









THE **EXPRESS**



Class24 App download

Class pdf

10 Questions test related to this class

Don't educate your children to be Rich. Educate them to be Happy. So when they grow up they will know the value of things not the price.





'Global strife points to need for strong Air Force SOUTH IS PARK I



Market indices snap six-day losing streak DUSINESS & PAGE AV

Sunset for the U.K.'s coal-fired power sector We can ensure we don't make the same mistake.



MENT ASSISNABINE Confident India faces the Lanka challenge SPORT IS PAGE 10

BJP keeps Haryana, NC-led alliance bags J&K

BIP scores 2 seats over majority mark in Harvana in its third consecutive victory

MEM'S IN PAGE 6

he BIP won a clear roundate in Harya-na as did the Na-tional Conference led at ligace in Jammu & Kashmir, as the Assembly election results were an nounced on Tunstay. The results posted on

the Election Commission website show the III^b won 48 seats in Haryana, two above the majority mark in the 90 member Assembly.

The Congress wan 37 seath.
In J&K, the National
Conference led affance
wan 49 mals, of which the
NC alone got 42.

NC alone gos 42.
The Congress won only
six of the 32 seats it contested; of the six, only one
was in lamma. In contrast,
while the lift Side to open
its accessed in the Kashmir
Valley, it swept through
famma, winning 29 seats.
This is the first mund of
polls after the Lok Sabha
election.

The results come as a huge relief for the BIP and will help it arrest the narracline, which began after it

Must move away from antagonistic approach: Omar

BEINAGAB JMN's probable (Pref Minister Orner Abdullah and the Union Territory would not benefit approach. "There is a need for some relationship building approach. There is a need for series relationship building with the flag Bhaves in J&H. As present, there is no relation between the two of us. We ston't know each other, Some don't know each other to repair needs to be done a will not benefit with the L having an antagonistic approach toward elected government," a sace a

failed to cross the majority mark in the Lok Sabha. The results also are the mood for the upcoming polls in Maharashtes and flackhared.

Congress disappointed The Congress, which had gone into the elections exuding confidence that it would win Haryana and re-gister a significant pre-sence in J&K, was disappointed on both counts.

Stars reflect

Cong. falls short with 37 seats in Haryana, secures I&K as part of the INDIA bloc

INDIA bloc-1, BJP-1

RJP defeated the 'divisive policies' of Congress in Harvana, says Modi

CY COM-APRILE

new terms thereany EM Hussell

	70.000000	Small	Minte share
THE PERSON NAMED IN	866±	4.10	A 720
POWWOOD IN	0.00	.14	110.076
-	ARPER		024
Dis Well	RHID	2	3.795
*100 Texas	Others		1.07%
10 (20 1)	#64.90. 42 (23.4%) [196.] c (12%) JOHPF G (1.2%) [c (12%) + (0.4%) Emig walk; off, strespection Corar Abdallah selebrating his porty's visiony at his residence of Stragge.		

This election marked the first time in a decade that J&K vitters elected a new Assembly, it is also the first Assembly election sinus the 2018 legislation struck down Article 270 while State into two Union Terrisories.

Addressing 800 workers, Prime Minister Narendra Modi said the peaceful con-duct of the J&K election was a victory of the Indian

lemocracy.
For the Sattemal Confe-For the National Confir-cence, the victory was par-ricularly sweet, consider-ing it came on the back of its leader Omar Abdullarly shock defeat in the Lok-sabha election.

Congress president Mal-

likarnin Kharge congratu-lated both Mr. Abdullah and his father Farooq Ab-dullah, calling the results a verdict against the "anti-

the State.

Mr. Modi emphasised
that the RIP gas votes from
across caste lines and defeated the "devisive policies" of the Congress. The
BIP increased both its vote
share and sent fally.
difference in vote share
difference in vote share

people policies of the MP*. The Aum Andrai Party opened in account for the first time in 1848. This was the text time in Haryana that a party has resumed to power for the fact that the Prime Minister orderlined to emphasise underlined to emphasise the significance of the RIP's victory, pointing out that the incombent govern-ment has lost power in 10 of the I3 elections held in

I&K results a verdict against the RIP's 'anti-people policies', says Kharge

'Cong. was made to lose Haryana, will approach EC

NEW DICLIN

NEW DELSH
The Assembly election results
in Haryana see "tappining,
against apopaler sentiment and
cannot be accepted," the
cannot be accepted," the
common and on Tuesday after
third select in a row in
Haryana. "The Compress has
not lost, flut was made to lose,
one has not hosed the last on
the Haryana results." Congress
general secretary Airgan

fused to accept the results

Congress communica-tions chief Jairon Ramesh said that the results were a

and a defeat of transparent

general secretary Jeiram Rarmsh said, adding, ". shere are serious house raised by out cardidates which we will raise with the EC? to PAGE 9

fused to accept the results in Haryana, with Mr. Khurge calling the results unexpected, former Chief Minister Bluginder Sudi-ty's face in the State, said that the Congress has re-ceived soveral complaints about electronic voting machines or RVMs.

"victory of manipulation"

and a defeat of transparent democratic processes. The Congress asserted that it would continue to follow up on complaints ledged with the Election Commis-sion. Wrestler turned poli-ician Vinesh Plingals, who joined the Congress on the eve of the election, won her seat.

Major setback

Major settsack.
The poll results in Haryana are also a major setheck for the State's regional parties.
Furthern Chautala's Januagak Januara Party, which had made a stunning debut. in the 2019 election by win-ning nearly 18% of the vote share and 10 Assembly scats, was wiped out. Mr. Chautala himself could not

secure his seat.
The Indian National Lok margins, winning only two seats. The AAP, which had failed to strike an alliance with the Congress despite a low rounds of negotiations, draw a blank.

PLIPPING SCRIPTS A TALE OF SHARED DISHOUSE O PAGE 9

INSUDE



Rajnath, German counterpart discuss relations

NEW DELTE

Ahead of German Chancellor Olaf Schools's visit to Inelia late this month, beforce Minister Rajnath Singh and he Gern counterpart Bods Platedos counterpart Borts Philocitus or Suesday discussed ways to Amergifiam defence industrial collaboration in a telephonic conversation, a page 6

NGT asks Kerala for report on hill encroachments

The National Green Tribunal (NGT) white considering a report submitted by the the landetides in Wayenad on July 90, has naked the Persia cestificat in the hill districts of the State to make a

No dialogue with Russia without Ukraine: Kamala

WARTINGTON ISC U.S. Vice-President and presidential candidate Karnata fearls and she would ont, as President, registrate bilaterally with Russian President Madient Puten without Unione covered and decreated for our present and discussed her gun Interview, to PAGE 14

CM (CM



Israel expands invasion into Lebanon, calls for evacuation

between the two parties,

with the Congress getting 39.09% of votes polled, while the BJP won 38.94%.

The Congress has re-

Agence France Presse.

terast ramped up to ground offensive against Hesbolish along Lebanon's southern coast on Tues day, deploying mor troops and urging civilians more the Mediterranean to evacuate. The tran-backed evacuate. The tran-backed Hesholiah sahi it had fired nockets at the taraeli city of Haifa, after the taraeli mil-tary reported projectiles crossing from Lebanon.

foundation of the use statistical physics meth

and ideas in neural circuit

modelling."
Professor Hinton, of the

University of Toronio, and his peers adapted another network called the Boltz-

marn machine to perform cognitive tasks, building on the principles of the Hop-field network, among others

FULL REPORT

PSLV C-37 rocket body re-enters the earth's atmosphere: ISRO

The Indian Space Research Organisation (ISRO) said that the upper stage of the Polar Satellite Launch Veh-icle C-37 (PSLV C-37 mis-sion) re-entered the earth's

atmosphere on Sunday. The PSLV-C37 mission was besinched on Pebruary 16, 2017, with Carsosat-2D as the main payload along with another 103 satellites as co-passengers, namely INS-IA, INS-IB, Al-Parabs I. ROLLA, INSE B, AlFaranti I, RIGUISAT, MIND-2, Nagif I, PRASS, Bi Flock-29 sarely street of the stree

ANNs capable of deep decayed, primarily due to atmospheric drag effects,"

ISBO said on Tuesday, Since September, ISBO System for Safe and Sus-tainable Space Operations Management (ISAOM reg-ularly monitored the orbi-tal decay as part of its regu-lar activities and predicted ere in the first week of the As per USSPACECOM prediction, the re-entry took place on Sunday at 18-49 LTC while IS4OM predicwould occur on Sunday at 15:48:25 UTC. The impact

The stimuspheric country.
The stimuspheric country
to stimuspheric country
compliant with the international debris mitigation
guidelines, in particular,
the guidelines of inter-Agency Space Debris Coordination Committee that recommends limiting the
pass emission arbital life of a defunct object in Low-Earth orbit to 28 years.

Machine learning pioneers win Physics Nobel

The 2024 Nobel Prize in Physics has been awarded to john Hopfield and Geoffrey Hinton "for founda-tional discoveries and in-ventions that enable wentions that enable machine learning with ar-tificial neural networks", the Royal Swedish Acade-my of Sciences announced

my of ficiences amountsed on Truesday.
Wittle many areas of recearch have used machinelearning (Mt.) models and
artificial neural networks
(ANNS) to process data,
these terms have entered
the bousehold, thanks to
the explosion of chat Alages, including ChatGPT.
The west of this year's laureates concerns the the-cretical foundations of ma-

.....

out humans teaching them and can use their knowledge to answer questions ANNs are collections of neurons, or more broadly nodes capable of process-ing data, connected in specific ways, in a recur-rent neural network, information can flow both ways Recurrent networks

Recurrent networks
Professor flopheld, of Princeton
The relies of a floopheld
The relies of a floopheld
the relievance of a group of
the state of a floopheld
the relievance of a group of
the state of a floopheld
the relievance of a group of
the state of a group of
the state of a floopheld
the st

ARRESTON

held network, among orb-ers.

He made a break-through in the 2000s by developing a learning algo-rithm for a modified ANN called a restricted Bottz-mann machine (R&M). A layer of neurons could be trained as an R&M and orbital and a strained as an example of the country of the machine, and the country of the ANNs carnaths of these

AND DESCRIPTION OF THE PERSONS ASSESSMENT

INDIA bloc -1, BJP - 1

The National Conference-Congress alliance has secured a majority in Jammu & Kashmir, while the BJP has retained power in Haryana



Jammu & Kashmir

	Seats	Vote share
NC+	49	37%
ВЈР	29	25.6%
JKPDP	3	9%
IND	7	17%
Others	2	12%

NC+: NC: 42 (23.4%) | INC: 6 (12%) | JKNPP: 0 (1.2%) |

CPI(M): 1 (0.6%)

Long wait: NC vice-president
Omar Abdullah celebrating
his party's victory at his
residence in Srinagar.
IMRAN NISSAR



Haryana

	Seats	Vote share
ВЈР	48	39.9%
INC+	37	39.3%
JJP+	0	1%
INLD+	2	6%
Others	3	13.8%

INC+: INC: 37 (39.1%)

CPI(M): 0 (0.2%)

JJP+: JJP: 0 (0.9%) | ASP: 0 (0.1%)

INLD+: INLD: 2 (4.1%) | BSP: 0

(1.8%)

New term: Haryana CM Nayab Singh Saini offers prayers after winning from Ladwa. PTI

PSLV C-37 rocket body re-enters the earth's atmosphere: ISRO

The Hindu Bureau

BENGALURU

The Indian Space Research Organisation (ISRO) said that the upper stage of the Polar Satellite Launch Vehicle C-37 (PSLV C-37 mission) re-entered the earth's atmosphere on Sunday.

The PSLV-C37 mission was launched on February 15, 2017, with Cartosat-2D as the main payload along with another 103 satellites as co-passengers, namely INS-1A, INS-1B, Al-Farabi 1, BGUSAT, DIDO-2, Nayif 1, PEASS, 88 Flock-3p satellites, and 8 Lemur-2 satellites. The space agency created history as it was the first mission to launch 104 satellites with a single vehicle. After injecting the satellites and passivation, the upper stage (PS4) was left at an orbit of approximately 470x494 km.

"It was regularly tracked by U.S. Space Command (USSPACECOM) as an object with NORAD id 42052. Its orbital altitude slowly decayed, primarily due to atmospheric drag effects," ISRO said on Tuesday.

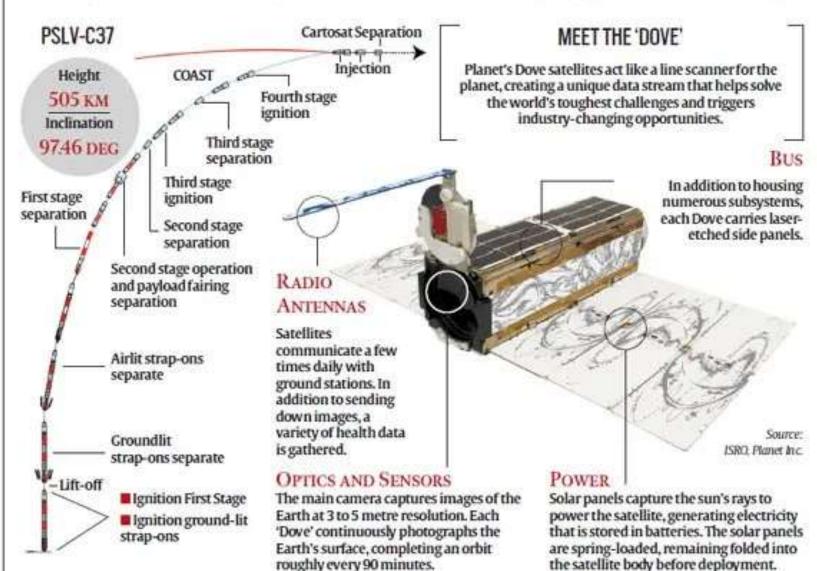
Since September, ISRO System for Safe and Sustainable Space Operations Management (IS4OM) regularly monitored the orbital decay as part of its regular activities and predicted re-entry into the atmosphere in the first week of October. "The orbit had decayed to a size of 134x148 km, as of October 6, 2024. As per USSPACECOM prediction, the re-entry took place on Sunday at 15:49 UTC while IS40M prediction showed that re-entry would occur on Sunday at 15:48:25 UTC. The impact point is in the North Atlantic Ocean," ISRO said.

Debris mitigation

The atmospheric re-entry of the rocket body is fully compliant with the international debris mitigation guidelines, in particular, the guideline of Inter-Agency Space Debris Coordination Committee that recommends limiting the post-mission orbital life of a defunct object in Low-Earth orbit to 25 years.

Record-breaking launch bid focussed on efficiency and costs

Carrying many satellites on a single mission does not involve a technological leap beyond the ability to engineer satellite slots on board



1 ROCKET, 104 PASSENGERS



VEHICLE

C37 is the 39th flight of the PSLV. It is the 16th flight of its XL version that can carry up to 1,750-kg payloads to a sunsynchronous orbit of 600 km altitude.

ROCKET STATS

Mass: 320 tonnes, payload mass: 1,378 kg

PRIMARY SATELLITE

Cartosat-2 series

OTHER SATELLITES

- ■Indian nanosatellites INS-1A and INS-1B
- 88 'Dove' satellites of Planet Inc., USA
- 8 LEMUR satellites of Spire Global Inc, USA
- PEASS satellite of The Netherlands
- DIDO-2 satellite of Switzerland BGUSat of Israel
- ■Al-Farabi-1 satellite of Kazakhstan Nayif-1 of UAE

- Re-entry of PSLV-C37 Rocket Body
- The upper stage of the Polar Satellite Launch Vehicle C-37 (PSLV C-37) reentered Earth's atmosphere on Sunday.
- The PSLV-C37 mission was initially launched on February 15, 2017, carrying Cartosat-2D as the primary payload and 103 other satellites.
- It set a record for launching 104 satellites with a single rocket.

Monitoring and Prediction

- The ISRO System for Safe and Sustainable Space Operations Management (IS4OM) had been monitoring the orbital decay since September 2024.
- The orbit reduced to a size of 134x148 km as of October 6, 2024.
- The re-entry was predicted to take place on October 6 at around 15:48:25 UTC, with the impact point in the North Atlantic Ocean.

1. Debris Mitigation

- 1. The re-entry complies with international debris mitigation guidelines, which recommend a post-mission orbital life of less than 25 years for objects in low-Earth orbit.
- 2. The upper stage's altitude decayed due to atmospheric drag.

- Which of the following statements is correct about the PSLV-C37 mission?
- 1. The mission was launched in 2024 and carried only one satellite.
- 2. The re-entry took place in the Indian Ocean.
- 3. The PSLV-C37 mission set a record by launching 104 satellites with a single rocket.
- 4. The orbital decay of the rocket body was not monitored.

Machine learning pioneers win Physics Nobel

Vasudevan Mukunth

CHENNAI

The 2024 Nobel Prize in Physics has been awarded to John Hopfield and Geoffrey Hinton "for foundational discoveries and inventions that enable machine learning with artificial neural networks", the Royal Swedish Academy of Sciences announced on Tuesday.

While many areas of research have used machine learning (ML) models and artificial neural networks (ANNs) to process data, these terms have entered the household, thanks to the explosion of chat AI apps, including ChatGPT.

The work of this year's laureates concerns the theoretical foundations of machines that can learn without humans teaching them and can use their knowledge to answer questions. ANNs are collections of neurons, or more broadly nodes capable of processing data, connected in specific ways. In a recurrent neural network, information can flow both ways.

Recurrent networks

Professor Hopfield, of Princeton University in the U.S., is credited with developing the Hopfield network, a type of recurrent neural network. Its neurons learn and process information based on Hebbian learning – an idea in neuropsychology that if one neuron repeatedly triggers a second, the connection between the two



Professor John Hopfield, left, and Professor Geoffrey Hinton. AP

becomes stronger.

The rules of a Hopfield network are based on the physics of a group of atoms, each producing its own small magnetic field. The processes the network performs to complete an incomplete pattern or to denoise an image are the same ones that, by analogy, would reduce the total energy of the magnetic atoms. "In his 1982 paper,

Hopfield asked a basic question about the ability of a large collection of simple neurons to form computational tasks as a spontaneous collective or emergent phenomenon," Spenta Wadia, founding director of the International Centre for Theoretical Sciences, Bengaluru, said.

"He analysed this in a model system which included biological ingredients. The paper laid the foundation of the use of statistical physics methods and ideas in neural circuit modelling."

Professor Hinton, of the University of Toronto, and his peers adapted another network called the Boltzmann machine to perform cognitive tasks, building on the principles of the Hopfield network, among others.

He made a breakthrough in the 2000s by developing a learning algorithm for a modified ANN called a restricted Boltzmann machine (RBM). A layer of neurons could be trained as an RBM and multiple layers could be stacked, creating the first ANNs capable of deep learning.

Godfather of AI who now warns of its risks shares physics Nobel

ohn J Hopfield and Geoffrey E Hinton were awarded the Nobel Prize in physics Tuesday for discoveries that helped computers learn more in the way the human brain does, providing the building blocks for developments in artificial intelligence.

The award is an acknowledgment of AI's growing
significance in the way people live and work. With its
ability to quickly make sense of vast amounts of data,
machine learning that uses
artificial neural networks already has a major role in scientific research, the Nobel
committee said, including in
physics, where it is used for
the creation of "new materials with specific properties".

The breakthroughs of Hopfield and Hinton "stand on the foundations of physical science", the committee said on the social platform X. "They have showed a completely new way for us to use

A WIN FOR MACHINE LEARNING

➤ Geoffrey Hinton, who works at Univ of Toronto, helped develop a technique in 80s known as backpropagation that was instrumental in training machines how to 'learn'



- > John Hopfield, professor emeritus at Princeton Univ, created an associative memory that can store and reconstruct images and other types of patterns in data
- ➤ Hinton's team used a neural network to win
 ImageNet computer vision competition in 2012. It spawned a
 flurry of copycats, giving birth to the rise of modern AI
- > He quit his job at Google last year to be able to more easily speak about the dangers of the technology he had pioneered

It's going to be wonderful in many respects. But we also have to worry about... possible bad consequences, particularly the threat of these things getting out of control — Geoffrey Hinton

computers to aid and to guide us to tackle many of the challenges our society face."

Journalists took turns asking Hinton, who has been called the 'godfather of AI', questions about his work, and he expressed worries over machine learning and said it would have an extraordinary influence on society. "It will be comparable with the Industrial Revolution," he said. "Instead of exceeding people in physical strength, it's going to exceed people in intellectual ability. We have no experience of what it's like to have things smarter than us." NYT

▶Turing Award, P 28

 The first Nobel Prize in Physics was awarded to German physicist Wilhelm Röntgen in recognition of the extraordinary services he rendered by the discovery of X-rays

Awarded for Outstanding contributions to

mankind in the field of physics

Location Stockholm, Sweden

Presented by Royal Swedish Academy of

Sciences

Reward(s) 11 million Swedish kronor

 $(2023)^{[1]}$

First awarded 1901

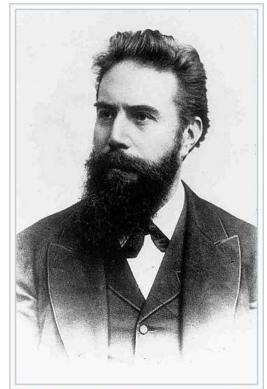
Last awarded 2024

Most recently John Hopfield and Geoffrey

awarded to Hinton

Most awards John Bardeen (2)





Wilhelm Röntgen (1845–1923), the first recipient of the Nobel Prize in Physics

Nobel Prize in Physics 2024

- John J. Hopfield and Geoffrey E. Hinton were awarded the Nobel Prize in Physics for their discoveries that contributed to AI and machine learning.
- Their work has enabled computers to learn in a way similar to the human brain.

Significance of Their Contributions

- Hopfield developed an associative memory model that helps store and reconstruct patterns in data.
- Hinton played a major role in developing the backpropagation technique in the 1980s, which is crucial for training AI systems.
- Hinton's team also won the ImageNet competition in 2012, boosting the development of modern AI.

Al's Growing Role and Potential Risks

- The Nobel committee acknowledged AI's impact on scientific research and daily life.
- While AI has significant benefits, Hinton, known as the "godfather of AI," has warned about the potential risks, especially if AI systems go out of control.
- He even left his job at Google to focus on discussing AI's dangers.

Future Implications

- The breakthroughs are expected to have an impact comparable to the Industrial Revolution.
- The Nobel committee highlighted that their discoveries stand on the foundations of physical science and offer new ways to tackle societal challenges.

- Which of the following statements is correct regarding the 2024 Nobel Prize in Physics?
- 1.Geoffrey E. Hinton and John J. Hopfield were awarded for their work in quantum mechanics.
- 2.John J. Hopfield created an associative memory model that helps in pattern recognition in data.
- 3. The prize recognized contributions specifically in the field of chemistry, focusing on AI's biological applications.
- 4.Geoffrey E. Hinton did not warn about any potential risks related to Al development.

India has eliminated trachoma, says WHO

Bindu Shajan Perappadas

The World Health Organi-gation (WHO) has now re-cognised that India has successfully eliminated tra-choms, a bucterial infec-tion that affects the eyes, as

a public health problem. In a citation shared by Satma Wasest, Regional Di-rector, WHO South-East rector, WHO South-East Asia, on Trueslay, the UN health bendy animoment recommender of the Comment rey in the Southeast Asia Region to reach this public health milestone. With health milestone. With late the Government of In-late the Government of In-tain an achieving the slimi-nation of trackoms as a characteristic of the dairy success in due to the atrong leadership of its Go-vernment and the commitwerement and the commu-ment of ophthalmologista and other cadres of health-care workers. They worked together with parmers to ensure effective surveil-lance, diagnosis and management of active trache-ma," Ms. Wazed said.

Accused in R.G. Kar rape and murder claims innocence

The chargesheet filed by the CBI on Monday lists II pieces of evidence against the kine accused in the case, including recovery of his DNA samples from the body of the murdered doctor

A day after the Cen-tral Bureau of In-vestigation (CBI) filed a chargesheet against him in the rope and mur-der of a doctor at the R.G. Kar Medical College and Hospital in Kolkata, the ac-used, Sanjay Roy, or Tuesday claimed inno

Tuesday claimed inno-cence believe a city count.

"I have conneiting to say. If I am not allowed to speak, all blaims will be put on me. I have not done anything. I am innocent. I don't know anything about the case," he told the court where he was produced.

The chargosheer filed by the CBI tast is pleces of evi-

the CBF lists it places of evi-dence against him, includ-ing recovery of his DNA sumples from the body of the victim.

Mr. Roy, a civic police welunteer, was arrested by the Kolkata Police, hours after the body of the doc-

far in southeast Asia. Apart from the traditional medi-cine centre, \$38 million is

being given for a new pre-mises for Witth's regional office, \$10 million for digi-

tal health, and \$4.6 million for thematic funding.

es, but those meeded by the organization for its core work, to deliver on its man-date to promote, provide and protect health and well-being for all," WHO's regional office said in a statement. It added that



The accused was arrested by the Kolkata police hours after the body was found in the commer room of the hospital, risk more

tor was found in the seminar room of the hospital.

The chargesheet contains charges of rape and marker against the accused under Sections 64, oc. 103(f) of the Bharatiye

Nyaya Samhita.

Necording to sources,
the CBI has brought charges against the accused
based an evidence, including CCTV footage where he is seen near the scene of earphone found near the scene of the crime.

The chargesheet also points that the DNA of Mr. points that the DNA of Mr. Roy was found on the body of the victim, while blood-stalts were found on his clothes and shoes. The 45-page chargesheet records statements of 128 witness-es and 90 sets of documen-

Bengal govt, sets up SIT to probe rape and murder of minor

The Hindu Buccau

The West Bengal govern-ment has constituted a Special Investigation Team GIT) to probe into the al-legest rape and murder of a nine-year-old girl at Jayna-gar in West Bengal.

The team will be under the Superintendent of Pol-

ice of Baralpur police district. Violence erupted at lay-Violence erupted at jay-nagar on Tuesday after pe-ople took out a procession with the body of the minor that was brought home on

Tuesday.
Villagers attacked a polics vehicle with several
personnel in it. The Sub-Divisional Police Officer
(SDPO) of Bartaipus
reached the area on receivreached the area of receiving information that stones had been pelted at a police vehicle, Angry villagers also beld protests around the SDPO.

Jaynagar in West Ben-gal's South 24 Parganas has been on the boil since Oc-

The Calcutta High Court questioned the lack of infrastructure at Central govt. hospitals

tober 4 after the alleged rape and number of the nine-year-old. Family members of the

Family members of the victim as well as villagers had alleged that they were made to run from pillar to post before a missing person complaint was filed. The villagers had attacked a police outpost on October 4 and set police motoricides on fire. cyles on fire. Meanwhile, the Calcutta

High Court has directed the Union Health Ministry to improve the infrastruc-ture of Central government

Mindfulness India Summit scheduled for Oct. 17-18

The Hindu Dureau

The third edition of the an-mual Mindfulness India Summit will be held in Mumbai on October 17 and 18. The summit all sionals with essential stra-tegles to create healthier, more empathetic work

Organised by the Mind-ful Schools Co. Organized by the Mind foll Science Centre and led by global mindfulness exp-ert Maniels Behl, the aum-mit will explore the topics of mindfulness, emotional intelligence, and neuros-cience, summerted by the cience. Supported by the Confederation of Indian to-dustry (CII) and with The Minds as media partner the summit will bring to gether over 30 internation al experts in these fields.

ture of Central government nongitals in the State. Roystock speakers in-tude removable the surepy of tude removable figures to the sure of the sure of

India makes pledge of \$300 million for WHO programme

Hindu Shaian Peroppadan NEW DELAN

todia, the sixth largest global contributor of core funding to the World funding to the World the alth Organisation (WHO), has now committed to give more than \$500 steems of the properties of the steems of the spent on the Gentre of Excellence in Teachtonal

Medicine.
So far, WHO has re-ceived contribution pledg-es for over \$2.2 billion towards a \$7.1 billion funding

gap. Over the next four Over the next fear-pears, WHO has the man-date to use these funds to save at least 40 million lives through various pro-grammes, such as increas-ing the number of vaccines delivered to priority countries, supporting 85 coun-tries in educating and em-ploying 3.2 million health workers, and prequalifying 400 health products per

India has committed the

Ahmedabad police probe GST fraud case: 5 held

The Hindu Bureau

Branch on Monday regis tered a first information re port against several per-sons and entities after getting a complaint from the Central GST authorities ogus input tax credit brough fraudulent

After this registration of the FIR, the Crime Branch, along with Gujarat's Eco-nomic Offences Wing, nomic Ciffenies Wing, searched 14 locations nerves the State, including in Ahmedathad, junagath, Sarat, Kheda, and Bhavna. Free people were arrest-ed, including The Hinde's Cupara carrespondent Ma-hosh Langa. Mr. Langar name is not

statement. B added that countries in WHO's South-East Asia Region and key partner expandations have in financing for the organi-ation's core programme of work from 2028 to 2028. committed to provide a pledge amount in the com-ing weeks, "WHO said, ad-ding that this investment events thus year, culminate veems thus year, culminate

mentioned in the PIR. A company where his family member is a partner has events this year, culminat-ing in a grand pledging ce-remony in November on the sidelines of the G-20 numenit in Brazil. been named in the com

Over 20 people are be-ing questioned in the case, a police officer said.

At film awards, Murmu calls for women-led development

R.G. Kar senior

doctors tender

As resident doctors continue their hunger strike across Kolketa, over 40 senior dactors of B.C. Kar Medical College and Hospetal, including professors and heads of departments, and a mass resignation.

signed a mass resignation letter on Tuesday in a show

letter on Tuesday in a show of support to agitating in-trial declores. The support of the feature of the support of the feature of the support of the possible government in war benjal, make amends and apologise,"

resignation

The Hindu Hureau

The Hindu Bureau

President Droupadi Mur-mu on Tuesday gave away the 70th National Pilin Awards to the winners in various categories. Veteran actor Mithun Chakraborty was benoured with the Da-dasabeb. Phalke: Lifetime

2022.
Speaking on the occa-sion, Ms. Murrou said only is of the #5 awardsea were women. She called for more efforts to ensure we men-led development in the film industry. "I believe that films and social media are a great tool to bring about a change in society,"

she said.
Information & Broad-casting Minister Ashwini Vaishnew, and Union Mi-nister of State L. Murugan

were present.

The best feature film award went to Auttom (The Play), a Malayalam film derected by Anand Ekarshi and Best Non-Peature Pilm to Ayena (Mirror), directed to Ayena (Mirror), directed by Siddhant Sarin. Itishah Shetty got the award for the best male acror in a leading role for the perfor-mance in Kantara (Kanna-



da). The award for the best fermale actor in a leading role went to Nithya Marien color with the second of the chirambalane Chamill and Manasi Parakht for Rateh Kapness (Caliparati). The heat director award went to the color of the color to the color of the color ward winners maintaind. Heat-matics Part Is this visit in the manal Efficient, Canning & da). The award for the best

sual Effects, Caming & Comic category, Kantara for Beat Popular Pilm Pro-viding Wholesome Enter-tainment, and Kirbere Ku-mar. The Ultimate mar: The Ultimate Biography for Best Book on

Action was also award-ed for being the best in Ed-iting (Mahesh Bhuvanend) category and for Screencategory and for Screen-play Canand Ekarabb joint-ly with Hissh illin Gadnu-fue (Aypita Matherjee and heat Charengraphy award went to Sadhish Erishnan for his work in Thirach-trambalana, Galenaker got the Reat Hindi Pilan award as well, while Pilah Jodin won the Best Costume De-signer award for Kutch

Express Award by Auto-Express.

A. R. Rahman got the Best Music Director (back-ground music) award for Mari Ratnam's Postnyin Seban-Part I (Tamil).

Rajnath, German counterpart discuss defence trade ties

Ahead of German Chancel for Olaf Schole's visit to In-dia later this month, Dedis later this month. De-fence Minister Rajnath Singh and his German counterpart Boris Fistorius discussed ways to further strengthen defence indus-trial collaboration and sup-ply chain resilience in a teephonic conversation on

ter-governmental consulta-tions, scheduled in the se-cond half of this month, come amid the muchcome amid the much-sewated decision on the qualifying hisls in the fa-dian Navy's multivalilion dollar dual for six conven-terman company TKMS (Thyserskrupp Merine Sys-tem) is competing with Navantia of Spain.

"They briefly evviewed

"They briefly reviewed the ongoing defence cuop-evation activities including exercises in the air and maritime domains. The Mi-niation docussed ways to further strengthen the de-fence inclustrial collabora-tion and enhance supply



chain resilience," a bitnis-try statement said on the

telephonic conversation.
The Navy's mega-sub-marine deal under Pro-ject-781, estimated up marine deal under Pro-ject-784, estimated up-wards of \$43,000 crore, has ernesed a major miles-tone with the completion of Field Evaluation Trials (PET) to check the com-pliance of the two bids re-

team visited the TKM8 shi-pyard in March for the FET, he evaluation of Navar tia's offer was conducted in the list week of June, as re-ported by The Hindu ear-lier. The staff evaluation is in progress, a defence offi cial said, without elaborar

THERES SWORD + 14301 per service in our recovered disc.

- That lady is shead of boy fissil, for example (4) Arowered about had act that may be copied (10)
- 10 Only Indian Canadian prime minister (6)
 11 Homan hat destroyed in long run (8)
 12 Provided shaller once again from violent herd crossing

- Surrounded by 10, deep interest this 185
- Couple touring Paris endlessly (4) Prohibit Juliat's lave for musical instrument (5) Some South African's robe is demaged (4) Governor consumed after stretch (6)
- Praise: "European Union record is extra ordinary at first" (6) 23 Risard maiden's ring and love note in shed (8)
 26 Half of Canada is able to dance (6)
 27 Furnity, Amir cuts in producing nail-cutter (10)
- 28 Looks East/ Correct: (4) Give income from manufacturing tree manure (10)
- A winged creature runs rist in slaughterhinste (8) Storage containers for awinning apparel (6) Wrong maps in unsoficited mail? (4) Covering tast battle, birr lot composed text for opera (8) Constat turned tap on, not off (0)
- Leading artist in Apache rodeo (4) 1.3 To nome extent, wooden seat is thick (s)
 1.5 Exeggerated and said, "Faithful first" (10)
 1.5 Cube, their mask front of Fagus tree (s)
 1.8 Blarter containing alsoholis drink with a pinch of To some extent, wooden seat is thick (%) Exaggirated and said, "Finished first" (10) Cube, then mash fruit of Fagus tree (8)
- 20 One gangster chief is a Greek god (6)
 22 Find officer returning with tea mis (9) 24 Food available in some almirahs (4) 25 Horrible ads cover one stage (4)

SUBDIDE





PARTH

Destroyer of anguish

In his Mukundamala, Kulasekara Azhvar calls upon his tongue, cars, eyes, legs, nose, head and mind to serve Lord Narayana. He urges his tongue to sing the proises of

The name Kesava has many meanings. Significantly, it means the who destroys lifetin (anguish). Yama, the one who cosmon namks, says: kinnyaya harchito destat kesh-avall kieshan Ashanali. Here he refers to Kesava as kilisa hakanali, the one who ges reld of kilisa.

Had the atmas who arrived at Yamaloks worshipped keava, would they be there, at the gates of hell? In giving a jevama a hody, the aim of the Lord is to help the atma eventually attain liberation, said Akkarakkani Scinidhi in a

discourse.

But we missue our lives in puresting impermanent things, and end up being reborn. When he was in his mother about Lord Naragona. Narada's words became etched in his mind, and illumyskastpu could not wrate througher of his Lord Iron Political with the result of the Lord Iron Political with the Political Control of the Lord Iron Political with the Political Control of the Lord Iron Political with the Political Control of the Politic

out in the Multumdamsala verse. Explaining a verse in Tondaradispoodi Azhvar's Thiru-manial, commentator Peria Vachan Pillat says that even as-suming we take many births and live for 160 years in each birth, our problems in all these lives put together is not equal to the ordeal of remaining in the cranped space of a commentation of the problems of the control of the con-trol of the control of the contro

India has eliminated trachoma, says WHO

Bindu Shajan Perappadan

NEW DELHI

The World Health Organization (WHO) has now recognised that India has successfully eliminated trachoma, a bacterial infection that affects the eyes, as a public health problem.

In a citation shared by Saima Wazed, Regional Director, WHO South-East Asia, on Tuesday, the UN health body announced that India is the third country in the Southeast Asia Region to reach this public health milestone. "With great pleasure, I congratulate the Government of India on achieving the elimination of trachoma as a public health problem. India's success is due to the strong leadership of its Government and the commitment of ophthalmologists and other cadres of healthcare workers. They worked together with partners to ensure effective surveillance, diagnosis and management of active trachoma," Ms. Wazed said.

Stages of trachoma



Infection caused by Chlamydia bacterium causes inflammation and thickens the upper eyelid



Scarring of the eyelid pulls the eyelashes into the eye



The eyelashes scratch the cornea and continue to infect and damage the eye, which can lead to blindness

TRACHOMA

Trachoma is the leading infectious cause of blindness worldwide: It is caused by infection with the bacterium Chlamydia trachomatis. Infection spreads through personal contact (via hands, clothes or bedding) and by flies that have been in contact with discharge from the eyes or nose of an infected person.

Stages of Trachoma



- Infection caused by Chlamydia bacterium causes inlammation and thickens the upper eyelid.
- Repeated infections lead to scarring of the eyelid. The scars often appear as white lines. which pulls the eyelashes into the eye.
- Eyelashes scratch the cornea and continue to infect and damage the eye which can lead to blindness.

Symptoms:

- Mild itching and irritation of the eyes and eyelids
- Mucus/Pus Discharge
- Eyelids swelling
- Light sensitive
- Eye pain

Risk Factors:

- Poverty (Trachoma is primarily a disease of extremely poor populations in developing countries).
- Poor sanitation
- Crowded living conditions

Neglected Tropical Diseases (NTDs)





Helminth NTDs:

Taeniasis/
Cysticercosis
Guinea worm disease
Echinococcosis
Foodborne
trematodiases
Lymphatic filariasis
Soil-transmitted
helminthiases
Schistosomiasis
Onchocerciasis



Protozoan NTDS:

Chagas Disease Leishmaniasis Human African Trypanosomiasis



Fungal NTDs:

Mycetoma, chromoblastomycosis and other deep **mycoses**



Viral NTDs:

Rabies Dengue & Chikungunya



Bacterial NTDS:

Buruli Ulcer Leprosy Trachoma Yaws



Non-infectious diseases or conditions

Snakebite envenoming



Ectoparasitic NTDS

Scabies and other ectoparasites

Mindfulness India Summit scheduled for Oct. 17-18

The Hindu Bureau

MUMBAI

The third edition of the annual Mindfulness India Summit will be held in Mumbai on October 17 and 18. The summit aims to equip leaders and professionals with essential strategies to create healthier, more empathetic work environments.

Organised by the Mindful Science Centre and led by global mindfulness expert Manish Behl, the summit will explore the topics of mindfulness, emotional intelligence, and neuroscience. Supported by the Confederation of Indian Industry (CII) and with *The Hindu* as media partner, the summit will bring together over 30 international experts in these fields.

Keynote speakers include renowned figures such as Sara Lazar and Chris Germer from Harvard Medical School, Emma Seppälä from Yale University, and U.K. politician Chris Ruane.

India makes pledge of \$300 million for WHO programme

Bindu Shajan Perappadan NEW DELHI

India, the sixth largest global contributor of core funding to the World Health Organisation (WHO), has now committed to give more than \$300 million for the organisation's core programme of work from 2025 to 2028. The biggest chunk of \$250 million will be spent on the Centre of Excellence for Traditional Medicine.

So far, WHO has received contribution pledges for over \$2.2 billion towards a \$7.1 billion funding gap.

Over the next four years, WHO has the mandate to use these funds to save at least 40 million lives through various programmes, such as increasing the number of vaccines delivered to priority countries, supporting 55 countries in educating and employing 3.2 million health workers, and prequalifying 400 health products per year.

India has committed the largest amount of funds so

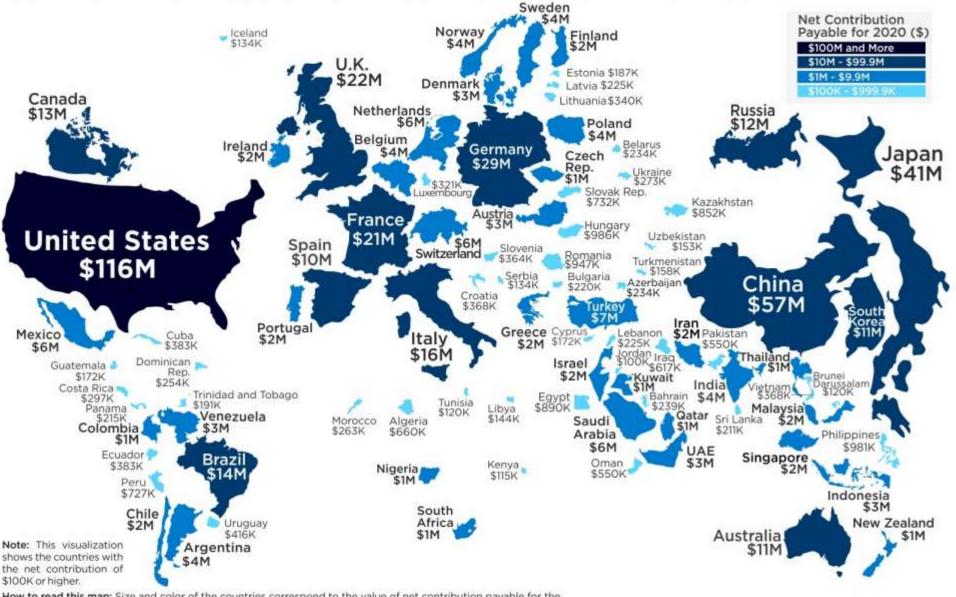
far in southeast Asia. Apart from the traditional medicine centre, \$38 million is being given for a new premises for WHO's regional office, \$10 million for digital health, and \$4.6 million for thematic funding.

'Health for all'

"The funds being sought are not additional resources, but those needed by the organisation for its core work, to deliver on its mandate to promote, provide and protect health and well-being for all," WHO's regional office said in a statement. It added that countries in WHO's South-East Asia Region and key partner organisations have pledged over \$345 million in financing for the organisation's core programme of work from 2025 to 2028.

"Indonesia and Bhutan committed to provide a pledge amount in the coming weeks," WHO said, adding that this investment round will see several events this year, culminating in a grand pledging ceremony in November on the sidelines of the G-20 summit in Brazil.

The World Health Organization (WHO) Contribution Net Contribution Payable by Member States & Associate Members



How to read this map: Size and color of the countries correspond to the value of net contribution payable for the year 2020. Countries appear bigger and darker as the value of net contribution is higher. E.g. United States.

Article & Sources

https://howmuch.net/articles/who-contribution World Health Organization - https://www.who.int/



- India's Pledge to WHO
- India has pledged over \$300 million to the World Health Organization (WHO) for its core programme from 2025 to 2028.
- The largest portion, \$250 million, will fund the Centre of Excellence for Traditional Medicine in Southeast Asia.

Funding Allocation

 Apart from the traditional medicine centre, \$38 million is for a new regional office, \$10 million for digital health, and \$4.6 million for thematic funding.

WHO's Funding Gap

• WHO has received pledges totaling \$2.2 billion against a funding gap of \$7.1 billion for its upcoming work programme.

1.Expected Impact

1. The funds aim to save at least 40 million lives, boost vaccine delivery, support 55 countries in training 3.2 million health workers, and prequalify 400 health products annually.

2.Global Support

- 1. Other countries, including Indonesia and Bhutan, are expected to contribute in the coming weeks.
- 2. A grand pledging ceremony will occur alongside the G-20 summit in Brazil.

- Which of the following statements is correct regarding India's contribution to the WHO?
- 1. The pledge is for \$300 million covering 2023-2026.
- 2. The majority of the funds will go to digital health initiatives.
- 3.WHO aims to use these funds to save at least 40 million lives over four years.
- 4. The pledging ceremony will take place in India.

VERNITANE

14

Myanmar to send representative to | Sri Lanka orders new investigation ASEAN for first time in three years



omar will send a Poreign Ministry official as its representative in ciation of Southeast Asian Nations (ASEAN) summer this week for the first time in three years, as the junts struggles to spell a civil war. ASEAN had barred Mysrymar's junts teaders from its

COLOMBO

into 2019 Easter Sunday bombings



firi Lanka's new government announced a probe on Tuesday onto the 2019 Easter bombings that hilled 279 people, saying that provious investigations had failed to identify other sulprite responsible for the country's worst-ever attack on civilians. There were multiple harvatives doing the recond after the attack. Are

MONCOW

Russia claims to have captured two more villages in eastern Ukraine



uccion forces have captured two more villages in eastern Utrathe the Defined Ministry said on Tunsiay, as Maccore's tracips continue their steady advance in the region and terescale Peterson. Sussian unto "steady advance in the region and terescale Peterson. Sussian unto "steady of the large and Zonte Ryes in the Bookstak region, the investity said in a statement, ern

DIESEA

Reforms before polls, says Yunus while refusing to give a time frame



hangladesh's roterim toacker Muhammad Yunus refused to give a proeframe for pods after the ocutor of his autocratic predaying in an interview that reforms are mended before polls. "If young, hold the election, we are ready to hold the election. But it

'Israel has taken out Nasrallah's successors'

Reuters

breeft forces have killed the would-be successors of late Heaboilah leader Say-

iate Hesibollah leader Kayeel Hassan Nasurallah, inpraeli Prime Minjater Benjanim Neturnyahu said,
"We have degraded Heabollah's capabilities. We
took out thousands of terorists, itscluding Nasurallah
replacement, and the replacement of the replacement," Me Netanyahu said,
Mr. Netanyahu said,
Mr. Netanyahu said dan

identify by name Plasral-lab's replacement that he claimed terms had killed. eived to be Nasrallah's po-

Israel expands invasion of Lebanon, Hezbollah warns of more rocket hits

Hezbollah's acting leader Naim Qassem vows to make it impossible for Israelis to return to villages in the north, while also threatening to displace even more residents; Netanyahu promises to fight a 'sacred war' until the militias are defeated

Agence France Fresse

ground offensive against itsebollah along Lebenon's southern coast on Tuesday, deploy-ing more troops and urging civilians near the Mediter-

ranean to evacuate.

The Iran-backed Hex-bollah said it had fired rockets at the braseli city of Halfa, after the Israeli mili-tary reported 85 projec-tiles crossing from

The latest escalation fol-lowed Prime Minister Benjamin Netanyahu's vow to fusht a "sacred war" until



Clean up: Residents in an apartment building in northern tan Riryat Yam damaged by a rocket fixed from Lebanon. Assista

Hexboliah and Hamas are

definated. Israel expanded opera-

While testing Hames in Gasa, Israel has vowed to secure its northern border with Lebanon to allow tens of thousands of tracels dis-placed by Hezbollah's cross-border fire to return

home.

Both Hamas and Hex-bollah have pledged no let-up against brasel, and on Tuesday Hesbollah's depu-sy chief Naim Quescen and the group would make it impossible for tracells to return to the north. He also said even more bracks will opened a front in support of its Palestinian ally, Ha-mas, following the dea-dliest attack in its history on October 7, 2023. be displaced as the militant group extends its rocket fire desper into breel.

Mr. Kassem, the acting leader of Hezbollah, said

is military capabilities are still inhet and that it has continuously and that it has communities after weeks of heavy teraeli airatrikes across large parts of Leba-non, including targeted its top command. He also said leraeli forces have not been able to advance after bamelting a ground beam continuously and the said weeks.

week.
Israel launched a wave
of strikes against Hosbollah strongholds in Labanon on September 23, leaving at least 1,110 people
dead stoce then and forcweek. ing more than a million to

No negotiation with Russia without Ukraine, says Harris

Sriram Lakshman

Vice-President Kamala Harris said she would not. Laterally with Vladimir Position and Laterally with Vladimir Position without Ukraine pre-train without Ukraine pre-trained without Ukraine pre-trained. The lateral without CIS on minutes. This is the second in without the lateral without for the second minutes. This is the second in without the second candidate, who is engaged in a limited than a month from the Newmitter's election.

"There will be no auc-cess in ending that war-without Ukraine and the UN Chartne participating in what that success books like," Mr. Harris into Bill Whitaket, the host of 20

finutes. She said that if her rival, Republican candidate De-nald Trump, were currently the President, Mr. Putin would be "sitting in Rylw". Asked if she would sup-

port an expansion of the North Adantic Treaty Or-ganization (NATO) to in-clude Ukraine, she said it would be decided "if and when" that point was reached.

reached.

Having surprising many last month by declaring she was a gun owner. Me Harris, on Mending provided more details, revealing that the gun she owned was a gleed, a semi-nationatic pistol.

"You, of course I have," she tail, Junghing, when alled if she had ever freed

"...At a firing range," she udded. Ms. Harris linked owning a gun to having worked in law enforce-ment. In an interview last



frey, Mr. Harris anyone breaking into her house would get shor. The Vice-President, who sup-

Vice-President, who sup-ports an assault weapon-but, has been trying to reads out to moderates and Republicans, who are more lawkids on gun rights.

Ms. Harris side-stepped a question on whether the LLs, despit giving billions in aid to Israel, had any sowny even bresil Frime Minister Benjamin Netanyahu. "We are not going to

stop pursuing what is ne-cessary for the United States to be clear about where we stand on the need for this war to end," she said.

she said.
On the question of whether Mr. Netanyahus could be considered a close ally, she said the question was whether the American people and inculo people in the said lines, which she said they did.

did.
Defending her shifts in position - mich as becom-ing more in favour of clamping down on illegal immigration - Ms. Harris suggested she had changed her position after canvass-

Don't want to be part of anyone's political agenda: Argentina

Kallol Bhattacherice

Armentina is not willing to Argontina is not willing to be a part of BRICEs as it shows not want to be part of any political agenda, visit-many political agenda, visit-ty of the part of the part of Mondition said bers on Mondition said bers on Pipeaday. In an interaction organised by the Observer (ORE), Mr. Mondition called BRICES a "very goost deta-but said that Argentina is not willing to be a meanter "We don't want to be "We don't want to be

of the outil.

"We don't want to be burdened by whatever pol-itics anybody has," Mss Mondine said elaborating on Argentina's position on BRICS. Argentina's Presi-dent layer Milet had written to BRICS member countries in December 2023 rejecting the plan to join the outfit.

join the outh:
During the BRICS sum
mit of August 2023 in Jo-hamesberg. Argentina
had joined Saudi Arabia,
tran, UAR, Ethiopia and
ligypt in becoming members of the expanded BRICS, However, the South American country's posi-tion changed after juvier Milet won the presidential election in November.

Visiting Foreign Minister gives explanation for staving away from the BRICS grouping

While appreciating the economic and commercial scope of BRES, Ms. Mondino remained non-committal about the overall profile of the grouping.

Talks with Joislanthar the met External Affairs Minister Dr. 8, Jaishankar on Tuesslay and the two led Argeotine and Indian delegates during the 7° In-dia-Argonitan Joint Com-mission Meeting GCM. "Concluded a produc-

"Goncluded a produc-tive and wide-runging 7" India-Argentina ICM along with Foreign Minister Dia-na Mondine today in New Dellat. Took stock of our bi-lateral too including in trade, space, nuclear, rul-ways, authorities. Behavi ways, agriculture, Reher-tes, health, AYUSH, peo-ple-to-people and defence ties. Also exchanged views on regional and global te-sues and our cooperation in roubilateral fora," Dr. Inishankar said after the



Surviving scarcity



A drone view shows goats eating from a pile of discarded vagatables delivered by an NGO in Chile to farm animals in water scarce areas, at 'El Martel' sure, an the establish of Santiage, excitos.

New book says Trump spoke to Putin 7 times since leaving office

many as seven private phone calls with Vladimir Putin since leaving office and secretly sent the Rus-sian president COVID-19 test machines during the height of the pandemic, Bob Woodward reported in

his new book, War. The revelations were made in the famed Watermade in the famed Water gate reporter's latest book, which also details Presi-dent Joe Biden's frustra-tions with brasil Prime Mi-

tions with brasil Prime Mi-nister Resignation. Netanyshu and Saudi Crown Princs Mohammed bin Salman's assortanced of burner phones. Steven Cleaning, Mr Trump's communications director, denied the ac-counts in the book. "Some of these made up Mories by Bob Woodward are true and are the work of a truly demented and devanged man who suffers from a de-

billisting case of Trump Derangement Syndrome," Mr. Cheung said in a statement.
Mr. Woodward reports

that Mr. Trump asked an aide to leave his office at his Florida resort, Mara-Lago, so that the former President could have a private call with Mr. Putin in early 2024. The aide, in usely 2024. The side, whom Mr. Woodward does not name, said there have ween mr. Trump and Mr. Putin since Trump and Mr. Putin since Trump and Mr. Putin since Trump left of fice, perhaps an many as coreding to the beack.

Mr. Trump's relationable, with Mr. Putin has good to be beached.

2016 campaign for Problem, when the them-eaned, there the them-eaned, there memorally called on

Bussis to find and make public missing emails de-leted by Hillary Clinton, his Democratic apponent.
"Russia, if you are listen-ing, I hope you are able to find the 30,000 emails that



Puttin COVID-18 testing litts during the pandemis. FLE PHISTO.

are missing," he said.
1.23. intelligence agenties tates determined that
Russia had meddled in the
Trump, though an investigation by special coursel
Robert Mueller found no
conspiracy between the
Trump team and Russia. In 2018, Mr. Trump publicly questioned that finding folquestioned that finding fol-lowing an in-person meet-ing with Mr. Purin in Helsinki.

support for Chraine as it fights off Kussia's invasion. He has said Ultraine should have made concessions to Mr. Putti before Russia in-vaded in 2022. He also pre-viously tosted his good re-busy tosted his good revicusly tosted his good re-lationship with Mr. Putin and called the Russion to the Committee of the troubley Utraine. Mr. Woodward also re-ports that Mr. Trump sent Mr. Futin 150VIT-91 test machines for his periodonal use at the virus began spreading in 2020.

In recent years, Mr. Trump has criticised U.S.

The book does not spec-ify when the machines were sent but describes it as being when the virus spread rapidly through Russia. It was previously reported that Trump's ad-ministration in May 2020 sent ventilators and other

equipment to several coun

equipment to several countries, including Russia.

One of Mr. Trump's languate erra allien, south Carlotte, and the Carlotte, and circle of the Carlotte, and the Carlotte, an

Graham was with Mr. Trump at Mara-Lago, which the senator characterised as "a little bit like going to North Korea." Mr. Uraham added that "every-body stunds up and claps

momenta when the President has been fed up with him over the Gaza war.

Mr. Biden's "frustrations and district" of Mr. Neta-nyalus "erupted" this pass spring, Mr. Woodward writes. The President priv wittes. The President privately unleashed a primitive lader trade, calling him a "out of a blish" and a "bad I——guy," according to the book. Mr. Riden said he felt, in Mr. Woodwards accounting, that Mr. Netanyaltu "had been lying to Neuropoliu. "Red been lying to Neuropoliu." one he was going to kill every last member of Hamile Woodward wrote, "Biden had told him that was impossible, threatening both privately and publicly to withhold offen-U.S.

New book says Trump spoke to Putin 7 times since leaving office

Associated Press

WASHINGTON DC

Donald Trump has had as many as seven private phone calls with Vladimir Putin since leaving office and secretly sent the Russian president COVID-19 test machines during the height of the pandemic, Bob Woodward reported in his new book, War.

The revelations were made in the famed Water-gate reporter's latest book, which also details President Joe Biden's frustrations with Israeli Prime Minister Benjamin Netanyahu and Saudi Crown Prince Mohammed bin Salman's assortment of burner phones.

Steven Cheung, Mr. Trump's communications director, denied the accounts in the book. "None of these made up stories by Bob Woodward are true and are the work of a truly demented and deranged man who suffers from a de-

_

bilitating case of Trump Derangement Syndrome," Mr. Cheung said in a statement.

Mr. Woodward reports that Mr. Trump asked an aide to leave his office at his Florida resort, Mar-a-Lago, so that the former President could have a private call with Mr. Putin in early 2024. The aide, whom Mr. Woodward does not name, said there have been multiple calls between Mr. Trump and Mr. Putin since Trump left office, perhaps as many as seven in that period, according to the book.

Mr. Trump's relationship with Mr. Putin has been scrutinised since his 2016 campaign for President, when the then-candidate memorably called on Russia to find and make public missing emails deleted by Hillary Clinton, his Democratic opponent. "Russia, if you are listening, I hope you are able to find the 30,000 emails that



Bob Woodward reveals in his book Donald Trump sent Vladimir Putin COVID-19 testing kits during the pandemic. FILE PHOTO

are missing," he said.

U.S. intelligence agencies later determined that Russia had meddled in the 2016 election to help Mr. Trump, though an investigation by special counsel Robert Mueller found no conspiracy between the Trump team and Russia. In 2018, Mr. Trump publicly questioned that finding following an in-person meeting with Mr. Putin in Helsinki.

In recent years, Mr. Trump has criticised U.S. support for Ukraine as it fights off Russia's invasion. He has said Ukraine should have made concessions to Mr. Putin before Russia invaded in 2022. He also previously touted his good relationship with Mr. Putin and called the Russian leader "pretty smart" for invading Ukraine.

Mr. Woodward also reports that Mr. Trump sent Mr. Putin COVID-19 test machines for his personal use as the virus began spreading in 2020.

The book does not specify when the machines were sent but describes it as being when the virus spread rapidly through Russia. It was previously reported that Trump's administration in May 2020 sent ventilators and other equipment to several countries, including Russia.

One of Mr. Trump's longest-term allies, South Carolina Sen. Lindsey Graham, blamed Mr. Trump's ongoing false claims that the 2020 election was rigged to a cult of personality in which the former President's ensconcement at Mar-a-Lago and circle of aides and advisers "constantly feed this narrative," according to the book.

The weekend after Russia invaded Ukraine, Ms. Graham was with Mr. Trump at Mar-a-Lago, which the senator characterised as "a little bit like going to North Korea." Ms. Graham added that "everybody stands up and claps

every time Trump comes in."

The book also details Mr. Biden's complicated relationship with Mr. Netanyahu as well as private moments when the President has been fed up with him over the Gaza war.

Mr. Biden's "frustrations and distrust" of Mr. Netanyahu "erupted" this past spring, Mr. Woodward writes. The President privately unleashed a profanity-laden tirade, calling him a "son of a bitch" and a "bad f--- guy," according to the book. Mr. Biden said he felt, in Mr. Woodward's accounting, that Mr. Netanyahu "had been lying to him regularly." With Mr. Netanyahu "continuing to say he was going to kill every last member of Hamas." Mr. Woodward wrote, "Biden had told him that was impossible, threatening both privately and publicly to withhold offen-U.S. sive weapons shipment."

Revelations in Bob Woodward's Book:

- Bob Woodward's latest book "War" reveals that Donald Trump has had seven private phone calls with Vladimir Putin since leaving office.
- The book also details how Trump secretly sent COVID-19 test machines to Russia during the height of the pandemic.

Details of the Conversations:

- Trump reportedly asked an aide to leave his Mar-a-Lago office to make a private call with Putin in early 2024.
- The book indicates these calls occurred amid Russia's ongoing war in Ukraine, with Trump suggesting that Ukraine should have made concessions to Putin.

Political Controversies:

- Trump's relationship with Putin has been under scrutiny since his 2016 campaign, especially after Russian interference allegations in the U.S. elections.
- The book also discusses Trump's alleged comments regarding the 2020 election being rigged, and his frustration with various leaders.

1.Reactions and Criticism:

- 1. Steven Cheung, Trump's communications director, dismissed Woodward's claims as "made-up stories."
- 2. The book also depicts frustrations of President Joe Biden with Israeli Prime Minister Benjamin Netanyahu over the Gaza conflict.

in machine learning

FE BEST BANKS AWARDS

Indian regulators doing 'world-class job': FM

Balance between over- and under-lending creates "Best Banks"

PRIVATE HIPMALS

FINAL CREATER HIPMALS

strong before an inclusive mental and the control of the

afterpation applies field statement of the control of the control



ster Nirryala Sitharaman and the Indian Express Group's executive director Anant Coemia with the winners of the PE Best Banka Awards in Humbai on Tuesday

NON-FOOD OPEDIT WHICH GREW 15-16% IN 2023-24, HAS SUSTAINED THAT RATE IN JAN-JULY THIS YEAR AS WELL

MO THE WOOD IN THE KO

WITH A BULLION BANK ACCOUNTS, A BILLION MOBILES & A BILLION DIGITAL IDENTITIES, DEVELOPMENT CAN TRULY BE DEMOCRATISED

CREADEBASKETS DON'T SEEM TO HAVE MUCH OF A COMMONNESS... CPI INCLUDES SOME ITEMS WITH NO CONTEMPORARY VALUE

O Problem MERCEPTE

यूनियन बैंक 🕼 Union Bank





SEBI MANDATES DUE DILIGENCE FOR AIFS TO CURB MISUSE

HYUNDAI IPO NEXT WEEK; PRICE LIKELY AT ₹1,865-1,960

HYLPHOM FICTOR
INDOAS IND will open
read veries for sind owill
thely be principl at \$2.86-1, Will
both share, sources said on

DEXPLAINER Why SCO remains relevant for India

BJP retains Haryana for historic third term

National Conference steers INDIA bloc to victory in J&K polls

HANOI C G & LIZ HATHEW Hew Delhi, Detailer B

PA-WEEK to bring time in getfilm, a day-cut-ing the property of the property of the pro-cess of the property of the property of the pro-cess of the property of the property of the pro-tored further at the property of the pro-tored further at the property of the pro-tored the property of the pro-tored the property of the pro-tored protoners of the protoners of the pro-tored protoners of the protoners of the pro-toners of the protoners of the protoners of the pro-toners of the protoners of the pro-toners of the protoners of the protoners of the pro-toners of the protoners of the pro-toners of the protoners of the protoners of the pro-toners of the protoners of the protoners of the pro-toners of the protoners of the protoners of the pro-toners of the protoners of the protoners of the protoners of the pro-toners of the protoners of the pro-toners of the protoners of the protoners of the protoners of the pro-toners of the protoners of the protoners of the protoners of the pro-toners of the protoners of the protoner

ting that the Centur dathed crods for entering that the elevisions were held and asslocked UT Assumbly was in place — in powers severely limited — for the flest time slace
the state was upit and its special states above

The Congress hoped a suggestive focus on ca shoped have alreing themed the continued on Page 7

MAHA CONTEST AHEAD HARYANA 48 37 2 3 JAMHU & KASHMIR HAJORETY ... 90 42+6 29 3 10

HAREHORA HODE, PROVE PRIVATER "ONCE THE PEOPLE THROW OUT THE CONGRESS, THEY DO NOT LET IT COHE BLOCK THEY PUT NO BOTT HE FOR CONGRESS. IT IS A PARTY THAT ALWAYS THOUGHT POWER WAS ITS BIRTHRIGHT."

GIC weighs \$5-bn Greenko sale

DIC 14 CONSIDERING options for its SCON state in India's Crearks livergy Indializing, including a provider self-that could be worth around 55 bit-ion, people familiar with the

shoate a full or partial nale of its felling in Creenles, the people said, king not to be identified because atter is private. A deal-could

GREEN ENERGY BET

Primportive investors include infranjenituse fucused funds, accounting seconds funds and other energy companies. The prophy and Consulerations are preliminary and CSC may

including Alex Disabl transferrant Authority, known an ADIA, and Ingentions firancial group Grits, any alan needs to subject transit in the conting months to the light structure. A representative for GIC deckings to commonst. When a sheet about GIC's plans, Commonstable information continuous ADIA and Commonstable information continuous Commonstable information continuous Commonstable information continuous and the commonstable information on the continuous ADIA and the continuous an

femilies storage brelects. - errocoenseso



Moser Challes

US okays sale of torpedoes worth \$175m to India

TIMES NEWS NETWORK

New Delhi: The United States govt has approved a proposed sale of 53 MK-54 lightweight torpedoes worth \$175 million to India for the multi-mission MH-60R Seahawk helicopters being inducted by the Indian Navy.

The Biden administration's notification to the US Congress on Monday said the sale will support Washington's foreign policy and national security objectives by helping to strengthen the bilateral strategic relationship and improving the security of major defence partner India, which "continues to be an important force for political stability, peace, and economic progress in the Indo-Pacific and South Asia regions".

"The proposed sale will improve India's capability to meet current and future threats by increasing the size of its anti-submarine weapons stockpile for its MH-60R heliconters "it said



Navy officers said the induction of Seahawks (in pic) represents a 'significant capability jump' in detecting and destroying enemy submarines prowling in the IOR

India & Germany discuss boosting def-industrial ties

India and Germany Tuesday discussed measures to further strengthen their defence-industrial collaboration and enhance supply chain resilience.

The two sides reviewed ongoing bilateral defence cooperation activities

SOUTH ASIA LEGIOUS .

"The proposed sale will improve India's capability to meet current and future threats by increasing the size of its anti-submarine weapons stockpile for its MH-60R helicopters," it said.

The Navy in March had commissioned its first squadron of six submarine-hunting MH-60R Seahawk helicopters, armed with Hellfire missiles, MK-54 torpedoes, and precision-kill rockets, at INS Garuda in Kochi, as was then reported by **TOI**.

By next year, India is slated to induct all the 24 heavyduty Seahawks, which are also equipped with multi-mode radars and night-vision devices, under the Rs 15,157 crore (\$2.13 billion) contract inked with the US in Feb 2020.

Navy officers say the induction of Seahawks, which operate from decks of aircraft carriers and other frontline warships, represents a "significant capability jump" in detecting and destroying enemy submarines prowling in the Indian Ocean Region.

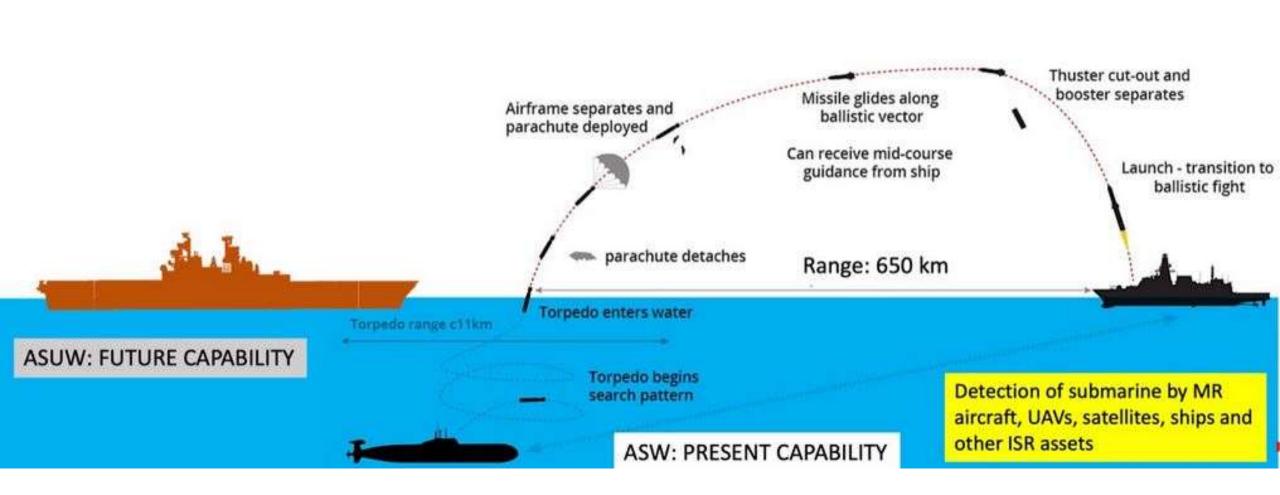
further strengthen their defence-industrial collaboration and enhance supply chain resilience.

The two sides reviewed ongoing bilateral defence cooperation activities, including exercises in the air and maritime domains, during a telephonic conversation between defence minister Rajnath Singh and his German counterpart Boris Pistorius.

"The two ministers planned to meet in the near future to give concrete shape to the defence engagements and joint projects," an official said.

As part of its overall policy to bolster defence-strategic cooperation, Germany has speeded up clearances and simplified the licensing regime for military sales to India, which include lifting restrictions on the sale of small arms and their spare parts. Germany is keen to step up ties with India in areas ranging from arms sales and joint production of advanced military hardware like submarines to military interoperability in Indo-Pacific. TNN

Supersonic Missile Assisted Release of Torpedo (SMART) CONOPS



Hypersonic travel to take off in 2025

A hypersonic jet capable of flying from London to New York in just one hour, compared to the current 7-8 hour flight, is set for its first test flight in 2025. Developed by Venus Aerospace, the jet will reach speeds of up to Mach 6 (3,600mph/5,795km/h), six times the speed of sound. According to reports, the project is powered by the Venus Detonation Ramjet 2000 lb Thrust Engine (VDR2), designed to achieve hypersonic flight.

In partnership with aerospace company Velontra, Venus Aerospace plans to revolutionise air travel by using conventional jet engines for takeoff before switching to rocket propulsion at higher altitudes. Passengers will witness views of Earth's curvature, although the jet won't technically reach space.

For Indian travellers, this technology could transform long-haul flights, making international trips to the UK or US as swift as a domestic journey – potentially putting jet lag to rest! Agencies



Modi to hold talks with leaders at meet HEWE I PAGE A





COUNTRY'S LABORST Hyundai unveils IPO of ₹27.870 crore

Transform the workplace into supportive space Success must not be tied to brutal work culture



Root overhauls Cook's tally of Test runs

RESERVED BY



Samsung protesti Opposition slams T.N. government

CHENNAL

Opposition leaders on Wednesday criticised the OMM government after the familiemployees of the Samoung Sectronics facility who have one on strike demanding recognition of their newly funned uctors is PAGE 2



CCS clears deals for MO-9B drones and submarines

The Cabinet Committee on Security on Westvesday approved two high-profile deals for the precitage of 31 MQ-96 High Althode Long Vehicles from General Atomics of the U.S. and indigenous construction of two nuclear attack submarries. In PART .

Karnataka HC acquits 3 in 2012

DESCALUDI

The Karnetaka High Court on Wednesday assumed three persons, including a Pakistan national, from the charges of national, from the charges of indulging in unlawful activities in the 2012 terror conspiracy case, etting a procedural flaw in the sametion for presectaling granted by the Biate. In passes

3 killed as police, protesters clash in Pakistan

PROBLEMAN

All load three people were billed in clashes on Wechesda between Palestani police and supporters of a rights group advocating for the Pasistun etims minority, argured by a government ban imposed on the conscipation the own. he organisation this week, scal officials said a PAGE to



Elon Musk's X is restored in Brazil after suspension

BIO DE JANKINO

HIG DE JANKINE Inferred war predident began metaning access to the corral metal platform X in threat on Wednesday after in remained inaccessible for the platform of the platform court as make a

Leaders race to form govts. in J&K, Haryana

Hectic political activities begin: BJP, which received additional support from three Independents, likely to form government in Haryana after October 12: NC-Congress alliance likely to declare J&Kx next CM in two days, NC legislature party meeting today. Omar says first business of new Cabinet must be to pass resolution on restoration of Statebood

day after the As-sembly election re-mounced, the leaders of the winning parties — the hijl's in Haryana and the Na-donal Conference Con-gress althance in Janum and Rashmir — were en-goged in hertie political activity.

nviry. Several BB leaders from Haryana, including incument Chief Minister Navab lingh Saint who is Blady to etain his position, headed to New Delhi to meet Prime Minister Navendra Modi and other top leadry. The new grove ers. The new government is expected to take charge after October 12, once the Dusara festival is over. of the National Conference (NC) and the Congress began the spanlework to form the first elected government in Jammu and Kashnir in more than six years. They plan to amounce their new Chief Minister in the next two days.

The RIF got a further issues in taryana, with all three Independents and three Independents and the conference of t

nouncing their support to the party, effectively taking the suffron party's seat tal-ly in the Assembly to SI. As by in the Assembly to St. As-lobbying began for mini-tertal berths in the new go-vernment, reveral legisla-tors of the ruling perty and senior basdees from the State made a beeline to Delhi to meet the BP's cenource said.
The RIP is also consider-



Feroog Abdullah and Omar Abdullah in Srinagar a day after the election victory in JAN, Amit Shah congratulates incumbent Haryana CM Nayab Singh Seint, in Bolhi on Wednesday, assus sisses, mi

ing two Deputy Chief Mi-nisters, as was done in Rajasthan and Madhya Pra-

desh, the source added.

"In Haryana, the tipl government got a clear mandate in the 2024 Assembly polls and for the third time, people have voted to furnithe double engine go.

we (State unit leaders) came to meet the national leaders, the meeting was leaders, the meeting was already fixed. There were no discussions on any oth-er issues," Haryana RIP president Mohan Lai Bado-it told presepersons in the national capital.

lenow"
In Brinagar, J&R Pradesh
Congress Committee president Tariq Karra visited
the house of NC president
Faroq Abdullah and vice
president Omar Abdullah.

The first business of the ter, he said: "After Dasara, whatever the party de-cides, we will let you

new Cabinet must be to pass a resolution demanding the restoration of Statelood for JRK, Mr. Abdullah said. "We will at the same time keep the conversation alive on Article 170. We are not going to fool the people by promising semething

partners, a governance model will be decided," he

"We visited fir. Abshillsh and Cinnar and congratulation of Cinnar and congratulation of the Cinnar and Cinnar

we control deliver immediately. The said, adding that the Nt has low expec-tations for the restoration of Article 270 by the cur-rent BP government at the gime change in New Delh and a serious engagement on restoring Article 270; he said, Mr. Articulah said the new government development of the deli-tropic properties of the con-trol of the control of the con-trol of the co der represented regions, particularly tamma, where his party has fewer elected

Meanwhile, J&K Lieute was "our guiding light" and urged all to "work ingether for the growth of J&K and the welfure of people".

Garba night



RBI holds rate at 6.5%, opens door for cut

Lalatendu Mishra

The Reserve Bank of India its benchmark interest rate at 6.5% for the 10th succesat 6.5% for the 10th successive monetary polley re-view since April 2023, but opened the door for a rate cat in the mear future by shifting its polley stance to "noutral".

"neutral".
The status que on interest rates was approved by
five out of six members of
the Monetary Policy Commities which met for three
thays starting October 7.
The change of the pedicy
stance from "will drawn
of accommodation" to
"neutral" was unanimuseto accommodation.

y agreed upon by the com

Ratan Tata, a titan of Indian industry, + takes his final bow

The Hindu Bureau

futa Group's chairman emeritus and veteran indostrialist Ratan Naval Fa-to passed away at the Breach Candy Hospital in

Heach Candy Hospital In Minmbal Inte on Wednes-day evening. He was 80.

"It is with deep across "It is with deep across properties of the properties of the peaceful positing of our be-lowed Ratana." his family said in a statement.

"We his brothers, sls-"We his brothers, sls-ing the peaceful of the peaceful and constort in susponiring of loses and respect from all who admirred him. While he is no longer with us in the is no longer with us in pose will continue to in-spite future generations," on the peaceful of the peaceful on survived by his younger. survived by his younger brothers Jimmy and Noel and stepmother Simone.

and stepshother simone. Prime Minister Naren-dra Modi paid vich tributes to Mr. Tata, describing him as a visismary humbuss leader and an extraordin-ary human being. "One of the most unique aquects of Shri Batan Tata Ji was his passion towards desaming ring.
For example, John Goodenough shared the 2010 chemistry prize for his work on lithium-ion batterpassion towards dreaming big and giving back. He was at the forefront of cham-pioning causes like educa-tion, healthcare, saniu-tion, animal welfere to name a few," he said on N

In a statement, Tara Sons Chairman N. Chandrasekaran said, "It is with a profound sense of loss that we bid farewell to Mr. Ratan Naval Tuta, a truly incommon leader whose immeasurable contribu-tions have shaped not only the Tata Group but also the

the Tata Group but also the very fabric of our nation." The Congress constoled the death, with Leader of the Opposition in the Lok Sabba Bahul Gandhi saying Mr. Tata was a man with a vision who had left a lost-ing mark on both business and philanthrupy.

2012, when he handed over the baton to Cyrus Mis-try. Following Mr. Mistry's ouster in 2016, he again as-sumed the position of inte-rim chairman. He handed over the reins to Mr. Chandrasekaran, who was ap-pointed chairman of Tata Sons in February 201

Though Mr. Tata had re-tired, he had a firm grip on the group as well as Tata Trusts, which owns over 67% stake in Tata Sons, the holding company. It was J.R.D. Tata who

ntes. Mr. Tata cased them out by the end 1990s. Then he focused on putting the house in order and subsequently went global with the acquisition of Tetley, ia guar, Land Rover, and Co

It was he who made the Tata an international com-pany and enhanced the

pany and embanced the seature of the groups. He was politic to talk to but tough while dealing with issues and his opponents. Fors-entirement, he mu-tured dowers of start-ups and invested in them through his company RNT Associates.

Baker, Jumper, Hassabis share Nobel in Chemistry for tools to design proteins and predict structures

The 2024 Nobel Prize for Discribitry was shared by David Baker "for computaand John Jumper "for pro-etn structure prediction," he Royal Swedish Academy of ficiences announced in Wednesday.

Heiner Links, chair of Chemistry, said the award honoured research that is innected the sequence of amino acids that make up a protein and the protein's

Mr. Buker led a team that in 2003 designed a new protein using bespoke software methods. They and others have since re-fined these methods to be able to point the way to

quettic

applications.
Johan Applet, a former
chair of the chemistry No-bel Committee, called the be "absolutely mind-blow-ing" and that "it seems that you can almost construct any type of protein with this technology". Mr. Hassabis and Mr.

humper received the other half of the prize for their hand in developing an ar-tificial intelligence model called Alphabold 2 that could predict the struc-tures of millions of protellis.

Human scientists had done that for only around 1.7 lakh proteins until then, although the structures and patterns therein were used to train AlphaFold.

Demis Hassabis and John Jumper managed to crack Jumper managed to crack the ends, With shiffful use of artificial intelligence, they made it possible to predict the complex struc-ture of easentially any known protein in nature.¹ Mr. Larde said.

The Nobel Prize for Mr. Hansablis and Mr. Jumper

Unusual pattern There is usually a gap of a few decades between the work and the prize be-cause the farmer does not immediately prive to be of "greatest honelli to human

ies in 1970s.
John Nesh, Jr. won part
of the Nobel Memorial
Prise in Economic Science
on 1994 for work he had done in the 1950s. The chemistry prize this

Clary manuals (From left) Cavid Bakes, John Jumper and Dermi year also continues a rela-tively new tradition in this category of the prize going to non-chemists - alth-ough 1981 chemistry lau-reate Roald Hoffmann has comes relatively quickly af ter the corresponding work, around four to six

reate Roald Hoffmanin has interpreted this to be a mark of chemistry's "far and influential reach". Mr. Baker works at the University of Washington in Seattle and Mr. Hasselhis and Mr. Jumper work at Google DeepMind in Lon-don.

Baker, Jumper, Hassabis share Nobel in Chemistry for tools to design proteins and predict structures

Vasudevan Mukunth

CHENNAI

The 2024 Nobel Prize for Chemistry was shared by David Baker "for computational protein design" along with Demis Hassabis and John Jumper "for protein structure prediction," the Royal Swedish Academy of Sciences announced on Wednesday.

Heiner Linke, chair of the Nobel Committee for Chemistry, said the award honoured research that connected the sequence of amino acids that make up a protein and the protein's structure.

Mr. Baker led a team that in 2003 designed a new protein using bespoke software methods. They and others have since refined these methods to be able to point the way to 'designer' proteins intended for specific applications.

Johan Åqvist, a former chair of the chemistry Nobel Committee, called the variety of proteins developed by Mr. Baker *et al.* to be "absolutely mind-blowing" and that "it seems that you can almost construct any type of protein with this technology".

Mr. Hassabis and Mr. Jumper received the other half of the prize for their hand in developing an artificial intelligence model called AlphaFold 2 that could predict the structures of millions of proteins.

Human scientists had done that for only around 1.7 lakh proteins until then, although the structures and patterns therein were used to train AlphaFold.



Glory moment: (From left) David Baker, John Jumper and Demis Hassabis, the recipients of Nobel Prize for Chemistry, 2024. AP

"Four years ago in 2020, Demis Hassabis and John Jumper managed to crack the code. With skillful use of artificial intelligence, they made it possible to predict the complex structure of essentially any known protein in nature," Mr. Linke said.

The Nobel Prize for Mr. Hassabis and Mr. Jumper comes relatively quickly after the corresponding work, around four to six years.

Unusual pattern

There is usually a gap of a few decades between the work and the prize because the former does not immediately prove to be of "greatest benefit to humankind" – a criterion for winning.

For example, John Goodenough shared the 2019 chemistry prize for his work on lithium-ion batteries in 1970s.

John Nash, Jr. won part of the Nobel Memorial Prize in Economic Sciences in 1994 for work he had done in the 1950s.

The chemistry prize this year also continues a relatively new tradition in this category of the prize going to non-chemists – although 1981 chemistry laureate Roald Hoffmann has interpreted this to be a mark of chemistry's "far and influential reach".

Mr. Baker works at the University of Washington in Seattle and Mr. Hassabis and Mr. Jumper work at Google DeepMind in London.

THE WINNERS

David Baker, 62, is a professor at University of Washington

Demis Hassabis, 48, is the CEO of Google DeepMind

John Jumper, 39, is senior research scientist at Google DeepMind





- Half the prize was awarded | Hassabis & Jumper utilised to Baker for 'computational protein design'
- The other half was shared by Hassabis & Jumper 'for protein structure prediction'
- Al to predict the structure of almost all known proteins
- Baker learned how to master life's building blocks and create entirely new proteins

The prize for chemistry is worth 11 million Swedish crowns or \$1.1 million • The first Nobel Prize in Chemistry was awarded in 1901 to Jacobus Henricus van 't Hoff, of the Netherlands, "for his discovery of the laws of chemical dynamics and osmotic pressure in solutions". From 1901 to 2023, the award has been bestowed on a total of 192 individuals.

• As of 2022 only eight women had won the prize: Marie Curie, her daughter Irène Joliot-Curie, Dorothy Hodgkin (1964), Ada Yonath (2009), Frances Arnold (2018), Emmanuelle Charpentier and Jennifer Doudna (2020), and Carolyn R. Bertozzi (2022).

Awarded for Outstanding contributions in

chemistry

Location Stockholm, Sweden

Presented by Royal Swedish Academy of

Sciences

Reward(s) 11 million SEK (2024)^[1]

First awarded 1901

Last awarded 2024

Currently David Baker, Demis Hassabis

held by and John M. Jumper (2024)

Most awards Frederick Sanger and Karl

Barry Sharpless (2)

- 2024 Nobel Prize in Chemistry
- Awarded to David Baker, Demis Hassabis, and John Jumper.
- Recognized for "computational protein design" and "protein structure prediction."

Significance of Their Work

- David Baker led a team that developed new methods to design proteins using software.
- Their work enables the creation of "designer" proteins for specific applications.
- Hassabis and Jumper were recognized for using AI to predict the structure of millions of proteins, especially through their model AlphaFold 2.

Comments from Experts

- Johan Åqvist praised the technology as "mind-blowing," allowing for the construction of almost any protein type.
- Heiner Linke from the Nobel Committee highlighted the research's impact on understanding amino acid sequences and protein structures.

1.Contextual Information

- 1. The prize came relatively quickly (4-6 years after the work was done), which is uncommon for Nobel Prizes.
- 2. The award highlights the increasing role of AI and non-traditional chemistry research in advancing the field.

- Which of the following statements is true regarding the 2024 Nobel Prize in Chemistry?
- 1. The award was given for developing a vaccine for COVID-19.
- 2. David Baker, Demis Hassabis, and John Jumper were recognized for work related to Al-based protein prediction.
- 3. The Nobel Prize was awarded 20 years after the original work was completed.
- 4.AlphaFold 2 is a model that predicts the structure of planets, not proteins.

Ratan Tata, a titan of Indian industry, + takes his final bow

The Hindu Bureau MUMBAI

Tata Group's chairman emeritus and veteran industrialist Ratan Naval Tata passed away at the Breach Candy Hospital in Mumbai late on Wednesday evening. He was 86.

"It is with deep sorrow that we announce the peaceful passing of our beloved Ratan," his family said in a statement.

"We his brothers, sisters, and family take solace and comfort in outpouring of love and respect from all who admired him. While he is no longer with us in person, his legacy of humility, generosity and purpose will continue to inspire future generations," the family said. Mr. Tata is survived by his younger brothers Jimmy and Noel and stepmother Simone.

Prime Minister Narendra Modi paid rich tributes to Mr. Tata, describing him as a visionary business leader and an extraordinary human being, "One of the most unique aspects of Shri Ratan Tata Ji was his passion towards dreaming big and giving back. He was at the forefront of championing causes like education, healthcare, sanitation, animal welfare to name a few," he said on X.

In a statement, Tata Sons Chairman N. Chandrasekaran said, "It is with a profound sense of loss that we bid farewell to Mr. Ratan Naval Tata, a truly uncommon leader whose immeasurable contributions have shaped not only the Tata Group but also the very fabric of our nation."

The Congress condoled the death, with Leader of the Opposition in the Lok Sabha Rahul Gandhi saying Mr. Tata was a man with a vision who had left a lasting mark on both business and philanthropy.



RATAN NAVAL TATA 1937 - 2024

RNT, as he was called in the Tata Group, was its chairman from 1990 to 2012, when he handed over the baton to Cyrus Mistry. Following Mr. Mistry's ouster in 2016, he again assumed the position of interim chairman. He handed over the reins to Mr. Chandrasekaran, who was appointed chairman of Tata Sons in February 2017.

Though Mr. Tata had retired, he had a firm grip on the group as well as Tata Trusts, which owns over 67% stake in Tata Sons, the holding company.

It was J.R.D. Tata who identified his talent and chose him as his successor in 1990. In the initial years, Mr. Tata had to face steep resistance from several satraps who had operational control over large companies. Mr. Tata eased them out by the mid-1990s. Then he focused on putting the house in order and subsequently went global with the acquisition of Tetley, Jaguar, Land Rover, and Corus Steel.

It was he who made the Tata an international company and enhanced the stature of the group. He was polite to talk to but tough while dealing with issues and his opponents.

Post-retirement, he nurtured dozens of start-ups and invested in them through his company RNT Associates.

Architect Of Revamped House Of Tatas

Dec 28, 1937 | Ratan Tata is born to Soonoo & Naval Tata in Mumbai

1940 | Attends Campion and Cathedral & John Connon

schools in Mumbai, and
Bishop Cotton in
Shimla. Zubin
Mehta, Ashok
Birla (Yash Birla's
father), Rahul
Bajaj, Dinshaw

Pandole (who owned Duke's) and Yusuf Hamied of Cipla were Tata's classmates

1962 | Gets a degree in

architecture from Cornell University, US. Works with Jones & Emmons in Los Angeles. Rejects a job offer from IBM & joins Tata Group as an assistant in Tata Industries

1971 | Appointed director-incharge of National Radio and Electronics Company (NELCO)

1981 | Succeeds JRD Tata as chairman of Tata Industries

1986 Named Air India chairman

1988 | Appointed chairman of Sir Ratan Tata Trust (one of the two main Trusts that own a stake in Tata Sons)

March 25, 1991 | Becomes Tata Sons chairman

1995 | Named chairman of Sir Dorabji Tata Trust (another key shareholder of Tata Sons)

2000 | Tata receives Padma Bhushan award



JRD & Ratan Tata pay homage to Rajiv Gandhi on May 23, 1991

2008 | Tata is honoured with Padma Vibhushan

Dec 28, 2012 | Steps down as Tata Sons chairman on turning 75. Becomes chairman emeritus

Oct 2016 | Tata takes over as chairman again after Cyrus Mistry's ouster. Remains in top role till N Chandrasekaran is appointed

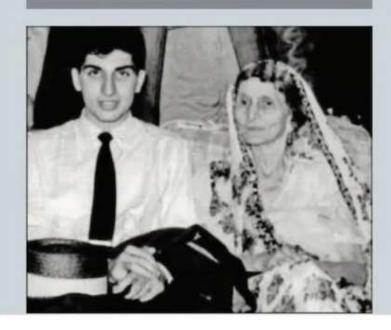


عگ عگ

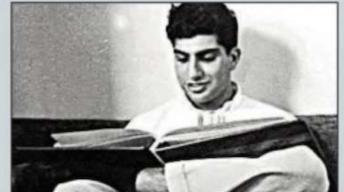
IVIIIIDI

FROM THE FAMILY ALBUM

Ratan Tata with grandmother Navajbai, father Naval and half-brother Noel



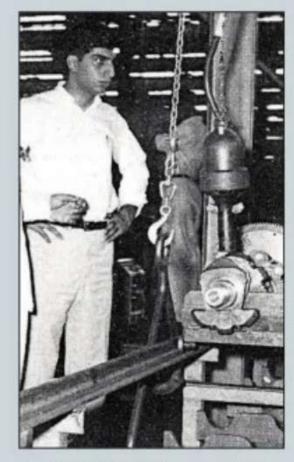






▲ With his younger brother Jimmy (R) & family pet in 1945 ◀ During his days at Cornell, where he studied architecture

RATAN NAVAL TATA



First visit to Telco plant in Jamshedpur in early '60s



Ratan Tata with JRD at the space shuttle factory in US



Relearning a lost skill after retirement: But he couldn't play with both hands, he said in an Insta post in 2021

.

OVER 60 DEALS IN 21-YEAR STINT

BIG & BOLD BETS

\$13bn | Tata Steel buys Corus, Europe's second-largest steelmaker (2007)

\$2.3bn | Tata Motors acquires Jaguar-Land Rover (2008)

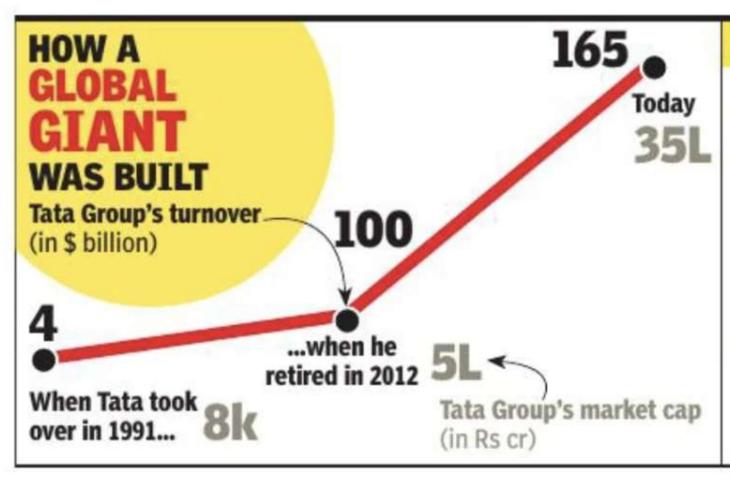
\$1bn | Tata Chemicals buys US's General Chemicals (2008)

\$512mm | TCS buys Citigroup Global Services (2008)

\$440mm | Tata Global purchases **Tetley** (2000)



➤ The pace of acquisitions grew dramatically — from **five** in 1991-2003 to **seven** in 2004 & **17** in 2005, **36** between 2006-10



FIVE REVIVAL MOVES

- Introduced retirement policy to get younger blood
- 2 Tightened HQ's grip, made group cos pay royalty to use Tata brand
- 3 Entered new biz—telecom, finance, cars
- 4 Made signature global acquisitions
- 5 Creative destruction: Indica (first indigenous car, Nano, Ginger (budget hotel)

NEW-AGE BETS

> RNT's first startup investment

Snapdeal (2014)

Other big startups he backed over the years

Lenskart	CarDekho	Ola		
Paytm	Upstox	FirstCry		
Major startups exited				
FirstCry	Lenskart	Paytm		

Source: Tracxn

IN BERREET



Missing jawan found dead in J&K's Anantnag forest area

An Army jawan was found dead on Wednesday, a day after be went musing to a forest area of Ariantosay's Kokernag area. An Army spokesman said a joint counter-terrorist operation was launched by the Army sleng with the I&K Police in the Karwan forest of Kokernag on Cécibier 8 in the Karewan forest of Kohormag in October 8 and continuous overnight as one soldier of the Territorial Army was reported missing. Official sources shall four justices that a receive were reported safely. The body of the missing soldier was recovered on Wedensday morning from the force area, officials sald. The Army could not missing the continuous salds of the Army could not missing the sald. The Army could not sufficially sald. The Army could not sufficient the sufficient sald. The Army could not sufficient sald. The Arm

₹4,000 cr. for border roads in Punjab, Rajasthan approved

The Union Cabinet on Wednesday approved construction of 2,280 km of roads in the bonder construction of 2,200 km of roads in the border areas of Rajashan and Purjab at an investment of \$4,00 cme. "This decision will have a major and feedling of water angle, health and characton. It will also enhance rural livelihood, case travel, and ensure connectivity of these areas with the rest of the highway network," a government press statement and.

itself from party leader's U.S. polls meet

Prime Minister Narendra Modt may fave awoded meeting both candidates, Vice-President Eamala Harris and former Presi Harris and former Presi LUS, election during his re-cent visit, but the poll, due in less than a month, has resided a contiencemy with in the HP. Bur's foreign affairs cell in BBr's foreign affairs cell in

On Wednesday, the MyPs foreign affairs cell in charge, Vilya Chauthai wale, rook to docial media platform X to state that an inced by Dellis HIP leader Vilya Jolly and hosting Shallak Kimar, chairpersen of the Republican Hindu Coattion USA, had nothing that the HIP was not supporting or opposing any porting or opposing any candidate in the fray. "It has been brought to

my notice that shri apvijay-jollytijp, self proclaimed 'senior BIP leader' is organising online meeting sup-porting one of the two main presidential candi-dates of the US elections. dates of the UR elections. BIP has nothing to do with this event. BIP is very clear that US elections is an internal matter of the US and BIP is not supporting or opposing any candidate in that country," Mr. Chauthawale poeted.

er the accused had created "a situation of unbearable

harasement or torture, leading the deceased to see

suicide as the only es-cape". Second, whether the accused exploited any

Ereflewity uncle takes snakey and releases to Unaware and madly rapling about nothing (8). Put on clothes again in reparation (7). Living things reprise assumd China by and of autumn (6) implement got from small squalid dwelling (6) implement got from small squalid dwelling (6). Made leaves spilled sharmpes in store (4).

Modi to hold bilateral CCS clears deals for talks with leaders at **ASEAN-India summit**

Relations with ASEAN a central pillar of Act East Policy and Indo-Pacific

Kallol Bhattacheries NEW DELIN



the 19th East Asia Summits.

The annual events are crucial as they are being held against the backdrop of fast developments in Myanmar where ethnic armed reganisations are battling the military jums of the country, creating lumfles for regional con-nectivity and encurity

plans.
"India is marking a de-cade of the Act East Policy this year. Relations with ASEAN are a central pillar of the Act East Policy and our Indo-Pacific vision," the Ministry of External Af-fairs said on Thursday an

nomeing the visit.

Mr. Motil will reach the
Lactian capital Vientiane
on Thursday and will hold
bilateral meetings with
leaders of the ASEAN countries after attending the
ASEAN-India stimult in
the afternoon.



Laos is the current chair of ASEAN and Mr. Modi will be travelling at the invi-tation of his Laotian counterpart, siphandone. dionexay

Maritime issues

Maridime issues
The AsiEnA aummit, which
began on October 6, is siginfream as is being held
against the backfrop of
the control of the control
against the backfrop of
the control
against the Philippines and
China over maritime issues
in the Bouth China Sea and
the crisis in Myanmar
where the ethnic groups
are secoring big vectories
against the military force of

the junta. Apart from the regional leaders, Laos will host Australian Prince Mi-nister Anthony Albanese. The events in Laos will

te the first diplomatic en-gagement by the new lapa-nese Prime Minister Shigeru Ishiba, who took charge on October t. During his stay in Vientiane, Mr. Modi will witness the Lao adapwill witness the Lao adap-tation of the Ramayana.

The ametent Indian clas-tic is celebrated as Phra Lak Phra Lam (Phra Lakch-man Phra Ram) and it is one of the several adapta-tions of the classic in Southeast Asia.

31 MQ-9B drones and submarines

Dinakar Peri

The Cabinet Committee on Security on Wednesday approved two high-profile deals for the purchase of 21 MO-98 High Altitude Long Bindurance (HALE) Unmanned Aerial Vehicles of the U.S. and indigenous of the U.S. and indigenous control of the U.S. and indigenous co ous construction of two

The MICHIE HALF HAVE

a confirment by classources.

Approval from CCS is the final step and the MQ-9B deal new awaits for mal conclusion. As part of the deal, General Atomics is achestuled in establish a Clobal Maistenance, Re-pair and Overhaul (MRO) facility in India which would count towards offset obligations.

As reported by the His-Defence Acquisition Coun-cil (DAC) chaired by Mr. Singh had approved amendments to the MQ-98

amisudments to the MQ-988 deal related to indigenous content and related as pecta.

The deal for 31 MQ-98 LAMs, IS Son Chardians for the Indian Navy and 16 Sky Guardians, eight each for the Indian Army and Air



Approval from CCB is the final

Posses, is enthroped to com-

\$3.99 billion.
India has already indigenously manufactured nuclear-powered ballistic missile submarines (SSBN)

into service in 2016. as they give unlimited en-durance to perform a va-riety of tasks, their endu-rance only limited by that

rance only limited by that
of the crew.
India has in the passession of the contracted
is and a third 28N which
has been contracted is expected to join service in
another two or three years
after some delay.

Former chief of Delhi AIIMS P. Venugopal passes away

+ The Himbs Bureau

cantiac surgery, who con-ducted India's first heart transplant and led over 50,000 heart surgeries in his career, passed away on Tuesday. He was 52.

Wednesday at the Lodhi Boad Crematerium here at

He, a Padma Bluebar He, is Padmis Bluishan awardee, is survived by his wife, Prilya Sarkar, and daughter, Salmaha Panuargipalli. He published his memorist, Pacet felt, joint with his wife in 2023.

As a leading aurgion, Venugopal Introduced may advanced concepts in cardiac aurgory from the secretary advanced concepts in cardiac aurgory from the

SC interprets what constitutes crime of 'abetment of suicide'

Krishnadas Italagopul

The Sugreme Court has in-The supreme court has in-terpreted the crime of "abetment of suicide", say-ing the offence is made if "direct and alarming on-couragement or incite-ment" has left the de-ceased with no option but to take the fatal step.

A Bench of Justices J.B.
Pardiwala and Manoj Misra

Partitivals and Manq Mirrs said the "extreme action" could be due to a "great institutions" loading to the manufacture of the said to the said of the

'Ban stalls of non-Sanatani people at Kumbh Mela' of suicide) of the IPC.
Allowing the appeal, the court laid down thestrative, not exhaustree, parameters to check if it is an abetment case. The first question would be wheth-

The Hindu Bureau

The Akhii Rharatiya Akha-The Akhii Bharatiya Akha-ra Parishad (ASAP), an apex body of Hindu seers and religious leaders, on Wednessky announced its decision to prevent "non-sanaran" people or those who do not believe In Sanatan Dharma - From scheduled to be held in Prayagraj near year. Leaders of the Hinds

the actuard explained any emission and undershifty to make a present field "worth-last of understring of the desired for the end of the desired of the desired of the end to the desired of the end to the desired of the end to the end of the en Leaders of the Hindu group artifunded their desi-sion to videox allegedly depicting people from "a particular community" ad-ding spit and urine to food ding spit and urine to food ed that only Sanatari pol-ice officials be assigned to duty. They intend is con-vey their demands to the Uria Pradeah government near month.

Calcutta HC seeks response of Centre, Bengal on stalled MGNREGS wage payments

The Calcutta High Court has sought a response from the Union and West Bengal ployment allowance to Ma-hatma Gaudhi National Rural Employment Guaran-tee Scheme (MGNREGS)

tee Scherie OMGRREGS breuefishing. 7, the cour-referred to the differences-referred to the differences-referred to the differences-ter to the differences-ter to the differences of the treatment over the release of MONIKIGS bands, leading to non-payment of wages. West Bergal Actecate General Riehore Datas said the State was trusble to im-te a March 9, 2022 order by the Centre freezing the

the Centre freezing the funds due to the State and asking it to follow certain

SUDOKL



fore a Division Bench of Chief Justice T.S. Sivagna-nam and Justice Bivas Patnam and Justice Blear Pat-tanayak, said the Stare go-vernment had Caken esveral measures in com-pliance with the directives and the freezes should be Bred. "The Centre has paid 49 visits, but did not find any substantial irregu-larities. We sent 20 action-taken reports to the visit-ing, team, but there has

"Whether their paymester pays or not, it is the obligation of the State government to provide employment," argued advicate Purbayan

cate Purbayan Chakrahorry, representing the Paschim Banga Khet Muzdoor Samity. He said the row could not be a reason for not pro-

Fected their lives adversely.
About a month ago,
4,700 MCNRRGS workers 4,700 MGPREGS workers write in Prime Misister Narendra Modi urging him to resume the acherite in the State which had been suspended over a face-off between theparties. Chief Minister Marmata-burne joe had accused mul-liant failed to release their long overdue MGNRKGA hunds.

Govt. approves continuation of free fortified rice supply

The Hindu Bureau

The Union Cabinet on Wednesday approved the continuation of supply of free fortified rice under various welfare programmes from July 2024 to Decem-

Valahnaw said rice fortifi cation would continue as a Central sector initiative with 100% funding by the

The move is aimed at

The move is aimed at addressing anaemic and micronutrient deficiency. Fortified rice will be provided free under pro-grammes such as the Tar-grated Public Distribution System, Integrated Child Development Revice, and PM POSHAN, in all the Notes and UTS.

THEROSEWORD + 14302 In across to our appared in the parties of the

- Access

 9. Wrongly okay knock out (4)

 9. Some son of nistakks in party, possibly (5)

 10. Cereal that's privalent in some extent (4)

 11. Starting of financial institution as company is big failure.

13 Relatively expensive pouth Indian bresideat dish with right portion of hetchips (III and the Control of Control (III) (III)





FAITH

Serving God and Acharyas

When we do a randhama to Lord Narayana, our Acharyas are pleased. So, service to God gets converted into service to Acharyas. Kathisarya is a word that has deep algorithms of the service important.

A classic example of devotion to his Acharya is seen in

A casses example of developin to ma Acranya is seen in the case of Madhuristari Azhvar. In his Raminium Strath-ambia, he praises only his Acharya — Naminsalvar, He does not praise God. A similar devoluin to his preceptor is seen in the case of Vadaga Nambi. Once when Lord Raingaseen in the case of Vadaga Nambi. Once when Lord Ranga-natha was out on a presention, Vadaga Sambi was busy boiling milk for Ramanujacharya, the said carring for his having darshan of Lord Ranganatha. On another occasion, Kamanujacharya was leaving for a pilgrim centre. He saled Videiga Sambi to pack the detise sha to Giarman packed Ramanujach Sambi of Vadaga Nambi bad pucked Ramanujach sardada sleng with the deties. A shocked Ramanujac sardada sleng with the deties. A shocked Ramanujac sardada sleng with the deties. A shocked Ramanujac sardada, sleng sing his detiction of the sambi Ramanujach sardada, seen sin on way interior to Ramanujach sardada, were in no way interior to Ramanujach sardada, were in no way interior to Ramanujach sardada.

CCS clears deals for 31 MQ-9B drones and submarines

Dinakar Peri NEW DELHI

The Cabinet Committee on Security on Wednesday approved two high-profile deals for the purchase of 31 MQ-9B High Altitude Long Endurance (HALE) Unmanned Aerial Vehicles (UAV) from General Atomics of the U.S. and indigenous construction of two nuclear attack submarines (SSNs).

The MQ-9B HALE UAVs are for the three services, as confirmed by two official sources.

Approval from CCS is the final step and the MQ-9B deal now awaits formal conclusion. As part of the deal, General Atomics is scheduled to establish a Global Maintenance, Repair and Overhaul (MRO) facility in India which would count towards offset obligations.

As reported by *The Hindu* earlier in end-July, the Defence Acquisition Council (DAC) chaired by Mr. Singh had approved amendments to the MQ-9B deal related to indigenous content and related aspects.

The deal for 31 MQ-9B UAVs, 15 Sea Guardians for the Indian Navy and 16 Sky Guardians, eight each for the Indian Army and Air



Approval from CCS is the final step and the MQ-9B deal now awaits formal conclusion.

Force, is estimated to cost \$3.99 billion.

India has already indigenously manufactured nuclear-powered ballistic missile submarines (SSBN) and the SSN project will be a follow-on to that.

India's second SSBN, INS Arighaat, was commissioned into service at Visakhapatnam in end-August joining INS Arihant, which was commissioned into service in 2016.

The SSNs are a critical requirement for the Navy as they give unlimited endurance to perform a variety of tasks, their endurance only limited by that of the crew.

India has in the past leased two SSNs from Russia and a third SSN which has been contracted is expected to join service in another two or three years after some delay.

- The Cabinet Committee on Security (CCS) approved the purchase of 31 MQ-9B High Altitude Long Endurance (HALE) UAVs and construction of two nuclear attack submarines (SSNs).
- The drones will be used by the Army, Navy, and Air Force.

Details of the Drone Deal

- MQ-9B UAVs, including 15 Sea Guardians for the Navy and 16 Sky Guardians for the Army and Air Force.
- The total cost for the drones is estimated at \$3.99 billion.

Indigenous Submarine Efforts

- The submarine construction is a follow-up to the indigenous SSBN program, with India's second SSBN, INS Arighaat, joining the fleet recently.
- India has leased SSNs from Russia in the past and is working towards developing its own capabilities.

- Offset Obligations and Local Development
- General Atomics will establish a Global Maintenance, Repair and Overhaul (MRO) facility in India to meet offset requirements.
- Recent amendments to the drone deal include increased indigenous content.

IN BEHRREE



Probe panel report to ZEE board finds no irregularity

The Independent Investigation Committee (IIC) incommends to the Committee of the Committee

SpiceJet settles \$132-mn dispute with leasing firm

Budget carrier Spicelet on Wedneaday said it has amicably settled a \$132-million dispute with sircraft leasing firm Bahoock & Brown Aircraft Management (BhAM). The dispute, valued at \$133.68 million (Tt.).67 crore) with the leasers— fortion Aviation 1 Ltd., Horizon II Aviation 3 Late, and Horizon III Aviation 3 Let. — has been residved for \$22.5 million, spicejet said in a statement. All these lessors are under the management of BBAM. —

Telcos monthly revenue per user climbs 8% in June qtr

In signs of improving financial metrics of telecom in again of improving manical metrics of recent in firms, the monthly average revenue for indule services rose more than 8% year-on-year to 157.45 per user in the quarter ended June 2024, according to a report by the Tolecom Regulatory Authority of India (Trab. The monthly average revenue per user GAREO for whether service atom at 1816-56 in the January-March period, thus translating into a 2.55% sequential increas On a year-on-year basis, AGR grew by 7.81%. . .

Soon, a new

repository to

bridge climate

risk data gaps

The RBI has proposed a da-ta repository, namely the Reserve Hank - Climate Risk information System RB-CRIS, in two parts, to

GBI-CAUS), in two parts, to bridge the gap in climate related data for entities. The first part will be a web-based directory, list-ing various data ensures, and would be accessible on RBYs website. The second part will be a data partal comprising processed data in sundardised formats. The secent to the data

portal would be made available only to regulated autities for improving their

The Hindu Bureau

Hyundai unveils India's largest IPO

The IPO of C22870 crore consists of an offer for sale for 14.2 crore equity shares by the promoter and has no fresh issues. The price band was fixed between ₹1.865 and ₹1,960 apiece. Bids will be open between October 15 and October 17

Ashekamithran T.

yundai Motor In-dia Ltd. (IMIL) atmounced India's largest ever initial public offer (IPO) of ₹27,870 crore on Wednesday. Bids for the

on Wednesday, Bids for the IPO will be open between October 15 and October 17. The IPO consists of an offer for eale for 14.2 crore requiry shares by the pre-moter and involves so fresh issue of share. The proceeds of the offer will be received by the promoter firm. The price band has been fixed between



The IPO will dilute 17.9% of the promoter shareholding. This will further increase to 25% in the next three to live years, to

public shareholding norma of the Securities and Ex-change Board of India GE-BD, the company said. Increase in price of in-

and foreign," said Tarus Carg, chief operating offic-er, HMIL. Hyundai has plans to introduce three new electric vehicles in the limited number of sup-pliers are key risk factors, according to the prospec-tus. The share of parts sourced from outside India has increased to 19% in Qt current financial year This is among the world's first automobile 2024-25, from about 17.55%

in 2022. HMII, is the second lar-HMIL is the second lar-gest automobile company in India with a market slare of 19% in Qi this year, after Maruil Musuki, othich has the largest market share of 44%, according to in Ited Horring Prospectus. "We are the largest or-porter on a cumulative ba-jorter on a cumulative ba-selies, so we have a double earlies, so we have a double earling crowth, domestic

crore offering in 2021, and Coal India's \$15,000 crore IPO in 2010, were the other

	90.807 97.807 97.900 97.900 97.83	0.00 0.00 0.00 0.00
9.0	77117	110000
	HERTY	1000
	0499.15	-12.77

	1753	119818
Mary States	BIRE IV	-5-95
Colored Problems	1400.15	30.00
Antiera dinter Antiera districa Applito Olympia	2000.00	\$5.00
Ameri Paretti	4006.66	19.16
AND THESE	64 Per 4.8	12.00
Makes Arriva	11000011	43.66
TALLETON	1000000	10.72
Base Christian	District of the last	13.550
Morne Chi.	100.00	7,532
Start Start	10000 10	30.00
	11741	0.66
Marie Control	- Section	197.19
Chefd	145000	20.00
Civil I take	100000	4.50
Dr. Breidge Cab	140.00	7.75
dallact Matter	2106.00	12.44
distant wid	1716.73	12.00
49151.04	2150,19	13.44
HIS heat	1495.15	20.75
1111.705	1699.39	-0779
HARLAND CO.	197.00	7.69
HOLHESTE	0111.64	40.15
TO BRUE.	707.00	6.16
Hard Newtoner	1100.00	45.66
CKI Back	1286.16	7.44
INTERNATION AND ADDRESS OF THE PARTY.	1981-45	18819
Certopan	1993.19	5.15
PER	250,00	19-19
rotes book	1831181	1644
AMERICAN STREET	9447.00	49.44
MARK.	SANTAN.	-12.65
Million Articles	2014.04	85.19
y rem	419.44	3,44
NAME OF THE OWNER OWNER OF THE OWNER	2199.50	-41114
NEW LOTS	2137.44	9.44
		17.17
144	4447.64	4444
too reason	PRINCES.	15.75
Tatal noncomplies		
4.00		14.44
Tale Monara	2000.15	10.75
AND DESCRIPTION OF THE PARTY OF	10000	7.5
115	157.55	- 20
Territorian de la constanta de	7222.72	20.50
Tries	1404.64	2011
17564	2011.11	2.11
trera still	BEGO.RE.	155.56
HEIDEN CONTRACT	31450116	35.55
Marin .	993.44	***

The RBI has proposed to disallow bank lovies like fo-rectoaure charges and pre-payment penalities on loans to nucro and small

Lenders not

to fine MSEs

for pre-paying loans: RBI

HMII/s top brass said. If successful, this would be the largest ever IPO in the Indian market, eclipsing

anctor remains healthy, the Georgico said the "east liers" must review prevail-ing compensation practic-es, variable pay and incentive structures some of which appear to be purely target driven. Mr. I'an stressed that the appropriate action, if ne-cessary but added that permitted to levy such pre-payment penalties or fore-closure charges on floating rate term loans sanctioned to individual borrowers for purposes other than con-ducting business. A draft

EXCHANGE BATES

AT ST OWNER OF		- 11
sassaiv	27 866	TERES.
4 toba	85.75	44 479
186		75.46
HER PANE	144.0	11.0 10
AARDER WITH SOME		166.6
Talvancia Vicabili	41.45	115.00
serget, France	41.30	97.66
named tales	19.19	44.44
respirer bytes	81,54	.63.44
NAME AND PERSONS	19.95	10.65

To redeem 2027/28 bonds, Vedanta Resources pays

off \$869 mn Press Trust of India

Vedanta Resources Ltd. has said it paid \$809 millices to heardholders in October its redeen bands three to feur years about of maturity.

The repayments are part of a larger liquidity management searches un-

management exercise un-der which Vedanta Re-sources Finance II PLC (VRF) – a wholly-owned subsidiary of Vedanta Re-sources Ltd. – is repaying bonds with a higher inter-rate to save interest

VBF has repaid \$809 million to bonalinkless holding 13.9798 borned due in 2027 and 2028, respectively. According to the company's Singapore extense, which is not supported to the company's singapore extense, which is not supported to the company repail \$470 million, as per lilings on October 4 and October 3.

As per VRP's exchange deemed and are no longe mastanding. Similarly, the company has repaid \$300 million to those helding it 13.87%% bonds due in 2020

ny and Spain to comply with internal Mercodes-As per a September II fi

RBI's Das warns of action on NBFCs 'growing aggressively at any cost'

The Hindu Bureau

Reserve Bank of India (RBI) Governor Shaktikanta Das on Thursday warned of ac-tion against non-banking fi-nancial companies (NBFGs) purssing aggres-sive growth without build-ing southable business practices and 15k manage-ment frameworks.

ment frameworks.

"An imprission! 'growth-at-any-cost' approach would be counter produc-tive for their own health," Mr. Das said in his mone-Driven by the significant excepted to capital domes-

BIRTHOUGH LANGE

has also decided to intro-duce 'beneficiary account name look-up facility' for Real Time Gross Settle-ment System (RTGS) and Sattonal Electronic Funds Transfer (NRFT) in line

with payment systems like UPI and IMPS, providing an option to the remitter to

verify the name of the be-neficiary before initiating a

parleys related to the Pree Trade Agreement with the EU, the Minister said, "I am

sure it won't be escalated to the level of hurting the FTA talks as the trade act is

an important componen



pressure from investors, some NBPCs, including mi-

crofinance institutions and retorns on contry, he said.

of NBPCs, converse arise when the interest rates they charge become unitions and get combined with unreasonably high processing fees and filvolous penalties," he said. Push effect "These practices are some-times birther accentuated by what appears to be a youth appears in the a 'push effect', as lupiness targets drive retail credit greeth rather than its ac-tual demand. The conse-quent high-cost and high indebtedness could pose h-nancial stability risks, if

not addressed by these NBFCs," he added. While the overall NBFC

"self-correction by the NBPCs would, however, be the desired option."

Emphasising the likeli-hood of stress build-up in a few unsecured loan seg-ments like toans for con-sumption purposes, he said the RBI will take ne-

Mercedes Benz India mulling two more car launches by December

HDFC Bank to divest holding in HDFC Edu to HCL group company

The Hindu Bureau

The Board of HDFC Bank on Thursday approved sale of 100% stake in HDPC Rdu to Vama Sundari Invest-ments (Delhi) Private Ltd. an HCL group company. HDFC Edu had been esepport.
This diversment has

This divestment has been necessitated due to regulatory requirements for HDFC Bank. The divestment of HDFC telu went through a long. comprehensive process in volving scrutiny of poten tial acquirers based on a set of eligibility criteria such as financial health, re-levant experience and alignment with the core educational values cultivared over the past decade by

HDFC Eds," said V.S. Ran-gan, executive director, HDFC Bank. TIDIC Bank.
"We are confident that
HCL Group will uphold the
exceptional standards of
services that HDPC Ruis
has been providing to the
HDPC Schools, providing a
norturing and academical-



hioved by the success of ts earlier products, Ger-nan houry carmaker Mer-redes-Bena Insha is planning to surprise its customers by relling out two more top-end husary cars priced at more than 0.5 crore each for the indian market in the coming months, said a top compa-

Earlier, we said that we will be rolling out 12 new ars. Today, we are unveil-ing the 13th with three vartante," said MD & CEO san-tosh Tyer during an Interaction.

Interaction.
"We are also planning to introduce two more top-sised busing care in Newton-ber and December, which would be priced above 15.5 inters, taking the total mus-ter of vary, to be intro-tuced in C.V.d. to 14," Mr. Sper added, Referrating they are se-contract to support

he said they are eagerly looking forward for the Di-wall season to maintain growth momentum. refled out new E-Class long wheel base (LWB) cars in three vertants E200 (pe-trob. E220d and E480 4MATIC (petrol) at an in-terior cars of E78. AMATIC (petrol) at an in-troductory price of \$78.5 lakh, \$81.8 lakh and \$82.6

ary-September period.
The carmaker delivered.

alone, flattery Electric Veh-ieles grew by 84%. "This resounding suc-cess in an otherwise chal-

EU's CBAM, deforestation norms unilateral, arbitrary: FM

RBI enhances

The Hindu Bureau

To encourage wider adoption of the Unified Payments interface (UPB), the means the properties of the UPB of the Interface of the Interface of the Interface of UPI (124) and UPI (144) is expited at \$15,000. To widen use-cases, the IRH, in consultation with the UPB of the IRH, in consultation with the IRH.

to enhance the per-tran-saction limit to £10,000, The BBI also decided to

enhance the per-transac-tion limit on UPI Lite from \$500 to \$1,000, and the ov-

climate risk assessment, RBU Governor Shakikaria 2,2,000 to 18,000. The banking regulator

transaction limits

on UPI 123, UPI Lite

The Hindu Bureau NEW DELIN

Finance Minister Nirmala Sitharaman on Thursday called out the European Union's initiatives such as the Carbon Border Adjustment Mechanism (CBAM) and Deforestation rules as and beforestation rules as unilatoral; and 'arbitrary' measures that will burr countries like India and sti-fle economic growth as well as green energy transi-tion goals.

Terming the CBAM plan a trade haviter, Ma. Sillian-mun said more such chal-ter to the countries of the throws up by the deve-loped countries, resents

toped countries, posing unforeseeable risks for countries like India that



'Not belopful to India'
"There can be many (mea-sures like this) but they are unilatoral, and not helpful for countries like India," she said at the Financial Times Knergy Transition bummit. Asked if India

are working towards their 'net zero' commitments to cope with climate change.

of wanting better trade re-lations, but our concerns will definitely be voiced, will definitely be voiced. We have voiced this this several three, and we will be doing it again?

It is a several three, and we will be doing it again?

It is a several three, and we will be doing it again?

It is a several three thr

ly rigorous environment for the students," Mr. Ranpecting to maintain dou-ble-digit growth for CY24,

'Best-ever' sales According to him, Mer-cedes Bene India recorded it's best-ever Q3 sales per-formance and also con-cluded highest-ever sales in it's history for the Janu-ary-Scotember sected.

14,379 cars, up 13% year on year of which 5,117 units were bunded over in Q3

ces in an otherwise challenging marks underscores the strength of our
destratels produces, our
ces and an unmarched wake
proposition of our financial services; I be said.

I wore localisation
The side and quarrar glasses
are now locally produced in Intels marking a
may ND said Service and the side of the side

Franchise Partners for the

latter, according to the

The creah and emission

Hyundai unveils India's largest IPO

The IPO of ₹27,870 crore consists of an offer for sale for 14.2 crore equity shares by the promoter and has no fresh issues. The price band was fixed between ₹1,865 and ₹1,960 apiece. Bids will be open between October 15 and October 17

Ashokamithran T.

MUMBAI

yundai Motor India Ltd. (HMIL) announced India's largest ever initial public offer (IPO) of ₹27,870 crore on Wednesday. Bids for the IPO will be open between October 15 and October 17.

The IPO consists of an offer for sale for 14.2 crore equity shares by the promoter and involves no fresh issue of share. The proceeds of the offer will be received by the promoter firm. The price band has been fixed between ₹1,865 and ₹1,960 a share.



Hyundai Motor India's MD Unsoo Kim and COO Tarun Garg during the press conference on Wednesday. PTI

The IPO will dilute 17.5% of the promoter shareholding. This will further increase to 25% in the next three to five years, to comply with the minimum

public shareholding norms of the Securities and Exchange Board of India (SE-BI), the company said.

Increase in price of inputs, and dependence on limited number of suppliers are key risk factors, according to the prospectus. The share of parts sourced from outside India has increased to 19% in Q1 2024-25, from about 17.55% in 2022.

HMIL is the second largest automobile company in India with a market share of 15% in Q1 this year, after Maruti Suzuki, which has the largest market share of 41%, according to its Red Herring Prospectus.

"We are the largest exporter on a cumulative basis since the last two decades. So we have a double engine growth; domestic and foreign," said Tarun Garg, chief operating officer, HMIL. Hyundai has plans to introduce three new electric vehicles in the current financial year.

This is among the world's first automobile IPOs in about two decades, HMIL's top brass said. If succesful, this would be the largest ever IPO in the Indian market, eclipsing the ₹21,000 crore raised by the Life Insurance Corporation of India in 2022. Paytm, with a ₹18,300 crore offering in 2021, and Coal India's ₹15,000 crore IPO in 2010, were the other large share sales.

Founded	29 December 1967; 56 years ago
Founder	Chung Ju-yung
Headquarters	Seoul, South Korea
Area served	Worldwide
Key people	Chung Eui-sun (Executive Chairman) Chang Jae-hoon (president and CEO) Jose Muñoz (COO) SangYup Lee (Chief Designer)
Production output	4,858,000 units(2016)^[1]
Revenue	▲ ₩117.61 trillion (2021) ^[2]
Operating income	▲ ₩6.68 trillion (2021) ^[2]
Net income	▲ ₩5.69 trillion (2021)[2]
Total assets	▲ ₩233.95 trillion (2021) ^[2]
Total equity	▲ ₩82.61 trillion (2021)[2]
Owners	Hyundai Mobis (21%) National Pension Service (9%) Chung Mong-koo (5%) Chung Eui-sun (3%) ^[3]
Number of employees	104,731 (2013) ^[4]

IPO Announcement

- Hyundai Motor India Ltd. (HMIL) announced India's largest initial public offering (IPO) worth ₹27,870 crores.
- The IPO consists entirely of an offer for sale of 14.2 crore equity shares by the promoter, with no fresh issue of shares.
- The price band is set between ₹1,865 and ₹1,960 per share, with bids open from October 15 to October 17.

- Impact on Promoter Shareholding
- The IPO will dilute the promoter's shareholding by 17.5%.
- This is expected to increase to 25% in the next three to five years to meet SEBI's minimum public shareholding norms.

Risk Factors and Market Position

- The company's dependence on imported parts increased to 19% in Q1 2024-25 from 17.55% in 2022.
- HMIL is the second-largest automobile company in India, holding a 15% market share in Q1, behind Maruti Suzuki.

1.Global Context and Future Plans

- 1. This IPO is one of the world's largest automobile IPOs in nearly two decades.
- 2. Hyundai plans to launch three new electric vehicles in the current financial year.

- Which of the following is true about Hyundai Motor India Ltd.'s recent IPO announcement?
- 1. The IPO includes both fresh issues and an offer for sale.
- 2. The IPO will reduce the promoter's shareholding by 25% immediately.
- 3. Hyundai Motor India plans to launch three new electric vehicles this financial year.
- 4. The company has the largest market share in India's automobile sector.

RBI enhances transaction limits on UPI 123, UPI Lite

The Hindu Bureau

MUMBAI

To encourage wider adoption of the Unified Payments Interface (UPI), the RBI on Thursday announced an increase in transaction limits on UPI123 and UPI Lite.

Currently, the per-transaction limit in UPI123Pay is capped at ₹5,000.

To widen use-cases, the RBI, in consultation with stakeholders, has decided to enhance the per-transaction limit to ₹10,000.

The RBI also decided to enhance the per-transaction limit on UPI Lite from ₹500 to ₹1,000, and the overall wallet limit from ₹2,000 to ₹5,000.

The banking regulator



has also decided to introduce 'beneficiary account name look-up facility' for Real Time Gross Settlement System (RTGS) and National Electronic Funds Transfer (NEFT) in line with payment systems like UPI and IMPS, providing an option to the remitter to verify the name of the beneficiary before initiating a payment transaction.

日 100 田名 福祉 田田 田子田子



Liverpool goalkeeper Alisson set for six weeks out

Liverpool goalkooper Alisson Becker is expected formatting injury, which would rule him out of murches against Chelens and Arsend. The 32-year shift liveral injury and Arsend. The 32-year shift liveral injury and was hard their gazen shift liveral injury and the shift liveral injury and was hard their shift liveral injury and was a shift liveral injury. The shift liver shift liver shift liveral injury and the shift liveral injury.

Lakshya enters second round of Arctic Open

Lakshya Sen progressed to the men's singles round of 16 at the Arctic Open Super 500 tournament after his opponent Riamus Gerike withdrew from the opening round match at Vantaa (Pinland) on Wednesday. In the women section, Unual Hoods defeated Brazil's Juliana Viana Viera 21-16, 23-25, 21-17.

Raja wins men's 61kg with record lifts

M. Baja bettered his National record twice each in clean and jark (899ag and 188lg) and total (263lg, 299ag) on his way to win the mon's 60g eroson in the National weightlifting in Nagrota Bagwan (99) on Wednesday, Survicee 'C3. Bishikanta Singh bettered the National record in snatch (new 124kg, old 12thg, T. Madhavan) while taking the silver.

The results (edinners only): More \$28g; \$58c; M. Roje (BSPB) anatric Litting, clean and jork litting (NR, Old, saft. (BibCP) annaris Listing, cleans and joth Listing (Hill, Citin, Saif, Listing), Lista Joseph (Hill, Citin), and Johnson Doloren Timbe (Avail 117bg, 147bg, 240bg, Yasarka V. Historie (TN), 164bg, 154bg, 274bg, 674bg, 154b (Hospitan Hill), 162bg, 122bg, 157bg, 250bg, Jamber and Yasarka Khamilagate (Hala) 27bg, 152bg, 261bg, Womann Solog (Ette of Nordyagate (Historia) 161bg, 150bg, 133bg, Jumber and Vessith Hina Santa (Coti) 195g, 261bg, 17bg

Padmini beats Sarayu, grabs the sole lead

Defending champion Padmini Roat of PaPH defeated top-seed Velpula Sarayu of Telangana in the seventh round of the Soft Roatseral women to the seventh round of the Soft Roatseral women to trave into the sole lead. The 31-move win took to trave into the sole lead. The 31-move win took Padmini to 65, points and gase her a full point advantageover the reat of the field. WOME EV. Mandhild Host and Blakbrith Leav, WM K. Physraka and J. Sarasaya, all from Tamil Nadu, are close on the feels of the 15HH player.

IOA announces dates for National Games

The Indian Olympic Association (IOA) has announced that the 38th National Games will be held in Ultarakhand from Jamury 28 to Pebruary 14 next year. The decision is subject to the He next year. The decision is subject to the approval of the IGA General Assembly, scheduled to meet on October 25. "We are thrilled to bring the National Games to Ustranshand, a State that has shown remarkable enthusiasm and commitment to hooting the prestigious event," said IGA president PT, Usha.

Rithvik and Ariun breeze through in pre-quarters

Bulletik Bollipalli and Arjun Kasller outplayed Francis Alcantara and Yu Halou Hau 6-0, 6-1 in the doubles pre-quarterfinals of the \$104,000 Challenger tennis in Hangahou on Wednesday.

Other results: \$104,000 Challenger, Hangehou: Doubles Pre-quarterfinate: Alex Boll & Astern Wolter. (Aus) in Torbind Arten i serie de la Constantia del Cons Pre-quaeterfrinate victor handes for level level more in e. 9.5, 19.5 a. 9.5, 19.5 a. 9.5 a.

Hotel II. at hit And it hopes to 2, 5-7, 6-1.

Spinners hold sway as India U-19 canters to a win

Offie Anmoljeet's nine-wicket match hauf hastens visiting team's end; leg-spinner Enaan impresses; valiant efforts by skipper Oliver Peake and Alex Lee with the bat go in vain

CHICKET

Tarun Shastry

ri what can be best de-scribed as a riveting day of ericket, where rain stepped play for 80 minutes, an opposing cap-tain accred a semantimal century, two finds spin-ners bowled our Australia, wice. team thrashed Australia U-19 by an innings and 120 runs on day three of the second Youth "Fest' at the M.A. Chidambaram here on Wednesday.

on Wediesday.

Maximing at 142 for
three, Oliver Peake (11,
199b, 164, 146) started aggressively smushing legsprinner Mohamed Einanfow a boundary straight
down the ground and pacer Chean Sharma for three
fours before rain halted.

Once play resumed, he
driver and out as he hed

Once play renamed, he drive and out as he led Australia's fightback before he reached a will-deserved hundred.

Off-spinner Anniologie provided India the break thrisigh when he diamis.

stip.
Office Partierson become
Annotiged's fourth scalp
while Enann picked up Lahis wicket to a brilliant dised Alex Lee Young 666, 14th, 9x4) breaking the les-run fourth-wicket partner-

christian Howe walked



Procession Between overs II to 24, it

P.K. Alith Kumar

Shreyan Royal wante D. Gukesh to win the upcoming World chess champion-ship. If the Chennal teenag-

back to a superb direct hit from R.P. Ratthikeya sta-tished the sale at the state of lunch. Armodest sent back Armodest sent back Armodest sent back the sale to be sent the break as he looked to go aerdal only to finit a loujing folkuli in the cover's go period only to finit a loujing folkuli in the cover's peppered Adam O'Comnor with abort deliverise be-fore he had him caught at

Chlan Banaldo and Vishwa roof hit at the non-strikers' Ramkumar as Australia end Anmoljeet dismissed

was bowled out for 277 in. Howe and Enan had Alwas howed out for 277 in its first imings.

On a turning and un-even surface, finds rightly enforced the follow-on as Ensan sent back filley Kingsell and Annudjeet gatekly chimisaed Simon Budge and Peake Jeaving Australia in trouble at 41 for three.

Howe and Enam bad Al-dan stumped.
Patterson did not had long and Hogan's resis-tance came to an end when Aumotjest rattled both and the state of the Chetan had Vishwa bowled with a delivery that kept low while Ammotjest pricked up Banatakis for its nits of the state of the own per bound in style.

The scores india is the six in Aus to 18 277 on 60.2 Swars (Oliver Posis: 137, Alex Les Young 66, Mohamud Ensan A/68, Armothest 6/72) & 88 in 31.3 swars

Anmoljeet savours a five-wicket haul on debut

Tarun Shaatry

in a battle between two teenagers playing for their countries, one scored a superb century but ended up on the losing side, while the other spun his team to victory with his first-ever five-fire.

tive for.

Australia U-19 captain Gliver Veake and India's Annealess Unigh have been standoust performers for their tespective teams. Later, the two players shared their thoughts on the second Youth "Test" with the results.

"We were trying to but annother, it wou for as long as we could. The pitch progressively got worse, the bounce was very low, and it was getting very difficult to bat, but their spinners were too good today. In the second

good today. In the second innings, we didn't slapt well quick enough, maybe well quick enough, maybe well guick enough, maybe to the second of the collapse. Said Posite on "Te the hardest finnings two played and one of my president moments until two played and one of my president moments until dad just asked me to enjoy and get around the enture conditions," said the Ausconditions," said the Aus-tralia U40 skipper. Meanwhile, Anmoljeet



at the way the wicket was behaving, we felt we could bowl them out. Bowling in tandem with Knaan also helped. We were helping

helped. We were helping sash other. We sido? want to do anything extra and to do anything extra and to do anything extra and to the method of the same automatically.

"This is my debut and gesting a free-wicker haul is a great feeling I just tried.

"Ten from Shimdapuri in statilizana, I prastice at the Garewal Sports. Academy, and I train under Intribute. ian Kala, he has put in a los of effort for me. He has worked hard on me. Even my family's support has

Meanwhile, Anmoljeet been immense." Anmoljeet said, "Firstly it rained in the macning. Then looking journey.

Injured Williamson likely to miss first Test against India

Press Trust of India

Senior batter Kane Wil-lamson is set to miss the minul part of the upcoming three-Test series in India starting on October 16 due to a groin strain, with New Zealand marning Mark Chapman as his cover in the 17-man aquae here on Wednesday, Tom Latham will be leading the Kiwis ar-

ter Tim Souther stepped aside from the leadership role a few days ago.

er does that - he is most people's favourite at the moment - Shreyes could tell his friends, "You know, I almost best the World champion in classical chees when I was 14, and drew with him, at any

That happened at the London Chess Classic least pocumber. It caught the chees work? attention, of course. The larger world became aware of the Benghuru-born Shreyas att years earlier, though. His father Jitsoudra Singhir work vise was alloud to expire and he was along to expire and he was The squad: Tom Latham (Cant.), Turn Blundell (wk), Michael Bracewell List Test only), Mark Chapman, Devon Conway, Matt. Sterry, Daryt Mittelhett, woo O'Rosarko, Ajaz Pattel, Olson Phillips, Rauber Harcendins, Mitchell Santhar, Bon Sears, 1sb Scotts Dred & Brell Test andy), Tim Carle Williamsen and told that it could not be ex-tended if he didn't earn £120,000. But, Rachel



Shrevas — the boy who helped his family avoid deportation and is now UK's youngest-ever GM

to started company: Shreyas making the opening move in the

Breezes, new Chancellor of

Reeves, now Chanceller of the Eschoquer, inter-vened, arguing that the one of its brightest had Shreyas been sleptoried. The then home accre-cian decision that allowed the family to stay under a new work visa. Shreyas re-mew work visa. Shreyas re-decision that allowed the family to stay under a new work visa. Shreyas re-penses the constity's A couple of months ago, he became the country's yestingest wer Grandmaster, beating David Howell's second by six months.

Howell is a commenta-tor at the Tech Mahindra Global Chess League, where kirveyse was a guest and made the imagural masse for one of the match-world class tournament has come to England, where the garne needs much more support than it is getting now," he told The "I hape this will help." Howell is a commenta-

And it was a bit surread to see some of my idols, in-clusting. Winvestarthan Amond site wasses. Amond site wasses. Chemical framedal sup-port badly. Farmer Prime Minister, Right Sunsik had allouded some ESOO DOO allocated some £800,000 last year for the develop-ment of chess but I think the new government has pulled out that funding, he says, "It is a hupe pity."

match between reigning champion Ding Liren and Galesh. "Gulesh has been play-ing really well, and even if Ding recurvers his form is will be hard for him to win the rauch," he says. "Gulkesh is a very confi-dent, discriptined Diager."

has come to Isagland, where the game needs much more support than it begins now, he told from thinds. Thepse this will help the wise and then I flinds. Thepse this will help the side and then I work that the statement of the complete it is a classical game when I was 14°. (The correspondent is in

dered a sport in the UK) in London at the invitation of trease its popularity here. Tech Mahindra)

Wimbledon replaces line judges with electronic system from 2025

Agence France-Preme

Wimbledon announced on Wednesday that it is scrapweatherday that it is scrap-ping its iconic line judges in favour of electronic line-calling from 2028, thang-ing the face of the grass-ement tournament. Smartly dressed un-pires and line judges are as

pire and line judges are a much part of the 197-year-old Grand Islam as 172w-berries and Cream and the better an architecture of the 197-year-old Grand Islam as 172w-berries and Cream Islam as the fallen min line is an expectation of the 197-year-old Grand Islam. The All English other tournaments around the world, spring didition and imnovation.*

The mem's ATP Ture is the Colonial Open and the Open, though the Vision in 197-year-old Grand Islam place for all US Open, though the Vision in 197-year-old plant of Championnhips and qualifying moth courts and the destination of relection.

cover the 'out' and 'fault' calls that have previously been made by line un-pires." It said in a state-ment on Wednesday. Tournament chieft said the decision to use ELC, which builds on existing

hall-tracking and line-call-ing technology, was made following extensive testing during this year's Cham-

during this years Cham-pionedisja.

Since 2007, Hawkeliye he majered the officials to majered the officials have been seen as the courts. 'The decision to in-troduce the electronic line calling at the Champion-sique as made following a substantian and consulta-tion, said All England Club chief executive Xally Bol-1001. had baggest a bronse in 2-11, 2-11.

Indian men advance while women falter

TABLE TENNS

Sports Buceau

India outplayed host Kasakhatan 3-t in the quarterfinals of the men's team event in the Asian ream ta-

40000

1960 in Bombay (now Mumba). On the other hand, the Indian men's team had clinched bronze in the previous two edi-tions in 2021 (Doha) and

The results: Ment Charge Theiles and Charge Theiles and Charge Theiles at Kirll Charge Theiles and Charge Theiles and Charge Theiles and Charge Theiles and Administration (Charge Theiles and Administration Charge Theiles and Charge Theiles a

Wednesday, India will sake on Chienese Taipus in the sensitiana in Thurshay.

Wednesday India will sake on Chienese Taipus in the sensitiana on Thurshay.

The sensitiana in the sensitiana in the sensitiana in the sensitiana in the sensitiana.

If the let the first-over me the sensitiana in the championships, brossed by Asian Table Teers and Union.

Taible Tennis Posleration of Asia, the wonger's issue to the champion of the championships.

IOA announces dates for National Games

The Indian Olympic Association (IOA) has announced that the 38th National Games will be held in Uttarakhand from January 28 to February 14 next year. The decision is subject to the approval of the IOA General Assembly, scheduled to meet on October 25. "We are thrilled to bring the National Games to Uttarakhand, a State that has shown remarkable enthusiasm and commitment to hosting the prestigious event," said IOA president P.T. Usha.

The way Indians eat is best for Earth: WWF report

Vishwa.Mohan

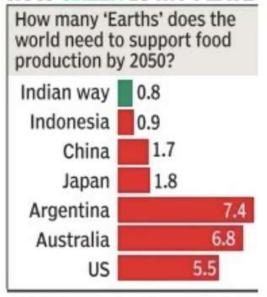
@timesofindia.com

New Delhi: WWF's Living Planet Report, released on Wednesday, calls India's food consumption pattern as most sustainable among big economies (G20 countries).

It would be least climatedamaging for Earth to support food production by 2050 if all countries adopt India's pattern, the report says. Argentina, Australia and USA are worst on this count.

"If everyone in the world adopted the current food consumption patterns of the world's major economies by 2050, we exceed the 1.5degree Celsius climate (warming limit) target for food-

HOW GREEN IS MY PLATE



related greenhouse gas emissions by 263% and require one to seven Earths to support us," it says, making special mention of India's millet mission.

▶India model, P 15

'With India model, world will need less than I earth'

▶ Continued from P1

If all countries adopt the current consumption patterns of India, the world would need 'less than one earth' (0.84) by 2050 to support food production, the report says. It points out that the Indian scenario is marginally lower than the planetary climate boundary for food, indicating the maximum amount of greenhouse gas emissions that food systems can emit to stay within 1.5-degree Celsius of warming limit.

In contrast, the world will need the highest 7.4 Earths if it adopts the consumption patterns of Argentina. It means Argentina has the worst system on a sustainable benchmark, followed by Australia (6.8), USA (5.5), Brazil (5.2), France (5), Italy (4.6), Canada (4.5) and the UK (3.9). Among the better ones, Indonesia (0.9) figures only after India (0.84) and ahead of China (1.7), Japan (1.8) and Saudi Arabia (2).

The report also appreciated India's ongoing efforts to promote climate-resilient millets, saying National Millett Campaign is designed to increase national consumption of this ancient grain.



DERAILFTATALKS



of recovering colors, # most 5

STRIKE ENTERS 2ND MONTH: SAMSUNG WITH DROVER & SAMOUR DAY MULLS MOVE

CERPLAINER Withy fair returns for farmers are elusive

ACT SECOND A MANDER OF THE PROPERTY OF THE PRO CAPILLARI INTO TEXT parts all of the management of the properties of the management of the second of

A PERCENDA CONTROL OF THE PROPERTY OF THE PROP

their color of the exp.

The color of the exp



REDUCED ACCESS TO CAPITAL, DECREASED INVESTOR APPETITE

Sharp 65% fall in number of startups launched this year

Heightened scrutiny on business models a challenge too

URVI MALVANIA Mumbai, October 9

THE NUMBER OF Indian startups launched in 2024 has declined nearly 65% compared to last year, according to data provided by Tracxn. While there has been a declining trend for startup launches since 2021, this is the sharpest year-on-year drop witnessed by the Indian startup ecosystem over the past 10 years.

This, experts say, is a combination of risk averseness among both investors and potential entrepreneurs, and the lack of a strong niche for innovation. "Various global and local factors could have led to this decline. There is an ongoing funding winter, which along with the economic uncertainty, geopolitical tensions and rising interest rates have



made it significantly harder to obtain growth funding," Neha Singh, cofounder and CEO, Tracxn said.

With just three months left, experts say the trend is likely to continue as investors maintain caution.

The cautiousness shown by investors, leading to the absence of significant growth funding, has in turn made entrepreneurs take a backfoot when it comes to launching new ventures. "One of the reasons could be increased risk averseness among potential entrepreneurs," Vivek Soni, partner and national leader of PE Services, EY India, said, adding that given the funding winter, people may be in a wait-and-watch

mode, accumulating capital and experience in the meantime.

"The startup space has also been hindered by a lack of novel, scalable solutions. Recent innovations have been largely confined to niche areas such as AI and R&D and space-tech," Vishal Agarwal, partner, Grant Thornton Bharat, said.

Word of the day

Comity:

a state or atmosphere of harmony or mutual civility and respect

Usage: There is a lack of comity between the political parties.

Pronunciations: newsth.live/comitypro

International Phonetic Alphabet: /ˈkɒmɪti/

