.

### General Eligibility:

- Anyone, regardless of gender or marital status, can adopt.
- Must meet other criteria like age, financial stability, and ability to provide a supportive home.

- Convicted of an offense involving moral turpitude or punishable under IPC or other laws.
- Found guilty of child abuse or cruelty towards a child.
- Found guilty of abandoning or neglecting a child.
- Undergoing treatment for any life-threatening or infectious disease.
- Declared of unsound mind by a competent court.
- If one spouse in a couple has been declared of unsound mind or is undergoing treatment for any life-threatening or infectious disease.
- Divorced or legally separated couples.
- Individuals under 21 years of age, married or single
- Single male cannot adopt a girl child.

# Skill Impact Bond (SIB)

- What is the Skill Impact Bond (SIB)?
- **About:** SIB is India's first **Development Impact Bond (DIB),** launched in **2021** focused on **skills training and job placement.** 
  - It shifts focus from **enrollment to outcomes** like placement and retention. It uses **private-sector funding** to address social and development challenges.
- Objective: To skill 50,000 youth, with 60% women, especially from marginalised and rural backgrounds, and ensure at least 30,150 retain jobs for 3+ months.

- Key Highlights of the SIB Report 2025:
  - Top States: Jharkhand (27%), UP, Maharashtra, Odisha, and Telangana had highest enrollments.
  - Popular Sectors:
    - Women: Mainly trained in apparel, with rising numbers in retail, IT-enabled services (ITeS), and BFSI (banking, financial services, and insurance)
    - Men: Moving from construction to sectors like automotive and telecom.

- Women-Led Skilling: Over 72% of 23,700+ trainees were women from vulnerable backgrounds. Female certification rate reached 92%, and job placement was 81%. Self-employment among women rose from 6% to 14%.
- **Better Job Outcomes:** 75% of all trainees got jobs, and 60% stayed employed for over 3 months—above national average. Female employment increased from 35% to 48%.
- **Gender Pay Gap:** Men earned more (Rs 12,400–15,700) than women (Rs 11,500–13,000) despite similar job outcomes.

# **HOW IT WORKS**



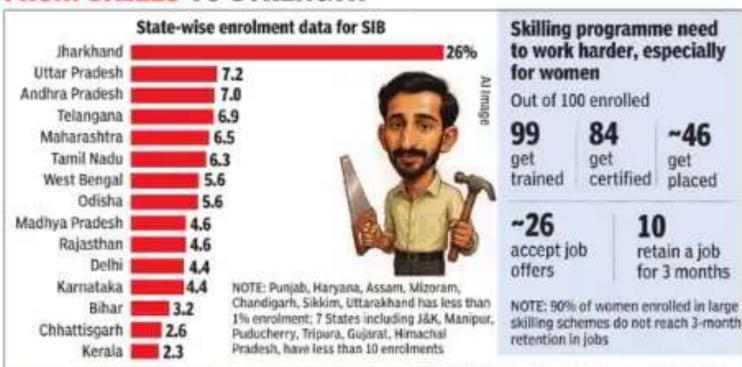
Risk investors commit USD 4 million, used to fund service provider interventions upfront Service Providers deliver skilling interventions to improve employment outcomes Employment outcomes are independently verified by third-party evaluator

Outcome funders repay risk investors initial investment for each positive outcome achieved – upto USD 14 million over 4 years

The Skill Impact Bond links funding to achievement of outcomes, inverting the process of conventional grant-making which often funds activities and inputs. The initial financing to training providers is supported by risk investors, who are repaid by outcome funders on the achievement of predetermined, independently verified outcomes achieved by training partners.

This results in maximum impact for money spent, aligned incentives between partners, thus creating measurable social impact that spur social change

# FROM SKILLS TO STRENGTH



## SIB status since November 2021

- The Skill Impact Bond aims to empower 50,000 young adults, with at least 30,150 retained in jobs for 3 months (at least 60% of whom will be women)
- ➤ SIB programme has completed enrolment for 7 cohorts of implementation (out of a total 8 planned cohorts) & enrolled 42,285

- candidates (85% of the 50,000 target)
- Of the 23,766 candidates enrolled and trained in first four cohorts (17,177 women and 6,589 men)
- > 75% (17,886 candidates) have joined jobs, and 60% (14,153 candidates) have remain employed for at least three months

Work rate amongst population in the age group 15-59 years who received formal vocational/technical training

Employed

69%

Unemployed

9%

Outside the labor force

22%

Even among formally skilled population, worklessness remains a challenge, with -30% people not in paid work

- What is the Status of Skill Development in India?
  - Low Employability: As per India Skills Report 2024, only 51.25% of assessed young people in India possessed the necessary skills to be employable.
  - Low Formal Training: As per the Economic Survey 2023–24, only 4.4% of youth are formally skilled, and 16.6% are informally trained.
  - **Skill Gaps in Industry:** According to ManpowerGroup's (US-based MNC) 2025 Global Talent Shortage Survey, **75% of global employer**s are struggling to **find skilled workers**.
    - India has a 60%-73% demand-supply gap in key roles such as ML engineer, data scientist, DevOps engineer, and data architect.

Underemployment: As per Economic Survey 2024–25, over 50% of graduates and 44% of postgraduates are in low-skill jobs, indicating inefficient workforce utilisation.

**Limited Women Participation:** In India, women constitute **40% of STEM** students but only **14-27%** of **STEM professionals**, according to the **Ministry of Science and Technology**.

# Word of the day

# **Tapestry:**

a heavy textile with a woven design, used for curtains and upholstery; a wall hanging of heavy handwoven fabric often with pictorial designs

Synonyms: tapis, arras

Usage: The artist made a beautiful tapestry.

Pronunciation: newsth.live/tapestrypro

International Phonetic Alphabet:/ˈtæpəstui/

