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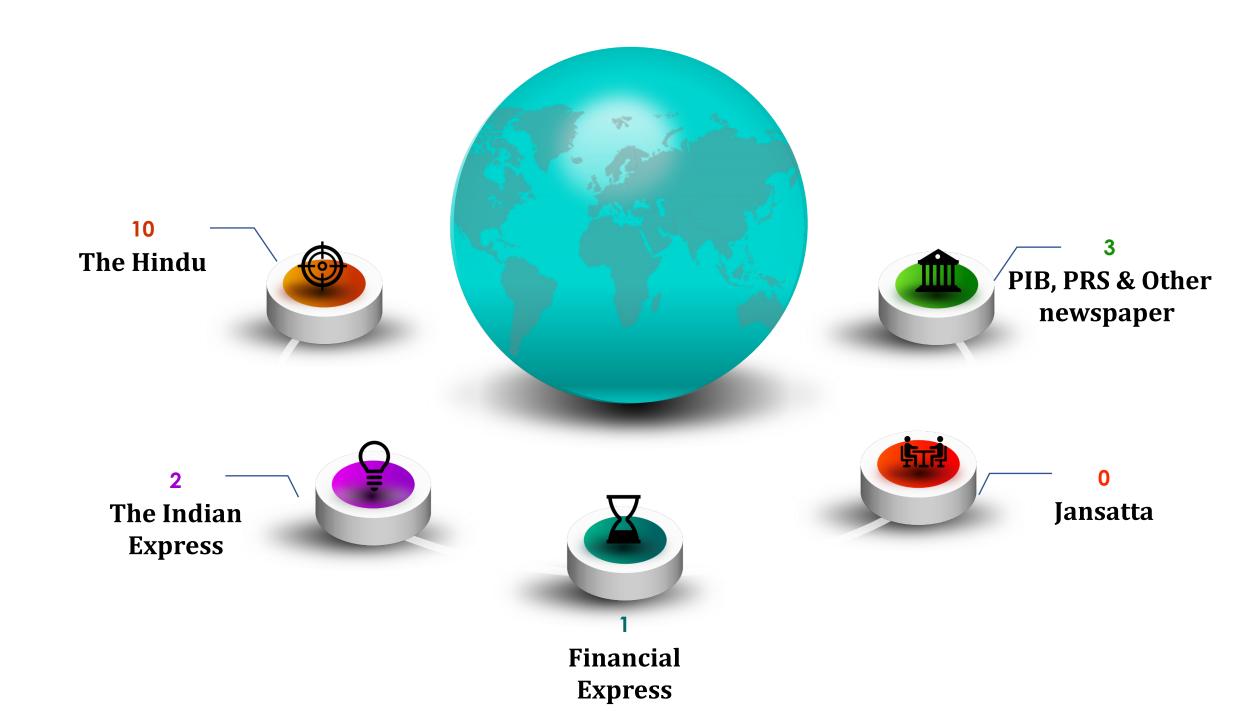












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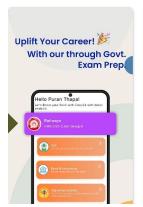
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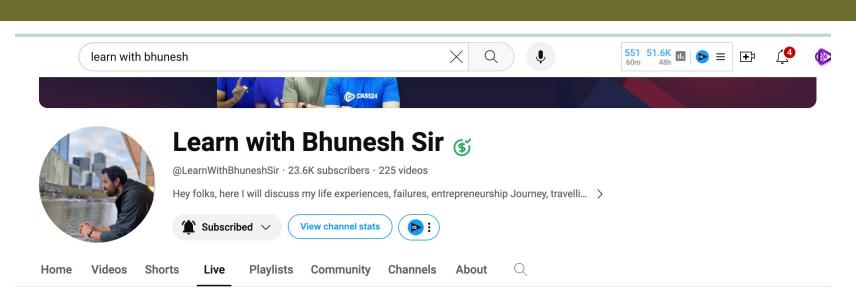








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Nepal earthquake claims 157 lives in remote regions

The 6.4 magnitude temblor, worst to hit the country since 2015, destroys many houses in the mountainous region; at least 160 injured; tremors felt in Kathmandu and New Delhi

t least 157 people were killed and ovwere killed and ov-when a powerful 6.4 mag-nitude earthquake, the worst since 2015, struck Nepal and destroyed hunneds of houses in the Hi-malayan nation's remote mountainous region, offi-cials said on Saturday. The National Earth-

quake Monitoring and Re-search Centre said the earthquake with an epi-centre in Jajarkot district, about 500 km west of Kathmandu, was recorded at 11.47 p.m. on Friday. Friday's earthquake is

the most devastating one in Nepal since the 2015 earthquake that killed nearly 9,000 people and injured more than 22,000.

The impact of the earth-



quake was felt in Kathman-du and surrounding dis-tricts, and even in New Delhi.

The Nepal Army has

cording to Nepal Army spokesperson Krishna Pra-sad Bhandari. Rescue workers on Sa-

mobilised its personnel to carry out rescue work in turday dug through the rubble of collapsed houses

kot and Rukum districts of

Free ration scheme to be extended for five more years: PM

The Union government's scheme to provide 5 kg of free foodgrains every month to 80 crore Indians, which is slated to end this December, will be extended for another five years, Prime Minister Narendra Modi said on Saturday. Mr. Modi made the announce-ment while addressing a

ment while addressing a poll rally in Durg district of Chhattisgarh.

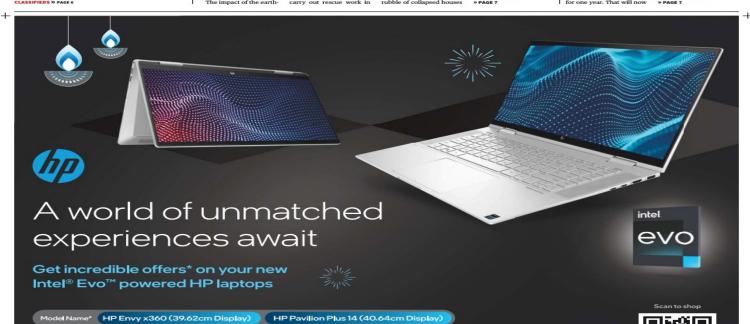
The Pradhan Mantri Ga-rib Kalyan Anna Yojana (PMGKAY) was introduced in 2020 as a pandemic re-lief measure, providing 5 kg of free foodgrains per beneficiary a month in addition to the 5 kg of subsi-dised foodgrains they were entitled to under the Na-tional Food Security Act.

In December 2022, as PMGKAY came to an end after multiple extensions, the Union Cabinet decided to make NFSA rations free for one year. That will now



PM announced.
"Today, I want to tell the poor brothers and sisters of the country from the land of Durg that I have decided that the BJP govern-ment will now extend the scheme of providing free ration to 80 crore poor pe-ople of the country for the next five years," he said. The PM said that his go-vernment had taken 13.5

crore people out of pover-ty across the country and was empowering them.



Nepal earthquake claims 157 lives in remote regions

The 6.4 magnitude temblor, worst to hit the country since 2015, destroys many houses in the mountainous region; at least 160 injured; tremors felt in Kathmandu and New Delhi

Press Trust of India

KATHMANDU

t least 157 people were killed and over 160 injured when a powerful 6.4 magnitude earthquake, the worst since 2015, struck Nepal and destroyed hundreds of houses in the Himalayan nation's remote mountainous region, officials said on Saturday.

The National Earthquake Monitoring and Research Centre said the earthquake with an epicentre in Jajarkot district, about 500 km west of Kathmandu, was recorded at 11.47 p.m. on Friday.

Friday's earthquake is the most devastating one in Nepal since the 2015 earthquake that killed nearly 9,000 people and injured more than 22,000.

The impact of the earth-



Badly hit: Houses damaged in the aftermath of an earthquake at Jajarkot of Nepal, on Saturday. AFP

quake was felt in Kathmandu and surrounding districts, and even in New Delhi.

The Nepal Army has mobilised its personnel to carry out rescue work in the quake-hit areas, according to Nepal Army spokesperson Krishna Prasad Bhandari.

Rescue workers on Saturday dug through the rubble of collapsed houses to find survivors. The Jajarkot and Rukum districts of western Nepal were worst hit by the quake.

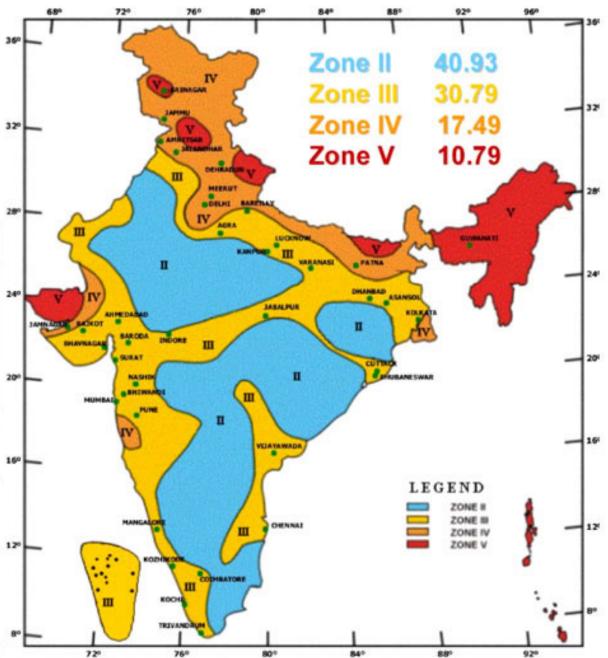
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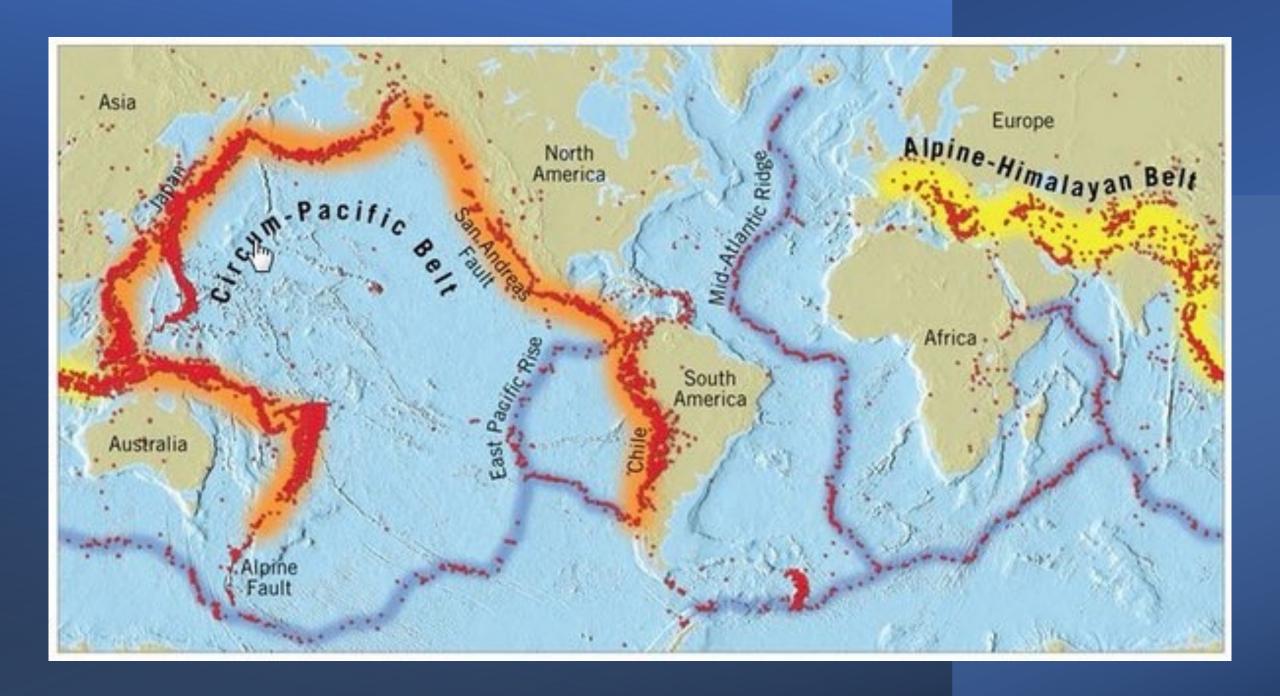
» PAGE 7

Seismic Zone Map of India: -2002

About <u>59 percent</u> of the land area of India is liable to seismic hazard damage

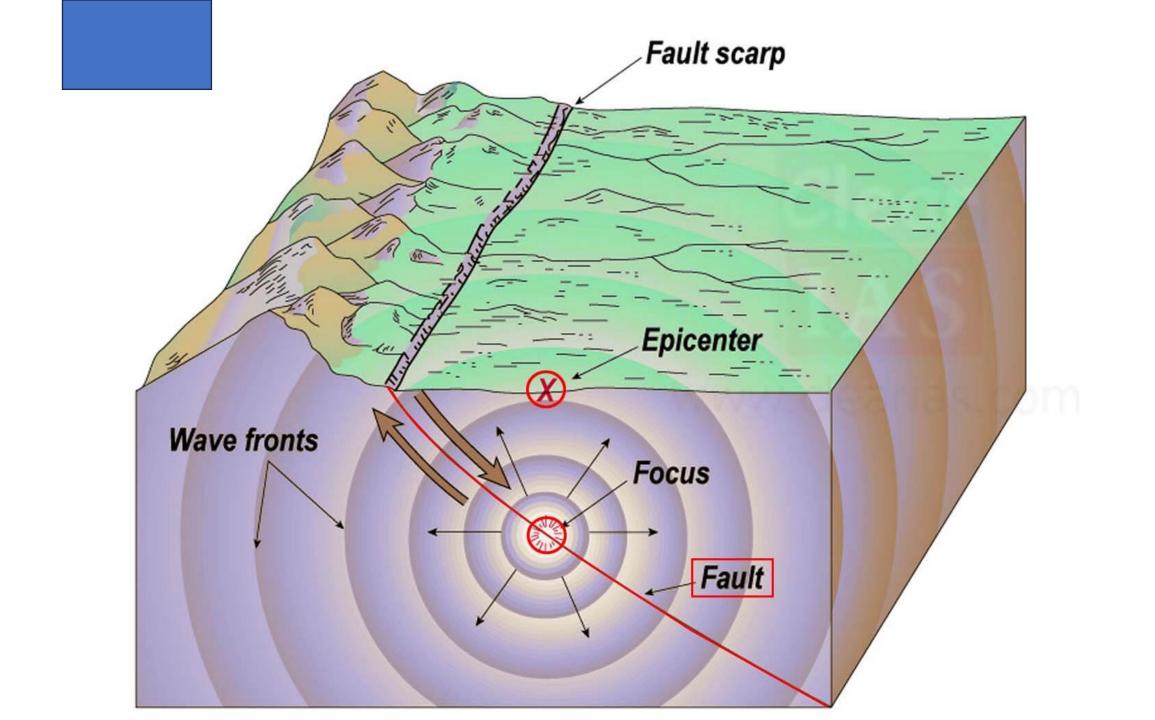
Zone	Intensity		
Zone V	Very High Risk Zone Area liable to shaking Intensity IX (and above)		
Zone IV	High Risk Zone Intensity VIII		
Zone III	Moderate Risk Zone Intensity VII		
Zone II	Low Risk Zone VI (and lower)		





- The earthquake events are scaled either according to the magnitude or intensity of the shock. The magnitude scale is known as the Richter scale.
- The magnitude relates to the energy released during the quake.
 The magnitude is expressed in absolute numbers, 0-10.

• The intensity scale is named after Mercalli, an Italian seismologist. The intensity scale takes into account the visible damage caused by the event. The range of intensity scale is from 1-12.



Body waves

- They are generated due to the release of energy at the focus and move in all directions traveling through the body of the earth. Hence, the name – body waves.
- They travel only through the interior of the earth.

Body waves are faster than surface waves and hence they are the first to be detected on a seismograph.

There are two types of body waves primary waves and secondary waves.

Primary waves (p-waves)

Primary waves are the fastest body waves (twice the speed of s-waves) and are the first to reach during an earthquake.

They are similar to sound waves, i.e., they are longitudinal waves, in which particle movement is in the same direction of wave propagation.

They travel through solid, liquid, and gaseous materials.

They create density differences in the earth material leading to stretching and squeezing.

- Secondary waves (s-waves)
- They arrive at the surface with some time lag after primary waves.
- They are slower than primary waves and can pass only through solid materials.
- This property of s-waves led seismologists to conclude that the earth's outer core is in a liquid state. (the entire zone beyond 105° from the epicenter does not receive S-waves)
- They are transverse waves in which directions of particle movement and wave propagation are perpendicular to each other.

•

Surface Waves

When the body waves interact with surface rocks, a new set of waves is generated called surface waves.

These waves move along the earth's surface.

Surface waves are also transverse waves in which particle movement is perpendicular to the wave propagation.

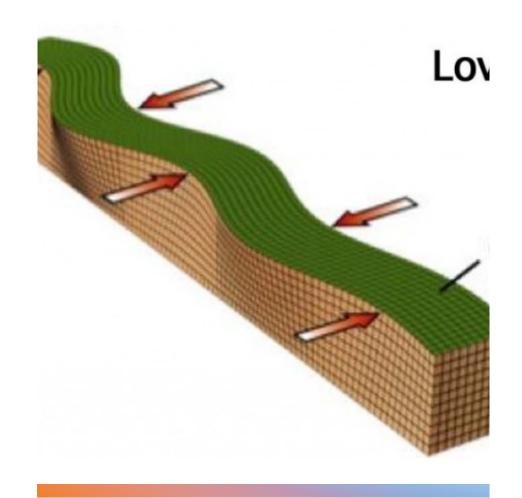
Hence, they create crests and troughs in the material through which they pass.

Surface waves are considered to be the most damaging waves.

Two common surface waves are Love waves and Rayleigh waves.

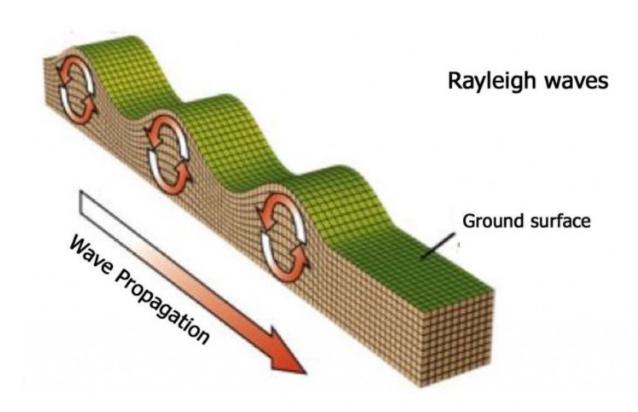
Love waves

- This kind of surface wave causes horizontal shifting of the earth during an earthquake.
- They are much slower than body waves but are faster than Rayleigh.
- They exist only in the presence of a semi-infinite medium overlain by an upper finite thickness.
- Confined to the surface of the crust, Love waves produce entirely horizontal motion.



Rayleigh waves

- These waves follow an elliptical motion.
- A Rayleigh wave rolls along the ground just like a wave rolls across a lake or an ocean.
- Because it rolls, it moves the ground up and down and sideto-side in the same direction that the wave is moving.
- Most of the shaking felt from an earthquake is due to the Rayleigh wave, which can be much larger than the other waves



Free ration scheme to be extended for five more years: PM

Shubhomoy Sikdar RAIPUR

The Union government's scheme to provide 5 kg of free foodgrains every month to 80 crore Indians, which is slated to end this December, will be extended for another five years, Prime Minister Narendra Modi said on Saturday. Mr. Modi made the announcement while addressing a poll rally in Durg district of Chhattisgarh.

The Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY) was introduced in 2020 as a pandemic relief measure, providing 5 kg of free foodgrains per beneficiary a month in addition to the 5 kg of subsidised foodgrains they were entitled to under the National Food Security Act.

In December 2022, as PMGKAY came to an end after multiple extensions, the Union Cabinet decided to make NFSA rations free for one year. That will now



Narendra Modi

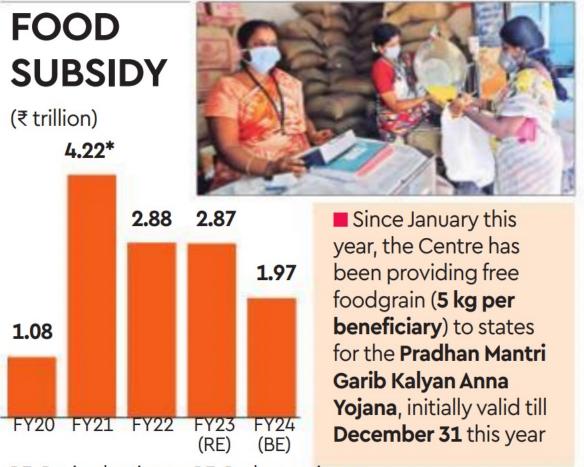
be extended further, the PM announced.

"Today, I want to tell the poor brothers and sisters of the country from the land of Durg that I have decided that the BJP government will now extend the scheme of providing free ration to 80 crore poor people of the country for the next five years," he said.

The PM said that his government had taken 13.5 crore people out of poverty across the country and was empowering them.

CONTINUED ON

» PAGE 7



RE: Revised estimate; BE: Budget estimate

* Includes special provisioning of ₹3.85 trillion for NSSF loans



PRADHAN MANTRI GARIB KALYAN YOJANA (PMGKY)



Initiatives announced under PMGKY aim at alleviating the hardships faced by poor due to economic disruption by Coronavirus

- Free LPG refills to Ujjwala beneficiaries from April to June 2020
- Transfer of Rs 5,606 crore into 7.15 Crore PMUY beneficiaries
- About 85 lakh cylinders delivered so far in April 2020
- 27.87 crore active LPG consumers in the country, with over 8 crore PMUY beneficiaries
- · 50 to 60 lakh cylinders delivered daily during the lockdown period
- Waiting period for cylinders at most of the places is less than two days
- LPG delivery personnel working tirelessly to ensure that clean fuel reaches to the people
- All customers holding an installed LPG connection under PMUY as of 31.03.2020, eligible to get PMGKY benefits

- The Pradhan Mantri Garib Kalyan Yojana (PMGKY) was launched in 2016 with two main objectives: to curb black money and to initiate income equality.
- To achieve the first objective, the PMGKY offered a one-time opportunity for tax evaders to disclose their unaccounted wealth without facing any penalty or prosecution. The government would charge a tax of 49.9% on the disclosed amount.

• The PMGKY was extended in 2020 in response to the COVID-19 pandemic. The pandemic devastated the Indian economy, and the government wanted to provide financial assistance to the poor and vulnerable.

From Page One

Nepal earthquake claims 157 lives

While 105 people were killed in Jajarkot, 52 died in Rukum West, Home Ministry officials said, adding that 166 people were injured in Jajarkot, Rukum West, Dailekh, and Jumla districts. Deputy Mayor Sarita Singh of Nalgadh Municipality in Jajarkot was among those killed in the quake, officials said. was among trose kined in the quake, officials said. The death toll is expected to rise, they said. The Nepal government has announced ₹50 million each for Jajarkot and Rukum districts as imme-

diate relief.

The Home Ministry decided to allocate ₹5.5 million to the disaster relief funds.

India offers help
In a past on X (formerly Twitter), PM Narendra
Modi said he was deeply saddened by the loss of
lives and damage due to the earthquake in Nepal.
"India stands in solidarity with the people of Nepal and is ready to extend all possible assistance,"

he said. The U.S. embassy in Kathmandu said the United States stands ready to assist Nepal as it "recov

Around 159 aftershocks have been recorded fol lowing last night's earthquake, including a 4.2 magnitude tremor at laiarkot on Saturday, the National Earthquake Monitoring and Research Centre reported. Prime Minister Pushpakamal Da-hal 'Prachanda' on Saturday toured the guake-hit

Free ration scheme to be extended: PM Modi

Referring to the poor as the "biggest caste [group] in my country", Mr. Modi alleged that some political parties were dissolving the poison of casteliar in the air, an oblique reference to demands for a caste census made by the Congress and its allies in recent times.

on the sidelines of an event to release the BJP's On the sidelines of an event to release the BP's poll manifesto for Chhattisgarh in Raipur on Fri-day, Union Home Minister Amit Shah had report-edly said that while the BJP had never opposed a caste census, decisions had to be taken after care ful thought, adding that the party refrained from doing politics over the issue.

'Congress abusing OBCs' At the Durg rally, Mr. Modi claimed that the Con-

At the Durg rally, Mr. Modi claimed that the Con-gress was abusing him because he halled from the other backward classes (OBCs), and was also abus-ing the entire OBC community because of him. Without naming former Congress president Ra-hul Gandhi, Mr. Modi recalled the defamation case in which Mr. Gandhi had been convicted for making a remark about the 'Modi' surname during a political rally in 2019. Earlier this year, the

Three days before polls, Maoists kill BJP worker

Shubhomoy Sikdar

dinator for BJP as well as vice president of its Na-rayanpur district unit, is the sixth member of the party to be murdered by al-leged Maoists since the beginning of the year. Ac-cording to the police, around 5.30 p.m. on Saturday, Dubey was attacked by suspected members of the Communist Party of In-dia (Maoists) while he was

dia (Maoists) while he was campaigning for the party. Senior BJP leader and former Chief Minister Ra-man Singh said that the crimes were committed with an intention to in-fluence the outcome of the Assembly polls. State BJP president Allier On acpresident Arun Sao ac-cused the ruling Congress of nurturing Naxalism.

Alleged Maoists stabbed to Alleged Maoists stabbed to death a Bharatiya Janata Party office bearer in Na-rayanpur on Saturday, three days before the sche-duled date for the first phase of polling in the As-sembly election-bound

State. Ratan Dubey, poll coor-

In back-to-back issue. electoral bond sales resume tomorrow

The sales come soon after the Supreme Court's decision to reserve its verdict on the scheme- all authorised SRI branches allowed to sell them

ith five States going to the polls, the Union Finance Ministry on Sabonds from November 6 to 20, the second window for

the sales within a month. With the latest notification, electoral bonds are effectively likely to be on sale for 75 days between Octob er 2023 and May 2024, when the Lok Sabha elec-

'Gleanse the system'
Coming soon after the Su-preme Court's decision to court's decision to electoral bond scheme, the electoral bond scheme, the upcoming sale of these bonds at all authorised branches of the State Bank of India stems from amendments made to the

Last year, the government expanded its ambit to grant itself the power to an-nounce an extra fortnight of electoral bond sales in THE

Individuals can buy electoral bonds on their own or along with others. FILE PHOTO

scheme by the Centre in November 2022.

The upcoming 29th ranche of electoral bond at the control of the contro scheme by the Centre in

elections.

The bonds are valid for 15 calendar days from the date of issuance.

Validity of bonds

years where the States and the Union Territories with

legislatures have elections.

That power was first exer-

cised ahead of the Guiarat

sembly elections late last

Individuals can buy electoral bonds on their

and Himachal Pradesh As

BJP accuses Baghel of receiving hawala money for campaign

The Hindu Bureau

The BIP launched a sharp The BJP launched a sharp attack on Chhattisgarh Chief Minister Bhupesh Baghel on Saturday, accusing him of having received hawaia money from illegal betting operators as kick-back to fund the Congress campaign for the Assembly election.

Irani made these allegations at a press conference at the BJP headquarters here, alleging that "never before in our electoral history had people seen such evidence of such things". The Enforcement Direc-

torate (ED) is probing alle gations against the Chief Minister in connection with the Mahadev betting app scam. "He has playe the game of betting whil

the game of betting while being in power, Ms. Irani said, in a play on the Hindi words for "power" and "betting". Mr. Baghel has, in turn, accused the BJP of using Central investigation agen-cles to target him abead of polling on November 7 and electoral bonds on their own or along with others, and remit them to regis-tered pollitical parties with at least 1% vote share in the Lok Sabha or Assembly

 Ms. Irani responded by saying that the ED's probe was based on the details or investigations by the police in Chhattisgarh and And hra Pradesh, and asked if Mr. Baghel was putting his

Citing the probe, she said that more than \$64 crore worth of protection money was given to auth orities by illegal betting op

On Friday, the ED said a forensic analysis and a statement made by a "cash courier" have led to "star-tling allegations" that the promoters of the Mahadev betting app paid about \$508 crore to the Chhattis-garh CM.

EC must ensure a level playing field: Congress

The Hindu Bureau

The Congress on Saturday urged the Election Commission (EC) to intervene to ensure a level playing field in Chhartisgarh as the on Friday said it was probing allegations that Chief Minister Bhupesh Baghel had received money from the promoters of the Mahade Congress leaders K.C. congress leaders K.C. evenugopal, jairam Ra-The Congress on Saturday

Venugopal, Jairam Ra-mesh, and Abhishek Singhvi said at a press confe-rence that the BJP was misusing the Central agen-

cies during the elections in Chhattisgarh and Rajas-than. They said such steps revealed that the BJP was revealed that the BJP was staring at a defeat in both States. The leaders also did not rule out the possibility of approaching the EC over the "blatant misuse of the Central agencies" when the Model Code of Con-duct is in force.

duct is in force.
Mr. Venugopal said the
ED and the Income Tax Department were the main weapons of the BJP during elections. "We saw in Kar-nataka that during the election itself, they searched more than 100 Congress candidates," he



said. He added that the pu-blic mood in Mizoram, Chhattisgarh, Rajasthan, Madhya Pradesh, and Telangana was in favour of the Congress and the party would form the government in these States. "In both Chhattisgarh and Ra-jasthan, our governments are popular, and the schemes are reaching the schemes are reaching the States. But they (the BjP) have only one target, which is to damage the im-age and reputation of the Chief Ministers of Chhattis-gurh and Rajasthan just said.

Mr. Ramesh said it was vendetta politics and the steps were being taken as the BJP was clearly losing in both States. Mr. Singhvi said it was

ment that initiated action against the Mahadev app. "Chhattiggarh police have registered more than 70 app, arrested more than 450 persons, seized 191 laptops, 865 mobile devices, more than 11.5 crore worth of assets, more than bank accounts with estibank accounts with esti-mated value of t l6 crore, he said, adding that due to jurisdictional limitations, the State government had approached the Centre and its agencies to arrest

SC trains its guns on frivolous PIL petitions

Krishnadas Rajagopal

A heavy dose of "frivolous tioners and the lawyers who put their signature on them, for wasting judicial

The public is paying for

The Chief Justice has lar The Chief Justice has lar-gely been successful in dis-suading pesky PIL peti-tions by asking their cost, which would be for-eited if the case is summa-rily dismissed for lack of Chief Justice's Bench told an insistent PIL litigant to deposit 55 lakh as advance cost. The petitioner beat a Justice Sanlay Kishan Justice Sanlay Kishan

Justice Sanjay Kishan Kaul, on October 30, decided to investigate how advocates-on-record, whose vetting and signa tures are required for peti-tions to be filed in the top court, have become a "mere signing/forwarding

authority".
"Time has come when the court should impose exemplary costs in such fri-volous PILs," the Chief Jus-

Overall air quality in Delhi-NCR improving. **CAQM** report tells SC

Krishnadas Rajagopal NEW DELHI

The Commission for Air Quality Management (CAQM) has given a cheery report to the Supreme Court of targets for a substantial reduction in instances of paddy stubble burning for Punjab, Haryan and Uttar Pradesh in na and Ottar Pracesn in 2023 even as the national capital is smothered in acrid vapour. The State Action Plan

The State Action Plan for Punjab for the year is "zero stubble burning" in six districts of Hoshiarpur, Malerkotla, Pathankot, Malerkotla, Pathankot, Rup Nagar, SAS Nagar and SBS Nagar. The State is tar-geting a 50% reduction in the remaining I7 districts. The total fire counts as of October is 24,202. Last year saw 49,922 fires in the State. In neighbouring Ha-ryana and Uttar Pradesh (National Capital Region), the States had promised "near elimination of paddy stubble burning" from

In the report filed through Additional Solicithrough Additional Solici-tor-General Aishwarya Bhati, the CAQM main-tained that the "overall air quality in Delhi-NCR has witnessed an improving trend since the inception of the Commission". "The key parameters for daily average air quality for Del-



hi for the period between the smog cover belie fi hi for the period between January and September 2023 have been the best in 2023 as compared to the corresponding periods, from 2018 to 2022 (barring the periods of very low an-thropogenic, industrial thropogenic, industrial and commercial activities during the COVID-affected year 2020, owing to com-plete lockdowns)," the re-

Tackling crop residue The report also said the Centre has already dis-bursed ₹3,333.17 crore under the Crop Residue Man-agement (CRM) scheme to tackle crop stubble. Availa-ble data indicate that around 1.17 lakh CRM ma-

the smog cover belie fi-gures in the report, which show that more CRM ma-chines are available this Under the CRM scheme, 50% financial assistance is given to farmers and 80% aid for cooperative socie-ties, farmer producer or-chawats for procuring CRM ganisations and pan-chayats for procuring CRM machinery to rent to needy

farmers. In fact, the report points out that frequent reviews and daily monitoring of fire counts, as per a stan dard protocol developed by the ISRO for the CAQM, saw a serious dip in paddy stubble burning between September 15 and October around 1.17 lakh CRM ma-chines are available in Puu-jab, 80,071 in Haryama am Fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than the 90,422, 72,777 and fradesh. This is more than f

Video of tribal man who was found dead on July 2 emerges in Manipur

A video of a 31-year-old tribal man, which was made shortly before he was beheaded and set ablaze on headed and set ablaze on the boundary of Chura-chandpur and Bishnupur districts of Manipur on July 2, emerged on social media on Saturday. A police offi-cial said they were analys-ing the video and that no arrests had been made in the case so far.

In the video clip, the man, identified as David Fuolor, is seen being

slapped and asked about his ethnic identity. A group of men wearing black clothes and camouflage trousers asks if he belongs to the Hmar community. The faces of the men are not visible.

When Tuolor replies that he grew up among the Kom community, he is slapped and asked again if he is a Hmar, to which he replies in the affirmative.
The same day Tuolor
was found murdered in his village, Chinglangmei, in Churachandpur. The se-vered head was put on diswith the National Human Rights Commission, a group of men, suspected to be members of the vigi-lante groups Aarambai Tenggol and Meitei Lee-Tenggol and Meitel Lee-pun, led by the police reached Chinglangmei and started looking for Kuki-Zomi-Hmar people. Tuo-lor, who was home, was

play on a bamboo fence and the body burnt. According to a com-plaint filed on August 1 by his father, Lalkhumlien, with the National Human

Three Meitei men were also killed on the same day, The Hindu had reported. Heisnam Balram Singh, Superintendent of Police, Bishnupur, had said that Bisniupur, nad said that on July 2, bunkers set up by the villagers near Khujuma Tabi, a Meitei village, were attacked by armed mis-creants. He said following creants. He said following the incident, a large num-ber of people stormed the nearby Kuki-Zo villages in Churachandpur district. The Indigenous Tribal

ISRO chief withdraws memoir after controversy

Somanath, Chairman Indian Space Research Or-ganisation (ISRO), said on Saturday that he was withdrawing the publication of his Malavalam memoir, Nilavu Kudicha Simhangai (loosely translated as "The ions that drank the m

light'). The decision followed a The decision followed a report in the Malayala Manorama on Saturday that quoted excerpts from the book suggesting that K. Sivan, former ISRO Chairman and Mr. Somanath's immediate predecessor, may have hindered key propositions that Mr. Somanath's propositions that promotions that Mr. Soma-

nath thought were due. Speaking to The Hindu, Mr. Somanath said: "There has been some misinter pretation. At no point have I said that Dr. Sivan tried to prevent me from becom ing the Chairman. All I said was that being made a was that being made a member of the Space Com-mission is generally seen as a stepping stone to (ISRO's chairmanship). However, a director from another [IS-RO centre] was placed, so naturally that trimmed my chances [at chairman-ship)."

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ship]."
"Secondly the book isn't officially released. My pu-blisher may have released a few copies... but after all



nal challenges he faced in his journey of becoming a space technologist and in executing the Chandrayaan missions. "It was not to create contro On Chandravaan-2

which The Hindu has viewed, do bring out Mr. Somanath's discomfort cided to withhold publication." he said. A spokespertion he said. A spokespertion with the "Chairman's IDr.
Swan's "decision not to be
for the failure of the Chairman's threat it was withdrawing the
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for the failure of the Chairman that it was a ware glitch but was public
by communicated as an
'inability to communicate
with the lander".

was originally scheduled for July 15, 2019, with then President Ramnath Kovind in attendance. The launch

snag". "That a software glitch "That a software glitch was at fault was known only subsequently... I believe failure happens should be transparently communicated. I'm not criticiaing Dr. Sivan though," said Mr. He said that he was in "constant touch" with Dr. Sivan as the latter continued to be an adviser to for future missions.

for future missions

ISRO chief withdraws memoir after controversy

Jacob Koshy

NEW DELHI

S. Somanath, Chairman, Indian Space Research Organisation (ISRO), said on Saturday that he was withdrawing the publication of his Malayalam memoir, *Nilavu Kudicha Simhangal* (loosely translated as 'The lions that drank the moonlight').

The decision followed a report in the *Malayala Manorama* on Saturday that quoted excerpts from the book suggesting that K. Sivan, former ISRO Chairman and Mr. Somanath's immediate predecessor, may have hindered key promotions that Mr. Soma-

nath thought were due.

Speaking to *The Hindu*, Mr. Somanath said: "There has been some misinterpretation. At no point have I said that Dr. Sivan tried to prevent me from becoming the Chairman. All I said was that being made a member of the Space Commission is generally seen as a stepping stone to [ISRO's chairmanship]. However, a director from another [IS-RO centre] was placed, so naturally that trimmed my chances [at chairmanship]."

"Secondly the book isn't officially released. My publisher may have released a few copies... but after all this controversy, I have de-



S. Somanath

cided to withhold publication," he said. A spokesperson for Lipi Books, the Kozhikode-based publisher, confirmed to *The Hindu* that it was withdrawing the publication.

Mr. Somanath said the purpose of writing the book was to write a motivational story, on the perso-

nal challenges he faced in his journey of becoming a space technologist and in executing the Chandrayaan missions. "It was not to create controversy."

On Chandrayaan-2

Excerpts from the book, which The Hindu has viewed, do bring out Mr. Somanath's discomfort with the "Chairman's [Dr. Sivan's l' decision not to be explicit about the reasons for the failure of the Chandrayaan-2 mission [which was expected to land a rover]. The issue was a software glitch but was publicly communicated as an "inability to communicate with the lander".

Chandrayaan-2 mission was originally scheduled for July 15, 2019, with then President Ramnath Kovind in attendance. The launch was called off an hour ahead, due to a "technical snag".

"That a software glitch was at fault was known only subsequently... I believe that whatever success or failure happens should be transparently communicated. I'm not criticising Dr. Sivan though," said Mr. Somanath.

He said that he was in "constant touch" with Dr. Sivan as the latter continued to be an adviser to the ISRO and gave inputs for future missions.

Indian Space Research Organisation



Agency overview

ISRO Abbreviation

15 August 1969; 54 years **Formed**

ago

Preceding agency INCOSPAR (1962-1969)

Type Space agency

Jurisdiction Department of Space

Bangalore, Karnataka, Headquarters

India

(a) 13°2′7″N 77°34′16″E

Chairman Sreedhara Somanath

Primary SDSC · TERLS

spaceports

Government of India Owner

Employees 16,786 (2022)

citation needed

• ISRO was previously known as the Indian National Committee for Space Research (INCOSPAR), set up under Jawaharlal Nehru on the suggestions of Vikram Sarabhai in 1962 recognising the need for space research. INCOSPAR grew and became ISRO in 1969, within the Department of Atomic Energy (DAE).



ISRO built India's first satellite, Aryabhata, which was launched by the Soviet space agency Interkosmos in 1975.

In 1980, ISRO launched satellite RS-1 onboard SLV-3, making India the seventh country to be capable of undertaking orbital launches

IN BRIDE



Raj Bhavan opens doors for fans to watch today's match

As grievances continued over the unavailability of tickets for the World Cup clash between India and South Africa at Eden Gardens on Sunday, the Rai Bhavan in Kolkata located next to the iconic Raj Bhavan in Kolkata located next to the iconic cricket stanklum opened its doors for cricket fans who are unable to get the tickets for the cricket match. "The Raj Bhavan will open its doors to the print of the Raj Bhavan will open its doors to the print. The watch the World Cap Cricket March. 500 people will be admitted on a first-come, first-served basis to watch the match till the end on the lawns of the Raj Bhavan," a press statement from the Raj Bhavan said. People who want to watch the cricket match will have to bring in government identity cards such as Aadhaar and mail the documents to aamnesaamne.rajbhavankolkata@gmail.com.

JD(U) chief asks BJP to prove Modi belongs to EBC group

Janata Dal(U) president Rajiv Ranjan Singh, aka Lalan Singh, on Sasturday slammed Prime Mulister Karenda Modi by calling him rimed. Milster Karenda Modi by calling him to easid that Mr. Modi does not belong to the Extremely Backward Class (BEC) or even Backward Class (BEC) or Modi belongs to the EBC. The community which he belongs to was made part of the Backward Class in Gujarat in 2000 when Atal Bihari Vajpayee was the Prime Minister of the country. How can be be EBC"? he asked.

Fire in Raigad factory: eight bodies recovered, says NDRF

Eight bodies have been recovered till Saturday pharmaceutical company in Raigad district of Maharashtra a day ago, while search for three missing persons continued, an NDRF official said missing persons continued, an NDRF official said. However, the Raigad police, in a release, put the obtained from the kin of the II persons, who were declared missing immediately after the blaze, for identification purposes through DND continued to the purposes through DND Mahad, some I70 kilometres from Mumbal, started at II a.m. on Friday, the National Disaster Response Force official added. **n

Former U.P. MLA Vijay Mishra convicted in rape case

A Bhadohi court in Uttar Pradesh on Saturday sentenced former MLA Vijay Mishra to a 15-year prison term in a rape case. The court held the former MLA guilty under Section 376-2(N) (commits rape repeatedly on the same woman) and criminal intimidation of the IPC. Until now, he has been convicted in three cases, The matter dates back to October 2020, when the victim filed a complaint alleging that in 2014, the former MLA called her to perform at a programme at his house and raped her. Mishra had won Assembly elections in 2002, 2007, 2012 and 2017.

SUDOKU



'Some traders are taking advantage of seasonal change in onion supply'

Union Consumer Affairs Secretary says export curbs and other recent measures are stabilising onion prices, though pulses remain expensive; he says the curbs won't impact rural economy and purchasing capacity of farmers; and all ingredients for making Deepavali sweets are available in plenty

INTERVIEW

Rohit Kumar

head of the festival season and As-sembly elections in A sembly elections in five States, the rising prices of several essential items are creating a headache for BJP-ruled governments. For instance, onion prices, government data show, are more than double last

year's rates. The Union government has taken several steps to combat this, including export curbs on onions, food-

grains and sugar. Union Consumer Affairs Secretary Rohit Kumar Singh maintains a watch on the prices of almost all essential grocery items, ve-getables and milk products getables and milk products daily through the price monitoring cell of his Mi-nistry. Mr. Singh says that recent measures have started showing results and prices are becoming more stable. Edited ex-cerpts:

Onion prices have increased again. What are the reasons for this, and what steps have you

prices minus our exports of onions. Export is driven international deman which is mostly from cou tries such as Bangladesh Sri Lanka, Malaysia, Qatar Sri Lanka, Malaysia, Qutar; and Indonesia. Production has been good, but onion is a perishable item. 70% of season and 30% from kha-season and 30% from kha-lonions beyond four to five months. The bland harvest supply comes down in these months take advan-these months take advan-titude of the season and the supply comes down in these months take advan-tible production in this supply comes to the season and the supply comes down in the season and the supply comes down in the season and the supply comes down in the season and the season and the supply comes down in the season and the season and the supply comes down in the season and the season and the supply comes down in the season and the season and the supply comes down in the season and the season and the season and the season and the supply comes down in the season and the sea

little period. It is not just demand and supply, it is al-so manipulation by trad-ers. Not all traders are bad, but some are taking advantage of this situation. It is not hoarding, it is speculation - spreading news of shortage. There is no in-

ing.
To check this, we in-To check this, we in-creased the buffer stock of onions to five lakh metric connes. If the government the market will be very wa-ry. it will also help the farmers to get the best price. We intervened in both retail and wholesale markets. We check the prices at 550 locations on a daily basis. This database reflects the entire country.

On the retail front, we are selling onions at around a thousand points in 100 ci-ties across the country at a rate of about ₹25 a kilo-

gram.
These measures have an impact on the prices. The prices started going up in mid-October and one reason was excess exports to Bangladesh. We checked that by imposing 40% ex-port duty, but it was not port duty, but it was not working. Then, we imple-mented a minimum export price by making onion trade unviable in the coun-tries where exports were taking place.

The Centre has been maintaining that controlling prices of tomatoes, onions and potatoes (TOP) is a 'top' priority. But critics say this policy has failed.

nothing to do with policies. It is how these commodi-ties behave and it is how they are produced at diffe-rent sub-geographies in the country at different points in time, and how is the perishability of these

commodities. A sudden variation in terms of rains are suscepti-ble to these crops. But we are intervening through market intervention scheme to procure these

scheme to procure unapproducts.

Also, when the prices go high — up to £200 a kilogram for tomatoes, it was unprecedented, and we intervened by picking up the transportation cost.

There are concerns about the prices of wheat, rice, pulses, and edible oils. How do you

We have taken adequate care to stop hoarding of foodgrains. There are stock limits on wheat, pulses, and other commodities.

Edible oil is dependent on imports, Now, internaon imports. Now, Interna-tional prices are down and it is helping the consum-ers. If prices crash too incentivised. So we are try-ing to bring a balance be-tween the interests of farm-consumers. Secretaries of four Departments (Agricul-ture, Commerce, Food and Consumer Affairs) meet ev-taprice, to ensure this ba-lance.

On pulses, there is a little concern on the prices of tur dal. Last year, produc-tion was less and there is a gap between consumption and production. So we had to import tur from Myan-mar and East African countries.We are getting sup-plies, but prices are high though not increasing. We

Deepavali is a festival of sweets too. After the lumpy skin disease outbreak among cattle, there was an issue of vision wills myster, and o rising milk prices, and a decrease in the

ghee, and butter. Sugar also faces import

There is absolutely no con cern about the availability of milk, ghee, butter, and sugar. For example, for making laddus, we have chickpea available in ex-cess. Ghee is available and agar is also available

purchasing capacity of farmers?

Absolutely not. Govern ments will have to priori tise domestic consump tion. Exports can be done only after satisfying the lo cal environment. We have trade relations and export trade relations and export commitments, but only if products are available. Availability and affordabili-ty is the fundamental prin-ciple of the government. Domestic supplies are primary. Farmers are not selling it in distress. They are getting reasonable pricsening it massives in the prices and profit. But they are not making a killing, which is probably possible because of the conflicts.

They may not get that undue benefit because of

the government's ap-proach of protecting the

IL-38s that heralded long-range surveillance for Navy fly into sunset

Dinakar Peri

"A journey that com-menced on October 1, 1970," the Indian Naval Air Squa-dron (INAS) 315 at Goa, ends with the de-induction commander of the Commander Commander of the Commander Ghosh, Commanding Offic-er of the Winged Stallions squadron, addressing squadron, addressing members of the commissioning crew and numer ous others who gathered along with their families for the de-induction ceremony at INS Hansa last week. Cheers erupted from the crowd while seviscing their long asso-



Navy Chief Admiral R. Hari Kumar and other officers and veterans after the last flight of IL-38 in Goa. DINAKAR PERI

ciation with the aircraft that served for 46 years. that served for 46 years.
The IL-38 Sea Dragon
heralded long-range maritime surveillance for the
force and now the Navy
has Dorniers at the lower end and the P-8Is at the higher end of surveillance and is looking to induct C-295 aircraft in the medium-range maritime patrol aircraft (MPA) role in the

unmanned aerial vehicles.
"The aircraft (IL-38) ha
laid the foundation fo laid the foundation for long-range patrol as well as anti-submarine warfare (ASW) for the Indian Navy. It has good electronic intel-ligence, signal Intelligence and sensor capability. We used the aircraft in all ma-tor operations and exercise jor operations and exercis-es... Over a period of time it gets difficult to maintain the aircraft, and its coming to the end of its service life Old has to give way to new," the Navy chief, Ad-miral R. Hari Kumar, said. The glorious journey of Winged Stallions showcases the focused efforts of all Stallions present in Panaji today Cdr Ghosh said

Railway and defence trade unions to hold vote to go on strike

Almost 50 years after the 20-day railway workers' strike in 1974 that shook the Indira Gandhi govern-ment, rampant prepara-tions are under way for another indefinite strike in the sector demanding re-placing the National re-placing the National replacing the National Pen-sion Scheme with the Old Pension Scheme. Trade unions will hold a secret ballot on November 20 and 21 among 12 lakh Railway employees and 3.9 lakh ci-villan workers at defence establishments such as ordnance factories seeking

The Joint Forum for Restoration of Old Pension Scheme, a platform of 60 unions in Central gublic ments and Central public ganising the ballot. The RSS-affiliated Bharatiya Mazdoor Sangh backs the demand for the OPS. "We are demanding not give any call to participation of give any call to participation."

not give any call to partici-pate in the ballot, but we will not oppose it," BMS general secretary Ravindra Himte said.

The ballot will be valid if 75% members participate. The strike can be called if two-third of the votes are

Enemy property' Butler Palace to turn into a tourist haven

Lucknow's once-grand three-storey Butler Palace, left deserted and in darkness for many decades, will see a facelift. Local people believe the house, built a century ago, in a mix of Rajasthani and In-do-Mughal styles, is do-Mughal styles, is 'haunted'. Neighbours say the palace has been stripped off its brass and

the palace has been stripped off its brass and other saleable parts by the palace of the parts by the palace, originally but the police deny this. The palace, originally dence of the Commissioner of Awadh, Harcourt Butler, in 1915, was owned by the palace, or the palace, or the palace, in the Commissioner of the palace, in 1915, was owned by the palace of the pala current Lucknow, in the 16th century, and owed al-legiance to the Mughals. Mohammed Amir Ahmad Khan, the king at the time hammad Khan, stayed on in India as a citizen, fighting a legal battle over several properties, including Butler Palace.

After the India-Pakistan war in 1965. Butler Palace was declared "enemy pro perty" by the Government of India. The Enemy Pro of India. The Enemy Pro-perty Act, 1968, which came later, made the stand more binding. This is one of the 361 "enemy proper-ties" in Lucknow alone, say ties" in Lucknow alone, say authorities, with many ori-ginally belonging to the Mahmudabad family. It was only last month, ho-wever, that the Lucknow Development Authority (LDA) got the go-ahead to some up, the place for spruce up the place for tourism. "We have re-ceived the no-objection certificate from the Custo-dian of Enemy Property Department [under the Union government], three weeks ago. We will start



the renovation of the build-ing soon," Indramani Tri-pathi, Vice-Chairperson of the LDA, said.

The authorities are re-juvenating the Butler lake, for which the LDA already had the rights, by con-structing pathways along the perimeter, landscap-ing, lighting, and starting a

authority plans to renovate and strengthen Butler House and construct a musical fountain in front. Up to 55 crore each has been allocated for work on the palace and the lake, he said. "We will complete the project in roughly four months. It will serve as a tourist place along with a heritage look," he added.

We have received the no-objection certificate Enemy Property Department funder the Centre], three weeks ago INDRAMANI TRIPATHI Vice-Chairperson of the LDA

After being declared After being declared enemy property in the banks, the property in the banks of the control of the property of the little property of the

Legal battle Mohammad Amir Moham-mad Khan died last month four-decade-long court battle against the Union of India and got a brief respite

an enemy as defined by the Act. However, in 2010, the Union government brought in an Ordinance to amend the Act, subse-

quently passed by Parlia-ment in 2017, bringing sucthe case in the Suprer Court over properties that include Butler Palace.

include Butler Palace.
"We have no comments
to make, the matter is subjudice in the Supreme
indice in the su After Independence, sever al political leaders have staved there

IL-38s that heralded long-range surveillance for Navy fly into sunset

Dinakar Peri

PANAJI

"A journey that commenced on October 1, 1977, with the commissioning of the Indian Naval Air Squadron (INAS) 315 at Goa, ends with the de-induction of the IL-38 today," said Commander Mrinmoy Ghosh, Commanding Officer of the Winged Stallions addressing squadron, members of the commissioning crew and numerous others who gathered along with their families for the de-induction ceremony at INS Hansa last week. Cheers erupted from the crowd while several became emotional reminiscing their long asso-



Navy Chief Admiral R. Hari Kumar and other officers and veterans after the last flight of IL-38 in Goa. DINAKAR PERI

ciation with the aircraft that served for 46 years.

The IL-38 Sea Dragon heralded long-range maritime surveillance for the force and now the Navy has Dorniers at the lower end and the P-8Is at the higher end of surveillance and is looking to induct C-295 aircraft in the medium-range maritime patrol aircraft (MPA) role in the future, in addition to adding more long-endurance unmanned aerial vehicles.

"The aircraft (IL-38) has laid the foundation for long-range patrol as well as anti-submarine warfare (ASW) for the Indian Navy. It has good electronic intelligence, signal Intelligence and sensor capability. We used the aircraft in all major operations and exercises... Over a period of time it gets difficult to maintain the aircraft, and its coming to the end of its service life. Old has to give way to new," the Navy chief, Admiral R. Hari Kumar, said.

The glorious journey of Winged Stallions showcases the focused efforts of all Stallions present in Panaji today, Cdr. Ghosh said



Striker Javier Hernandez departs LA Galaxy

Former Manchester United and Real Madrid series parties that are the remainer, right in extra parties that are the remainer of the following the remainer of the following the remainer of the

Dimitrov holds off Tsitsipas to reach Paris Masters final

Bulgaria's Grigor Dimitrov kept up his late-season charge by squeezing past Stefanos Tsitsipas of Greece 7-5, 6-7(3), 6-4 on Saturday and into the final of the Paris Masters.

The results: Quarterfinals: Djokovic bt Rune 7-5, 6-7(3), 6-6; Rublev bt De Minaur 4-6, 6-3, 6-1; Dimitrov bt Hurkacz 6-1, 4-6, 6-4; Taltspas bt Khachanov 6-3, 6-4.

Bopanna and Ebden pair one match away from the title

nohan Bopsanna and Matthew Ebden defeated Harri Helbowana and Mate Paytic 6-7(3, 6-4, 110-6) in the doubles semifinals of the 66,748,818 ATP Masters tennis tournament in Paris on Saturday. Heliovaara and Paytic had beaten the top seeds Ivan Dodig and Ausstin Krajicek in straight sets in

Other results: €73,000 Challenger, Ismaning, Germany Doubles (semifinals): Constantin Frantzen & Hendri Jebens (Ger) bt Anirudh Chandrasekar & Vijay Sundar Prashanth 6-3, 7-6(4).

+ India beats Pakistan to win bronze

Goalkeeper H.S. Mohith made a crucial save in the penalty shootout as the India junior hockers be penalty shootout as the India junior hockers be provided in the Salan of Johor Cup, in Johor Bahru on Saturday. The regulation time ended (Ith), Poovanna CB (42th) and captain Uttam Singh (52nd) securing for India, while Sufyan Khan Hannan (57th) finding the net for Padsitan. The penalty shootout went all the way to sudden death and Mohith tackled Hannan perfectly to

LIVE TELECAST

NRA: Sports 18-1 (SD & HD) & Lin Cinema App. 6-30 a.m.

2 p.m. Sorts 38-1 (SD & HD) & Jio Cinema App, 5, 7.30, 10.30 p.m. & 1.15 a.m. (Monday) Badminton: Hjo Open, Sports 18-1 (SD & HD) & Jio Cinema App, 6.30 p.m. Latigas Sports 18-1 (SD & HD) & Jio Cinema App, 6.30 p.m. Latigas Sports 18-1 (SD & HD) & Jio Cinema App, 6.30, 8.45, 11 p.m. & 1.30 a.m. (Monday) Tennic Paris Masters, Sorty Sports Ten 2 (SD & HD) & LiV, 7 Tennic Paris Masters, Sorty Sports Ten 2 (SD & HD) & LiV, 7

Premier League: SS Select 1, 2 (SD & HD) & Hotstar, 7.30 &

Bundestiga: Somy LIV, 8 & 10 p.m. ISL: Sports 18-1 (SD & HD) & Jio Cinema App, 8 p.m.

Hockey: Women's Asian Champions Trophy, Sony Sports Ten 5 (SD & HD) & LIV, 8.30 p.m. Formula One: Sao Paulo GP, F1 TV & F1 TV Pro App, 10.30

Abhishek and Mandeep power Punjab past Delhi

Chasing 184, the two add 102 off just 58 deliveries to guide the team home with eight balls to spare. pacer Abhimanyusingh's four-for, including Parag's wicket, turns the tide in Baroda's favour

Sahil Mathur MOHALI

he cheers in the Pumjab dug-out grew louder with each stroke off Abhishek Sharma and Mandeep Singh's bats as the duo powered the team into the fi-nal of the Syed Mushtaq Ali Trophy with a six-wicket win over Delhi at the PCA IS Bindra Stadium on Sa

rday. Abhishek's 77 and Man-Abhishek's 77 and Man-deep's unbeaten 63 had the small crowd on its feet as Punjab chased down the 184-run target with eight balls to spare.

A cover drive for four got Abhishek going, but the situation was such that crumspect after losines three

cumspect after losing three partners inside the Power-Play. However, he shifted gears when took on Suyash Sharma – who had been impressive for Delhi in the tournament - and hit him for a six and four off the first two deliveries of his

with Suyash leaking runs, captain Yash Dhull had to turn to part-time bowlers like Ayush Badoni to fill in. Abhishek and Mandeep found the fence regularly during their 102-



run stand off 58 balls. Mandeep smashed Pradeep Sangwan for 21 runs in the 15th over as Punjab cruised

Earlier, Badoni's 80 off 57 balls was the highlight as Delhi scored 183 for seven after being put in to bat on a slow wicket. It didn't prove enough once Abh-ishek and Mandeep got

going. The second semifinal The second semifinal took a dramatic turn in the 12th over when Baroda pacer Abhimanyusingh Rajput had Assam's Riyan Parag caught at deep mid-

rookie Oscar Piastri had al-ready skidded off onto the

grass, triggering yellow flags. With the rain expect-

ed imminently, Verstappen overtook the Mercedes of last year's winner George

Russell as they exited the pit lane. Leclerc was 0.294

The governing FIA stopped the clock with four minutes remaining

and said the session would not be re-started. Mer-cedes' Lewis Hamilton and

Russell filled the third row, with McLaren's Lando Nor-

with McLaren's Lando Nor-ris seventh and Ferrari's Carlos Sainz eighth and Red Bull's Sergio Perez ninth. Perez was forced to slow on his lap after Piastri

wicket. Krunal Pandya's side then took control as Abhimanyusingh's four-for restricted the opponent to

In reply, openers Ninad Rathva (44) and Jyotsnil Singh (37) showed compo sure even as the super sop-pers and the ropes were brought into play between overs due to the dew.

overs due to the dew.

The two added Si off 41 balls, with Rathva being the aggressor. His runs came off just 26 balls and he perished when he was caught in the deep trying to hit his second six.

| Tanishq and

Shatakshika

emerge the

Jyotsnil, however, pushed Assam on to the backfoot, hitting three six-es and a four off Parag's first four balls of the game as Baroda won by six wick-ets with 23 balls to spare.

The scores: Delhi 183/T in 20 overs (Anul) Rawat 34, Ayush Badoni 80 n Siddharth Kaul 3/27) lost to Punjab 184/4 in 18.4 overs

(Abhishek Sharma 77, Mandeep Singh 63 n.o.). Assam 143 in 20 overs (Rishav Das 48, Denish Das 32, Abhimanyusingh Rajput 4/29) lost to Baroda 146/4 in 16.1 overs (Jyotsnil Singh 37, Ninad Rathva

Blasters pips East Bengal in a thriller

Amitabha Das Sharma KOLKATA

Kerala Blasters continued its winning form in its away venture to beat East Bengal 2-1 in an 1SL-10 fixture here at the Salt Lake Stadium on Saturday. Daistuke Sakai and Dimitrios Diamanta-kos struck once in each half for Blasters while Cal-bal for Blasters while Cal-peratives of the control of the con-pensities earlier, in the prenalties earlier, in the penalties earlier in the game, struck from the spot late in injury time to pull one back for the host.

KBFC ended the game with 10 men after Diamantakos was ejected in the 89th minute when he received his second booking for removing his shirt after scoring the goal.

Kerala Blasters was re-arded for it when Sakai put the visitor in the lead. Blasters launched a speedy

sukhan Singh Gill.

East Bengal had a few chances to equalize in the second half, where it second half, where it played really well. But the goal never came its way even between the 85rd and 85th minutes when Blas-ters goalkeeper Sachin Su-resh denied Cleiton twice when the Brazilian forward had two channes to score Streethy, for the same was

Suresh's first save was invalidated as he moved out of the line before the shot. But he showed the shot. But he showed the right anticipation once again to stop Cleiton as he retook the penalty. Diathe Blasters. Cleiton finally got his good, from the spot yet again in the 90-7 minute, but seemed to come a bit too late for East Bengal.

The results: At Kolkata: EBFC 1



Verstappen claims pole in qualifying



Red Bull's triple Formula One world champion Max Verstappen beat the weather as well as his rivals to secure pole position for the Sao Paulo Grand Prix in a qualifying session halt-ed by 'insane' conditions at Interlagos on Friday.

Ferrari's Charles Leclerc joined Verstappen on the front row with Aston Martin's Lance Stroll and Fer nando Alonso third and fourth. Verstappen was quick out of the pits as storm clouds loomed, get-

Sports Bureau

Tanishq Jadhav and Sha-takshika Sahavak takshika Sahayak emerged the boys and girls champions in the Al-TA National series junior tennis tournament at the Singha Sports Academy in John Hors

Top seed Tanishq got a walkover from second seed Rishi Vandhan Sa-deeshkumar in the final. Fifth seed Shatakshika beat Mahalakshmi Kunbeat Mahalakshmi Kun-chala for the loss of two games in the girls' title clash.

The results: U-18: Boys: Final: Tanishq Jadhav w/o Rishi Vandhan Sadeesh Kumar.

Semifinals: Tanishg bt Shivam Semiifinals: Tanishq bt Shivam Deviam 6-2, 6-4; Rishi Vandhan bt Jatin Nain 6-1, 6-3. Doubles: Finalt Tanishq & Rishi bt Sahajpreet Bajwa & Paramweer Singh 6-4, 6-2. Girla: Finalt Shataichika Sahayak bt Mahalakshmi Sanayak Dt Manai Kunchala 6-1, 6-1 Semifinals: Mahalakshmi bt Radha Sadhra 5-7, 6-2, 6-3; Shatakshika bt Manshi Singh 4-6, 6-4, 6-2.

champions

Stan Rayan

The long season may have worn him out but Olym-pian Srihari Natrag still fin-ished the 37th National Games with eight golds, in-cluding four in the relays, at the Campal Sports Com-plex on Saturday.

The final day's action pitted Srihari against the seasoned Virdhawal Khade, the Games fastest Khade, the Games fastest man, in the IOOm freestyle but the Bangalore young-ster had a good start and increased his lead at the turn to better his own meet

"Quite a long year, ups and downs but it was good. Going into the National Games, I didn't really in-Games, I didn't really in-tend to get back to full training and I wasn't really sure what to expect but the goal was to help Karnataka to a few golds," Srihari, the swimmer with the maxi-mum individual golds here (four), told The Hindu.

golds: Dhinidhi and Harshitha swim to new meet marks



Srihari ends season with eight

Rested and ready

Rested and ready
"Tm going to take some
time off after this, give my
body and mind some reat
the state of the state of the
training...fix my stroke to
get back my balance. The
goal is to qualify for the
(2024) Olympics by MarchApril and train for Paris."
day's events threw un

breaststroke) were the oth-ers to break them in indivi-dual events



Record-setters: Harshitha set a new mark in 100m breaststroke, while Dhinidhi overhauled the 100m freestyle re

day's events threw up Games records and Karna-taka's Dhinidhi Desinghu (100m free) and Kerala's Harshitha Jayaram (100m

"I would say the 100m free was my most satisfying event, given the fact that

this is the end of the season many times and I got th record," said 13-year-old

The results (winners only): Swimming: Men: 100m freestyle: Srihari Nataraj (Kar) 49.97s (MR, Old: 50.41, own); 100m backstroke: S.P. Likith 1002.25s.

Women: 100m freestyle women: 100m freestyle: Dhinidhi Desinghu (Kar) 57.87s (Mid, Old: 58.34, Shivani Kataria, 2015). 100m breaststroke: Harshitha Jayaram (Ker) 1:13.89s (MR, Old: 1:14.42s, Chahat Arora, Mixed: 4x100m medley relay

S. Shankar, Nina Venkat

Akshay dominates from start to finish in first F4 race



The first-ever Indian F4 championship got under-way at the Madras Interway at the Madras Inter-national Circuit as part of the second season of the Indian Racing Festival that kicked off here on Saturders

Saturday.
The series promoted
by Racing Promotions
Private Limited (RPPL)
has two championships
the Indian F4 and the In-

dian Racing League, a ci-ty-based franchise league with six teams.

On Saturday, Akshay The opening round of

dom won the first F4 race from pole position ahead of Roshon Rajeev and to be held at the Hydera-Shahan Ali Mohsin. Bohra maintained his lead from lights out and drove a

mposed race. There was a brief safety There was a brief safety car period as well, and the youngster nailed the restart to win it comfortably. On the last lap, torder the same safety car.

The rains meant the first race of the IRL, which was to follow the F4 race not be held.

The opening round of the pening round of the p

bad street circuit. But, due to upcoming elections in Telangana and with the model code of conduct in place, the race was moved to Chen-nai at the eleventh hour.

The four-round series will now be held only in Chennai, with the first three rounds at the MIC and the final round at the Chennai Formula Racing circuit, a street circuit near Island grounds.

The event will be In-dia's first-ever night race and will be held on December 9 & 10.



India beats Pakistan to win bronze

Goalkeeper H.S. Mohith made a crucial save in the penalty shootout as the India junior hockey team edged arch-rival Pakistan 6-5 to bag the bronze medal at the Sultan of Johor Cup, in Johor Bahru on Saturday. The regulation time ended with the scoreline reading 3-3 with Arun Sahani (11th), Poovanna CB (42th) and captain Uttam Singh (52nd) scoring for India, while Sufyan Khan (33rd), Abdul Qayyum (50th) and skipper Shahid Hannan (57th) finding the net for Pakistan. The penalty shootout went all the way to sudden death and Mohith tackled Hannan perfectly to seal India's victory.

Sultan of Johor Cup

Most recent season or competition:

2023 Sultan of Johor Cup

Sport Field hockey

Founded 2011; 12 years ago

Inaugural season 2011

No. of teams 6 (2011–2022)

8 (2023-)

Country Malaysia

Venue(s) Taman Daya Hockey

Stadium

Most recent India (3rd title)

champion(s) (2022)

Most titles Great Britain,

India (3 titles)

Successful national teams [edit]

Below is a list of teams that have finished in the top four positions in the tournament:

Team	Winners	Runners-up	Third place	Fourth place
India	3 (2013, 2014, 2022)	4 (2012, 2015, 2018, 2019)	2 (2017, 2023)	1 (2011)
Great Britain	3 (2015, 2018, 2019)	2 (2014, 2017)	1 (2022)	1 (2016)
** Australia	2 (2016, 2017)	3 (2011, 2022, 2023)	3 (2012, 2014, 2018)	
Germany	2 (2012, 2023)			
Malaysia Malaysia	1 (2011)	1 (2013)	2 (2015, 2019)	1 (2017)
C Pakistan		1 (2016)		3 (2012, 2013, 2023)
Japan			1 (2016)	3 (2018, 2019, 2022)
Argentina			1 (2013)	1 (2015)
South Korea			1 (2011)	
New Zealand				1 (2014)

THE SUNDAY EXPRESS MAGAZINE Lighting Up the Darkness A Ramachandran, 88, on

why his canvas changed from the dark to the lyrica FOUR-PAGE PULLOUT

Legislature can enact fresh law, can't directly overrule court judgment: CJI



of India DY Chandrachud

EXPRESS NEWS SERVICE

SPEAKING ON the separation of sowers between the executive. owers between the executive, egislature and judiciary, Chief ustice of India DY Chandrachud aid on Saturday that while the egislature can enact a fresh law o "cure the deficiency" in a law, t cannot "directly overrule" a court judgment. "There is a dividing line be-

not do when there is a judgment of the our. If there is a judgment of the court which decides a particular is sue and that judgment points out deficiencies in the law, it is always open to the legislature to enact a fresh law to cure the deficiency. What the legislature cannot do is to say we think this judgment is wrong and therefore. dgment is wrong and therefore we overrule the judgment. A adgment of the court cannot be irectly overruled by the legislaure... that's completely imper-nissible.. but if a judgment takes particular view of a legislation, is always open to the legislature cure the defect," he said at the lindustan Times Leadership

The CII said that in 1951. hen the SC held that provisions CONTINUED ON PAGE 2



TAKING GUARD

Bangladesh captain Shakib Al Hasan during a practice session in New Delhi on Saturday. Bangladesh, who play Sri Lanka Monday, had cancelled Friday's practice session. PTI DELHI-NCR AQI 'SEVERE' FOR THIRD STRAIGHT DAY PAGE 4

WHAT ED CHARGESHEET CLAIMS Mosquito coil firm to

DEEPTIMAN TIWARY NEW DELHI, NOVEMBER 4

In what also suggests siphon



was paid as agent commission to CONTINUED ON PAGE 2

157 killed as quake hits Nepal, toll likely to rise

Rukum West dist NEPAL INDIA

YUBARAJ GHIMIRE

AT LEAST 157 people, including 89 women, were killed and 190

89 women, were killed and 190 injured when a 6.4 magnitude carthquake struck western Nepal allittle before midnight on Friday, While the epicentre was at Ramidanda in plajntot district, about 550 km from Kathmandu, the tremors were felt in New Delhi and parts of north India too.

APURVA VISHWANATH

DOES THE gender of the person

CONTINUED ON PAGE 2

Army personnel evacuate an injured child from Jajarkot district, the quake epicentre. Nepal Army RELATED REPORT, P 14

Filing FIRs to getting convictions, legal

process stacked against women: study

INDIA OFFERS 'ALL POSSIBLE ASSISTANCE'

The two districts of Jaiarkot 52 deaths and 85 injured.

Day after ED's claim, Modi targets Baghel: 'Not spared Mahadev name



PM Modi in Chhattisgarh's Durg district Saturday. PTI

JAYPRAKASH S NAIDU

SPEAKING AT a rally in Chhattisgarh, Prime Ministe Narendra Modi on Saturday tool aim at Chief Minister Bhupesl Baghel and the Congress govern



was referring to the Enforc-ement Direct-orate's allega-tions the previous day that the CM had received kick-backs to the troor from the pro-

backs to the tune of Rs 508 crore from the pro-moters of the Mahadev app, an online betting platform. Reacting to Modi's com-ments, Raghel hit back, accusing the BIP of using central agencies against its political opponents. Assembly elections in Chlatrievach will be held in two Chhattisgarh will be held in tw CONTINUED ON PAGE

MODI IN MP: CONG LEADERS ARE LIKE

diamond exporter, how Goval 'diverted' Jet funds

FROM A mosquito coil manufac-turing company hired to manage salaries and a railways infra company to advise on aircraft spare parts to a diamond exporter for financial consultation - these are some of the ways in which let Airways India Ltd (JIL) promoter Naresh Goyal allegedly siphoned off airline funds leading to the eventual demise of the company, the Enforcement Directorate (FD) has said in its chargesheet

ing of funds, the ED chargesheet noted that over Rs 1,000 crore legedly siphoned off funds by making JII. grant loans worth over Rs 4,057 crore to Jet Lite Ltd but adjusted a large part of it against

INDIA FACE SOUTH

AFRICA IN KOLKATA

AFTER ROW, ISRO CHIEF WITHDRAWS MEMOIR PAGE 9

(FIR) determine the outcome of the case? A study of over 4 lakh FIRs in PAK AIR FORCE BASE ATTACKED, ALL 9 Harvana has found that male complainants who register cases on behalf of their woman friends MILITANTS DEAD P14

STUDY OF OVER 4 LAKH FIRS IN HARYANA INTHE POLICE STATION IN COURT

Women's FIR registration lags a month behind men's Women reporting violence wait 2 hrs longer to file FIR nen's cases

Women face higher case dismissal rates

5% conviction when complainants women, 17.9% when men

For case registration, wer, less likely to male proxy complain face fewer burdens

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An authentic Avurvedic sex An authentic Ayurvedic sex power enhancer, it is also useful in relieving tratigue and weakness. Very useful for men having a flabby genital masturbation or over-indulgence in sex. We have corrected erectile dysfunction (premature ejaculation) in animal models. This research is available on https://potanjali.res.in/



Made from rare herbs like

Swarna Bhasma, pure Kaunch, Bala, Shatavari, Praval Pishti, Wang Bhasma and Shilajit, Youvnamrit Vati helps in eradicating problems relating to quality, quantity and speed of



Swarna Shilajit

Swarna Shilaiit is a strength-enhancing medicine which removes sexual debility in men. It levels and safely cures

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Powder to remain forever young and to



Santati Sudha



Ashvashila / Ashvagandha

Regular use of these medicines for a happy married life gives you a satisfied life and permanent relief from problems like fatigue, diabetes and light nain





Police show the GPS tracker anklet to monitor terror

at the behest of proscribed terror-ist organisation Hizbul Mujahideen, they said. Bhat was arrested in the cur-rent FR while attempting to trans-port the proceeds of terrorism to

port the proceeds of terrorism to the tune of Rs 2.5 lakh at the be-hest of HM. The accused is also convicted by the NIACourt Patiala House, Delhi, in another case for being associated with a terrorist

AVANEESH MISHRA DEHRADUN, NOVEMBER 4

THE 17 FAMILIES evicted from

THE 17 FAMILIES evicted from Dehradum's Kabal House got temporary respite from the has given them at the local temporary from the has given them until Docember 1 to vacate the premises. While the decision gives the families some breathing room, they remain until the state of th

now I have no house. I have al-

ready spent over Rs 3 laich for her marriage. I have no idea what to

do now. The administration and

police came Thursday and re-moved everything from the house. The sofa, the fridge, and the dressing table that I pur-chased as a gift for my daughter's wedding are all lying in the open outside my house. We have no place to go, We spent the last two nights in the open," said Sanjay Charhan, a Kabhi House resident.

Dehradun's EC Road. The house, spread over 19 bighas, is esti-

police came Thursday and re-

Express Network

J&K Police first in ISRO chief Somanath withdraws country to use GPS publishing of his autobiography anklet for UAPA accused out on bail

PRESSTRUST OF INDIA

THE JAMMU and Kashmir Police HEI JAMMU and Kashmir Police as introduced GPS tracker an-dess formonitoring the terror ac-used out on ball, becoming the lrst police force in the country to lo so, officials said on Saturday. The GPS tracker anklet is a wear-tible device affixed around the an-de of the person to be monitored and tracks their movement.

ind tracks their movement.

The device is already being ised in the USA, UK, South Africa, wistralia and New Zealand to rack the movement of accused rsons on bail, parole and house rest and accordingly de-con sts prisons to a large extent

icass of the J-K-Potice have intro-fuced the GPS tracker anidate for nonitoring of ball-out terror ac-used, the officials said. They said he J-K-Potice is the first police de-sartment in the country to intro-

partment in the country to intro-luce such a device.

The officials said the devices were introduced after a Special SIA Court, Jammu, passed an or-ler directing the police to affix a JPS tracker anidet on a terror acused—the importance of which ras highlighted by the prosecuion department of the police

organisation and for conspiracy for a terrorist act, the officials said. In the Special NIA Court, Jam-mu, the importance of close monmu, the importance of close mon-itoring of the terror accused and the stringent conditions for grant of bail under the UAPA, 1967, was highlighted by the prosecution departers, Jammu, the officials said. Finding merit in the sub-missions of the prosecution, Sp-ecialNIACourt, Jammu, was pla-sed to pass an order directing J-K Giving details of the case, the officials said in an FIR filed under various sections of UAPA, accused Shulam Mohd Bhat had applied or half During the product of the chall product of product of the ch Shulam Mohd Bhat had applied for ball. During the pendency of he bail hearing, the accused ought to be released on interim ail. The accused is undergoing rial for being associated with dif-Police to affix a GPS tracker anklet

Leopard kills woman in Odisha, second death in a week

SUJIT BISOYI 3HUBANESWAR, NOVEMBER 4

N A second such incident a leopard at Siliaribahara villago mit in Nuapada district in

The victim, Rameswari Bai 45), went to a nearby forest 45), went to a nearby forest Fiday evening to answer na-sure's call, said forest officials. When she did not return home, rillagers launched a search for ser. The village is located in the fringe area of Sunabeda wildlife anctuary in Naapada district. On Saturday morning, the dilagers found a keopard earing.

er body parts in a jungle few

"The body has been sent for neck in a leopard attack in Godapalli village in the region un-ler the Dharamabandha police imit. On October 30, a seven-rear-old boy was mauled to leath by a leopard while he was playing in front of his house.

ISROCHAIRMAN'S Somanath on upcoming autobiography, after of his alleged critical remarks about his predecessor K Sivan in the book.

aries of the Ujjwala Yojana.
Puri said that under the lead-ership of Prime Minister Narendra Modi, Northeast is wit-

nessing development, according to an official statement.

see so many beneficiaries of the

see so many beneficiaries of the Ujiwala Vojana in Tuensang. To make liquified petroleum gas (LPG) available to rural and deprived poor households, the government launched Pradhan Mantri Ujiwala Yojana in May 2016, to provide deposit-free LPG connections to adult women of poor households.

Kabulhousein 15 days. This follows a 40-year legal battle between district authorities and the residents. This

week,authorities started vacating the

residents and sealing up the houses. Among those who will be rendered homeless include five

families from the Valmiki co

ramilies from the Vaimilie com munity, whose ancestors worker as sweepers for Yaqub Khan. "W were not educated, and the rule gave our ancestors a place to live in their horse stables here in the Kabul House. When the Afghan.

October 21, and four days late

'Daughter's wedding

house. The sofa, the fridge, and the dressing table that I pur Wednesday, the administration woulding are all ying in the ore not place to go. We spent the last two lights in the open", said Sanjay. However, some residents continued to like with their families in the house, which is located in an upscale area of the said of the

mated to be around Rs 400 crore. Nitin Singh, the administration Two weeks ago, the Dehradun has not reopened all the doors.

in Dec... no house':

Man after eviction

He said that he was happy to



The book jacket of 'Nilavu Kudicha Simhangal'

Union Minister Puri hails PM

for development in Northeast

Farlier in the day while re-

claimed his autobiography had ome critical remarks about his predecessor Siwan, Somanath beniedhe had targeted "any par-tical properties of the properties of the positions may have to go through several challenges. One among them is the challenges with re-gardto getting positions in anor ganisation," he said, adding that

these are challenges that every-body has to go through. "More persons might be eligible for a significant post. I just tried to bring out that particular point. I didn't target any particular point.

vidual in this regard," he added

He admitted that he mentioned He admitted that he mentioned in his book the lack of clarity in connection with the announce-ment of the failure of the Chandrayaan-2 mission. The ISRO Chairman reiter-

MANISH SAHU LUCKNOW, NOVEMBER 4

'Illegal' shop demolition: Four UP cops booked

Burabanki Faur police personnel, including a station house officer, were transferred to police lines and an Fift registered against and an Fift registered against as shop in the absence of the resemble department, officials said to the station of the station of



Petroleum Minister Hardeep Singh Puri at the inauguration of a multi-specialty hospital in Sivasagar, Assam, Saturday. PTI

many schemes that raised the living standards of the people. Conclude the project of the people of t

statement.
During the visit, he was accompanied by state Housing
Minister Bashangmongba
Chang, Youth Resource & Sports
Advisor Keoshu Yimkhiung,
MLAS Imtichuba and Benei M

Third case in which Vijay Mishra has been sentenced, 21 cases still pending A BHADOHI court on Saturday handed down 15 years of impris-onment and a fine of Rs 1 laikh to former Uttar Pradesh MLA Vijay Mishra after finding him guilty of repeatedly raping a 28-year-singer. This is the third case in which the 70-year-old politician has been sentenced, with 21 more

Ex-UP MLA gets

15-year jail for

raping singer

on a complaint from their relativ Krishna Mohan Tiwari, who ac

According to the prosecution, the rape cane dates back to Octube the property of the property

Mishra had a total of 83 crim- to Mishra and his family

cases pending against him in

the court under tight security and justice Subodh Singh sentenced

The verdict came a day after the court declared Mishra guilty under IPC sections 376-2(N)(re-peatedly committing rape on the same woman) and 506 (crimi-

however, acquitted Mishra's son Vishnu and his nephew Jyoti alias Vikas.

including 15 in Bhadohi dist years of imprisonment in a Arms Act case registered agains

cristina Monan Tiwari, who ac cused them of grabbing his prop-erty in Bhadohi. In May last year, police boo-led Mishra, his wife, their daug-hter, and three others for an al-leged, contrained to mystele

Odia film producer held for assaulting woman journalist

THE COMMISSIONERATE Police in Bhubaneswar on Saturday ar-rested Odia film producer Sanjay aka Tutu Navak for allegedly as saulting a woman journalist in the city a day before. Nayak was arrested after be-

ing detained by the police for ining detained by the police for in-terrogation at a police station in the city. "Based on the statement of the complainant and the wit-nesses and CCTV footage, we found prima facie evidence against the accused. Hence, he has been arrested and forwarded to court," said a police officer. Nayak, has been arrested un-

der section 341 (wrongful reand 354 (outraging modesty),

Navak allogodly accault

Journalist unions acro Odisha condemned the film pr

deputed outside a theatre h to cover the premiere of an Odi movie. She later lodged a con plaint against the film produce

Meanwhile, the State Con ission for Women also filed a su

Seven killed in Maharashtra pharmaceutical factory fire, 46 rescued

EXPRESS NEWS SERVICE MUMBAI, NOVEMBER 4

DIWALI RUSH

SEVENTERSONS died while several others were left injured are a series of explosions trigter and the properties of the pro

was reported around 10.30 am were around 57 persons present inside the plant when the fire broke out and 46 of them were

Shoppers throng a market in Thane, Maharashtra, ahead of Diwali on Sunday. Deepok Joshi

burnt beyond recognition and we are trying to identify them."X "The fire was brought under control by late evening and the bodies were found Saturday morning," said an officer. The Ralgad police said that

rescued safely.

Superintendent of Police
Sommath Gharge said, "We have
The Raigad police said that
they have registered a case of ac
diental death and a probe is un derway. "We will investigate and try to ascertain the cause of the



IIT-Kharagpur study: India's surface temp may increase by up to 5.1°C by 2100

SANTANU CHOWDHURY

SURFACE TEMPERATURES over

In a research paper titled Enhanced surface temperature wer India during 1980–2020 and uture projections: causal links of nid in high emission scenarios emperature rise over the Indian egion could goup to as high as 5.1 egree Celsius, almost at par with he upper-end estimates for the

tures have increased significantly since the beginning of industrialisation. The high emissions of greenhouse gases have con-tributed to global warming and climate change, which is expected to continue. We have investigated the long-term trends of surface temperature in India using surthe drivers and trends" found in northwest, northeast, and north-

However, according to an-other Kabul House resident,

climate charge, which is espected to continue. We have investigated to continue. We have investigated to continue. We have investigated to continue the coupled to the complex of results show that temperature can assessed the influence of geophysical drivers on temperature strong physical drivers on temperature cardinary to the continue of the conti



The team behind the study took more than two years to arrive at the projections. File

years and then made projections for the same till 2100. We have used a lot of data, especially from the IMD which was provided by

purath told The Indian Express. Under moder-ate emissions sce-narios, the average surface temperature over India as a whole

These are the inter-mediate greenhouse gas emis-sions at current levels. Under the high emission scenario (emissions increasing by 3 times by 2075), the adverse effects of accelerated warming and regional clima should be adverse effects of accelerated warming and regional clima should be adversed to the should be adversed to

the professor elaborated.

The IIT-Kharagpur professor along with his three PhD students and a scientist from the Indian Institute of Tropical Meteorology in Pune worked on the study. It in Pune worked on the study. It took them more than two years to arrive at these projections. The study also said that temperature increases in the last four decades \$10.1 to 0.3 °C per decade during premonsoon and 0.2-0.4 °C per decade during post-monsoon. According to the study, post-monsoon season displayed in-

and peninsular India have in creased by about 0.01 to 0.03°0

IIT-Kharagpur study: India's surface temp may increase by up to 5.1°C by 2100

SANTANU CHOWDHURY

KOLKATA, NOVEMBER 4

SURFACE TEMPERATURES over India were likely to increase by 1.1 to 5.1 degree Celsius by the year 2100, a new study by IIT-Kharagpur has indicated.

In a research paper titled "Enhanced surface temperature over India during 1980–2020 and future projections: causal links of the drivers and trends" published in a Nature journal last month, said in high emission scenarios temperature rise over the Indian region could go up to as high as 5.1 degree Celsius, almost at par with the upper-end estimates for the global average rise in tempera-

tures. The actual rise in temperatures over the Indian region till now has been significantly lower than the global average.

"The Earth's surface tempera-

tures have increased significantly since the beginning of industrialisation. The high emissions of greenhouse gases have contributed to global warming and climate change, which is expected to continue. We have investigated the long-term trends of surface temperature in India using surface, satellite and reanalysis data for the period of 1980-2020, and assessed the influence of geophysical drivers on temperature change using the causal discovery," the research by the Centre for Ocean, River, Atmosphere and

Land Sciences (CORAL) at IIT Kharagpur says. The study, titled "Enhanced surface temperature over India during 1980–2020 and future projections: Causal links of the drivers and trends", found increasing temperature trend during the pre-monsoon and postmonsoon seasons in the northwest, northeast, and north-

central regions of India.

"Analyses with the Coupled Model Intercomparison Project 6 results show that temperature can increase up to 1.1–5.1°C by the year 2100 under the Shared Socioeconomic Pathways–8.5 scenario. The increasing trend of temperature in India is a big concern, which calls for adaption and mitigation measures to alleviate



The team behind the study took more than two years to arrive at the projections. File

adverse effects of accelerated warming and regional climate change," it said. The study was conducted in association with the Indian Institute of Tropical Meteorology in Pune which provided meteorological data based on which the research paper was made.

"We have looked into the surface temperature in India in the last 40

years and then made projections for the same till 2100. We have used a lot of data, especially from the IMD which was provided by the Indian Institute of Tropical Meteorology in Pune. We have also used global data. We have made projections for different scenarios," lead researcher and associate professor at IIT-Kharagpur's CORAL, Jayanarayanan Kuttip-

EXPLAINED

purath told The Indian Express.

"Under moderate emissions scenarios, the average surface temperature over India as a whole is likely to be about 1.2-2°C by 2100. These are the inter-

mediate greenhouse gas emissions at current levels. Under the high emission scenario (emissions increasing by 3 times by 2075), the average temperature is likely to increase by 3.5-5.1°C by 2100. These numbers agree with the global average and the recent Intergovernmental Panel on Climate Change (IPCC) evaluation. However, the high emission scenario could be

unlikely because so many measures are being taken to bring down the emissions. But it can come up to maybe 3°C, if the emissions do not come down," the professor elaborated.

The IIT-Kharagpur professor along with his three PhD students and a scientist from the Indian Institute of Tropical Meteorology in Pune worked on the study. It took them more than two years to arrive at these projections. The study also said that temperature increases in the last four decades in the country have ranged from 0.1 to 0.3°C per decade during premonsoon and 0.2-0.4°C per decade during post-monsoon.

According to the study, postmonsoon season displayed increasing temperature trends across the entire country, with the most significant values in the western Himalayan region (0.2-0.5°C per decade) and northeast India (0.1-0.4°C per decade).

It further said that the average surface temperatures over northwest India, the west coast of India and peninsular India have increased by about 0.01 to 0.03°C per year in the last four decades during the October and November period. During the December-February period in the past four decades, parts of extreme north India, extreme north-west India, the temperatures in west coast of India and south peninsular India have increased by about 0.01 to 0.02°C per year.

epaper indianexpress.com

102 The Vision

Pritted 21 B Chemai B Cointbottore B Benglism B Hydresland B Madarai B Nordis B Visibhopottrem B Thirosanarthopotton B Kocki B Vijoyawada B Maspalaru B Trischingaeli B Kolkida B Hubbili B Mahali B Milippotram B Humboli B Trischingaeli B Control B

GS Foundation Course | English Medium | 29 November, 6 PM | Karol Bagh | 8010 440 440



Nijjar's killing: Indian envoy asks Canada for proof

Canada's probe into the nurder of a Sikh extrem to provide evidence to back up its allegations. 30 Page 12

Mahadev Book Online among 22 banned apps

NEW DELHI

The Centre on Sunday said it has issued blocking orders against 22 "illegal betting app websites", including Mahadev Book Online. » Page 14

PM, Kharge lead Mizoram poll campaign on final day

Congress releases Chhattisgarh manifesto ahead of polling for 20 seats tomorrow; Modi, in a video message, promises 'marvellous Mizoram'; Congress chief asks voters to be wary of RSS

sembly constituencies in Chhattisgarh came to a close on Sunday ahead of the polling on Tuesday.

Political parties unoffi-cially wound up their can-vassing 24 hours ahead of schedule, observing a si-

dra Modi and Congress president Mallikarjun Kharge released video messages for the voters on the day. Mr. Modi made a pitch for "marvellous Mis ram". Mr. Kharge said it was the Congress that had brought "peace and stabili-ty" to the State.

In Chhattisgarh, Mr. Mo-i, accompanied by former



Northeast India since 2014.

brought Delhi to the door

Chief Minister Raman Singh, visited the Maa Bamleshwari temple in In his video address for

Mizoram voters, Mr. Modi said the BJP-led NDA go-vernment at the Centre had been trying relentless-ly to reduce the psycholog-ical and physical distance

Kharge, meanwhile, sought to remind the vo-"We have given priority to realising your dreams ters that Rajiv Gandhi had signed the historic Mizo acand fulfilling your dreams and fulfilling your needs. In the past nine years, I have visited the northeast 60 times and the BJP has cord in 1986 and secured

CONTINUED ON » PAGE 12

As Andhra Pradesh alters PMAY name, Centre puts ₹4.000-cr. funds on hold

The Andhra Pradesh government's decision to add the ruling YSR Congress Party's imprint to the Union government's flagship rural housing scheme – Pradhan Mantri Awas Yojana-Gramin (PMAY-G) – and rebrand it to Pradhan Mantri Awas Yujana-YSR are proving costly for the State Sources said the State

government's decision had resulted in the Union Finance Ministry putting a temporary hold on ₹4,000 crore that Andhra Pradesh should get under a scheme for "special assis-tance to State for capital

tance to State for capital investment", apart from t1,300 crore in pending PMAY-G funds. The funds have not been released despite the



Jagan Mohan Reddy and Mamata Banerjee, in New Delhi. FILE PHOT

and logo from the scheme. For an identical violation in West Bengal, where the State government re-branded the scheme as the Bangla Awas Yojana, Central funds have not

been released since 2022.
This financial year too, funds were not released to West Bengal for the "non-submission of satisfactory

first letter flagging Andhra Pradesh's violation on July Pradesh's violation on July 17, noting that instead of PMAY-G, the State govern-ment had called the scheme PMAY-YSR, and used its own logo along-side the Union govern-ment's logo.

Bhutan King arrives in India



Blinken meets Mahmud Abbas in West Bank



Kohli and Jadeja help **India outplay Proteas**

Caught in a haze



Pitted against Cong. in State polls, SP, AAP target INDIA bloc ally

Ashok Kumar

the headwinds that the Indian National Develop-mental, Inclusive Alliance (INDIA), a bloc of 28 par-ties that seeks to dislodge the BJP from power in 2024, is facing in the run-up to the Lok Sabha elec-tion, the chiefs of the Sa-

the Congress is a "clever" party and wants to conduct a caste survey only for votes. "We want to conduct a caste census. The Congress has also started talking about it because its vote base has gone with the BJP. We Samajwadi log [socialistsl want to conduct a

the BIP from power in Caste census for your rights and respect," he said.

2024, is facing in the runn up to the Lok Sabba electron of the Lok Sabba



AAP national convener Arvind

tisgarh, and Rajasthan.
Mr. Yadav and M.P. Congress chief Kamal Nath earlier had a spat over the lack of the spatial properties of the SP chief saying that such behaviour by the Congress could lead to repercussions in U.P. Government of the Congress of the SP candidates across M.P. Government of the SP candidates across M.P. Government of the SP candidates across M.P. Mr. Yadav asked voters in the SP. He said the organi-



sational structure of both parties was not even a tenth of AAP's. "An organi-sation is not created in the air. It has bones and blood. ty," the AAP chief said. Mr. Kejriwal said no one

would join the Congress and the BIP if their workers went to the villages asking them to join their parties, but even children would be

but even children would be willing to join AAP because the party has become "the hope of the people".

"Today, the people of Haryana are grinding like a mill between the two par-ties. One party says 'we are a party of jats', the other says' we are a party of non-jats'. But AAP is a party of 36 communities," the AAP

the third-largest party in the country in just II years with governments in two States, MLAs in Gujarat and Goa, and MPs in both Houses of Parliament.

Will strengthen bloc'
Congress leader Jairam Ramash on Sunday related to
saimed at the Lok Sabha
poll. "Keeping the generalties decided to form the alties decided to form the alliance. But we got busy alties decided to form the alliance. But we got busy alties decided to form the almaterial to the second to
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women in armed forces made uniform

Leave benefits for

Press Trust of India

Defence Minister Rajnath Singh has approved a proposal to grant maternity, childcare and child adoption leave to women sol-diers, sailors, and air warriors on a par with the officers. The Defence Mi-

nistry on Sunday said the move was in line with Mr. Singh's vision of "inclusive participation of "inclusive participation of the parti career (subject to the child being less than 18 years of age) to women officers. age) to women officers. Child adoption leave of 180 days is granted after the date of the valid adoption of a child below one year of age, officials said.

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'Paradigm shift' In line with the Narendra Modi government's com-mitment towards utilising "Nari Shakti" (women

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breaking barriers in almost every field in the armed forces, the Ministry said.

In 2019, a significant through recruitment of women in the Indian Arm as soldiers in the Corps of Military Police, it added.



Leave benefits for women in armed forces made uniform

Press Trust of India

NEW DELHI

Defence Minister Rajnath Singh has approved a proposal to grant maternity, childcare and child adoption leave to women soldiers, sailors, and air warriors on a par with the officers. The Defence Ministry on Sunday said the move was in line with Mr. Singh's vision of "inclusive participation" of all women in the armed forces, irrespective of their ranks.

It said the measure would improve the working conditions for women in the military as it would help them balance their professional and family lives in a better manner.

At present, women officers get maternity leave of

rules will go a long way in dealing with women-specific family and social issues relevant to the armed forces," the Ministry said.

'Paradigm shift'

In line with the Narendra Modi government's commitment towards utilising "Nari Shakti" (women power), the three services have spearheaded a paradigm shift with the inclusion of women as soldiers, sailors and air warriors, the Ministry said.

"With the recruitment of women Agniveers, the armed forces will be empowered with the bravery, dedication and patriotism of women soldiers, sailors, and air warriors to defend the land, sea, and air frontiers of India," it said.

At present, women officers get maternity leave of 180 days with full pay for each child, subject to a maximum of two children. Childcare leave of 360 days is granted in total service career (subject to the child being less than 18 years of age) to women officers. Child adoption leave of 180 days is granted after the date of the valid adoption of a child below one year of age, officials said.

"The extension of leave

the land, sea, and air frontiers of India," it said.

From being operationally deployed in Siachen to being posted on warships as well as dominating the skies, Indian women are breaking barriers in almost every field in the armed forces, the Ministry said.

In 2019, a significant milestone was achieved through recruitment of women in the Indian Army as soldiers in the Corps of Military Police, it added.



The Defence Ministry has said the move is in line with Rajnath Singh's vision of "inclusive participation" in the armed forces. FILE PHOTO

15

Russia test-fires nuclear-capable ballistic missile from submarine



Russia said on Sunday it had successfully test-launched an ital ballistic missile capable of carrying nu warheads from one of its submarines. The launch of the "Bulava"

Ukraine missile strike on Crimean shipyard damages Russian ship



The Russian military said a Ukrainian missile strike on a shinyard in annexed Crimea had damaged a Russian ship. The Rus Ministry said on Saturday that Ukrainian forces fired cruise missiles at the Zaliv shipyard in Kerch, a city in the east of the Crimean Peninsula. Two of them damaged a vessel, the Ministry said.

Poppy growth has fallen by 95% in Afghanistan since Taliban ban: UN



oppy cultivation and opium production have plunged 95% in Afghanistan since Taliban authorities banned the crop, according to a UN report published on Sunday. The report by the United Nations Office on Drugs and Crime (UNODC) found that poppy cultivation has collarsed from 2.33.000 hectares in 2022 to 10.800 in 2023. **

raeli military. The camp, a built-up residential area, is located in the evacuation zone where Israel's mili-

zone where Israel's mili-tary had urged Palestinian civilians to seek refuge as it focuses its military offen-

sive on the north. Another airstrike hit a

house near a school at the

Bureji refugee camp in cen-tral Gaza on Sunday, and

staff at Al-Aqsa Hospital

said at least 13 people were killed. The camp is home

Bangladesh has arrested 8,000 Opposition activists, says report



Bangladesh police have arrested nearly 8,000 Opposition figures in a nationwide crack/near since capital a week ago, a report in the country's most-respected newspaper Prothom Alo said on Sunday. The sweeping wave

Israel Minister rebuked for Gaza nuclear 'option' remark

Agence France-Presse

An Israeli Minister was sus-pended from government meetings "until further notice" on Sunday, Prime Minister Benjamin Neta-nyahu's office said, after suswestire in an interview suggesting in an interview dropping a nuclear bomb

The comments by Heritage Minister Amichay Eliyahu advocating a fierce military response to Haeven at the cost of the lives of hostages believed to be held in Gaza also drew rebuke from families of the

captives. Prime Minister Benja-Prime Minister Benja-min Netanyahu's office quickly responded in a statement, describing ul-marks as "disconnected from reality" and adding that Israel was trying to spare "non-combatants" in Gaza. Israel has never ad-bomb. bomb.

53 dead as Israel warplanes strike refugee camps in Gaza

One of the camps, a built-up residential area, is located in the evacuation zone where Israel had urged Palestinian civilians in Gaza to seek refuge as it focuses its military offensive on the north

sraeli warplanes struck two refugee camps in the Gaza Strip early on Sunday, killing at least 53 people and wounding dozens, health officials said. The strikes came as Israel said it would press on with its offensive to crush the territory's Ha mas rulers, despite U.S. ap-peals for a pause to get aid to desperate civilians.

Israel has rejected the idea of halting its offensive, even for brief humanitareven for brief humanitar-ian pauses proposed by U.S. Secretary of State An-tony Blinken during his current tour of the region. Gaza's Health Ministry said Gaza's Health Ministry said more than 9,700 Palesti-nians have been killed in the territory in nearly a month of war, a number that is likely to rise as Israe-li troops advance into



Palestinians searching for casualties at the site of Israeli strikes on houses, at the Magazi Refugee Camp on Sunday. REUTERS

urban

dense, urban neighbourhoods. Airstrikes hit the Magha-zi refugee camp in central Gaza overnight, killing at wounding 34 others, the Health Ministry said. Arafat Abu Mashaia, who lives in the camp, said the Israeli airstrike flat-rad seevember people homes where people

forced out of other parts of

"It was a true massacre," he said while standing on the wreckage. "All here are peaceful people. I chal-lenge anyone who says there were resistance [fighters] here." There was no imme-diate comment from the Is-

President in West Bank

U.S. Secretary of State Antony Blinken said Gazans
'must not be forcibly dis-placed", speaking on a sur-prise visit on Sunday to the israeli-occupied West Bank to meet Palestinian Presi-dent Mahmud Abbas. It was the top U.S. diplomat's first visit to the Palestinian territory since war erupted

between Israel and Hamas Gaza fell under its third total communications out age since the start of the war on Sunday night, with war on Sunday night, with Palestinian communica-tions company Paltel say-ing all of its communica-tion and internet services were down.

killed. The camp is home to an estimated 46,000 pe-ople and was struck on Thursday as well. Despite appeals and overseas demonstrations, Israel has continued its bombardment across Gawere down.

"The Secretary reaffirmed the United States'
ery of life-saving humanitarian assistance and resumption of essentialecter that Palestinians
must not be forcibly displaced," said a summary of
the meeting released by bombardment across Ga-za, saying it is targeting Ha-mas and accusing it of us-ing civilians as human shields. Critics say Israel's strikes are often dispropor-tionate, considering the large number of civilians killed.



Blinken meets Palestinian

Mr. Abbas condemned what he labelled a "genowhat he labelled a "geno-cide" unfolding in the Ha-mas-ruled Gaza Strip, ac-cording to the official Palestinian news agency Wafa. "I have no words to Wafa. "I have no words to describe the genocide and destruction suffered by our Palestinian people in the particle of the particle of the rael's war machine, with no regard for the princi-ples of international law," Mr. Abbas was quoted as some particle of the particle of the Aviv on Sunday morning and travelled in a high-se-curity convoy to the Ra-

mallah headquarters of the Palestinian Authority – the body which, he recently said, should replace the Hamas government in Ga-za. Israel has sought to des-troy Gaza's Hamas rulers, would run the Palestinian territory after the war.

territory after the war. Mr. Abbas said the Pal-estinian Authority could return to power in Gaza in the future only if a "comprehensive political solu-tion" is found for the Israe-

Three killed

Three Palestinians were killed by Israeli forces in the West Bank, the Health

the West Bank, the Health Ministry said. Two men, aged 22 and 20, were killed "in an at-tack by Israeli occupation forces on Abu Dis", a subforces on Abu Dis", a sub-urb of annexed east Jerusa-lem separated by the Israe-li wall encircling the West Bank, it said. Further south, a 22-year-old was "killed by Israeli occupa-tion bullets in Nuba, north-west of Hebron," it added.

Radio anchor shot dead in Philippines

Agence France-Presse

A radio anchor was fatally shot by a man inside his southern Philippine station on Sunday in a brazer attack that was witnessed by people watching the programme live on Face-book.

The gunman gained en-try into the home-based ratry into the home-based ra-dio station of provincial news broadcaster Juan Ju-malon by pretending to be a listener. He then shot him broadcast in Calamba town, the police said. An investigation was un-der way to identify the gun-man and establish if the at-

A press freedom watchdog says Jumalon was the 199th journalist to

Philippines has long been regarded as one of the most dangerous places for journalists in the world. President Ferdinand

President Ferdinand Marcos Jr. strongly con-demned the shooting and said he ordered the nation-al police to look into it. The National Union of Journalists of the Philip-pines, a press freedom watchdog, said Jumaion was the 199th iournalist to

Against colonialism



Hostage situation at Hamburg Airport ends

Agence France-Presse BERLIN

The hostage situation at Hamburg Airport ended on Sunday afternoon, around 18 hours after a man drove his vehicle through the gates of the airport with his four-year-old daughter inside, authorities said. The man was arrested and the girl ap-pears to be unharmed.

closed to passengers and flights cancelled since Saturday night when the man, who was armed, broke through an airport gate with his vehicle and fired twice into the air with fired twice into the air with a weapon, according to German news agency dpa. The police said that the 35-year-old man had his daughter inside the car af-

ter reportedly taking her by force from the mother

National Centre for Radio Astrophysics TENDER NOTICE NO.08/2023-2024

U.K. Interior Minister plans to restrict tent use by homeless

Britain's Interior Minister sentain's Interior Minister Suella Braverman said on Sa-turday she would propose new laws to limit the use of tents by homeless people, say-ing many of them see it as "a lifestyle choice".

ing many of them see it as "a lifestyle choice". In a post on X, Ms. Braver-man, who is seen as a possible future leader of the governing Conservative Party, said the state would always support the who are genuinely

"But we cannot allow our streets to be taken over by rows of tents occupied by peo-SK CO

Placards during an anti-Suella Braverman, pro-refugee protest in London on Saturday. AFP

ple, many of them from abroad, living on the streets as a lifestyle choice," she said. Ms. Braverman argued that unless the government acted, British cities would "go the

way of places in the United States like San Francisco and Los Angeles, where weak poli-cies have led to an explosion

of crime, drug taking, and squalor".

She said there were options for people who did not want to be sleeping rough, and the government was working with local government to increase

local government to increase support. She was criticised by Ange-la Rayner, the Opposition La-bour Party's deputy leader, who said on X: "Rough sleep-ing is not 'a lifestyle choice'," and blamed diversed home-leases and the same of Conser-vative government.

Saudi Arabia, Russia to continue oil cuts

Reuters DUBAI

of around 9 million bpd for of around 9 million bpd for December, a source said. Following the Saudi state-ment, Moscow also an-nounced it would continue its Top oil exporters Saudi Arabia and Russia confirmed on Sun-day they would continue with day they would continue with their additional voluntary oil output cuts until the end of mand and economic growth continue to weigh on crude markets. Both countries said next month to consider ex-tending, deepening or in-sued in the continue with its addi-tional voluntary cut of i mil-lion barrels per day (bpd) additional voluntary supply cut of 3,00,000 bpd from its crude oil and petroleum pro-

duct exports until the end of December. December.

OPECs, which comprises
the countries of the Organisation of the Petroleum Exporting Countries (OPEC) and
leading allies including Russia, has been cutting output
since last year in what it says is
preemptive action to maintain
market stability.

VACANCY NOTICE HIGH COURT OF DELHI DELHI JUDICIAL SERVICE EXAMINATION-2023

Online Applications are invited from eligible candidates for Delhi Judicial

Number of Vacancies	GEN	SC	ST	TOTAL	Pay Scale	
	34	05	14	53	Rs. 77840-136520	

For eligibility criteria and other details, please refer to detailed advertisement on the website of High Court of Delhi i.e www.delhihighcourt.nic.in from 06.11.2023 onwards

07.11.2023 (1000 Hours) 22.11.2023 (1730 Hours)

All further notifications, corrigendum etc. related to this advertisement, it any, will be published ONLY on the official website of Delhi High Court. (Kanwaljeet Arora) Registrar General

MOSCOW

Russia test-fires nuclear-capable ballistic missile from submarine



AF

Russia said on Sunday it had successfully test-launched an intercontinental ballistic missile capable of carrying nuclear warheads from one of its submarines. The launch of the "Bulava" missile comes as Russia ramps up nuclear rhetoric since revoking its ratification of a key nuclear test ban treaty.



THE 12-METRE long Bulava missile, which has an estimated range of around 8,000 km and can carry up to six nuclear warheads, has become the cornerstone in the naval part of Russia's nuclear triad. The Imperator Alexander III is one of the new Borei-class nuclear submarines that carry 16 Bulava missiles each and are intended to serve as the core naval component of the nation's nuclear forces in the coming decades.

The nine nuclear-armed states, including the United States, Russia, and China, continue to modernize and expand their nuclear arsenals, deploying new nuclear-armed or nuclear-capable weapon systems in 2022.

Other nuclear-armed countries are UK, France, India, Pakistan, the North Korea and Israel.

KABUL

Poppy growth has fallen by 95% in Afghanistan since Taliban ban: UN



AP

Poppy cultivation and opium production have plunged 95% in Afghanistan since Taliban authorities banned the crop, according to a UN report published on Sunday. The report by the United Nations Office on Drugs and Crime (UNODC) found that poppy cultivation has collapsed from 2,33,000 hectares in 2022 to 10,800 in 2023.

1. Foreign donations



Several Afghan and US officials have long accused certain countries - including Pakistan, Iran and Russia - of giving financial aid to the Taliban. This is a practice they frequently deny.



However, private citizens from Pakistan and several Gulf countries including Saudi Arabia, the United Arab Emirates and Qatar are considered to be the largest individual contributors.

2. Drug trade

The Taliban have long been thought to run a taxation system to cover their insurgent operations, including on the illegal drug trade.

Afghanistan is the world's largest producer of opium, which can be refined to make heroin.

With an estimated annual export value of \$1.5-\$3bn, opium is big business, supplying the overwhelming majority of heroin worldwide.

3. Expanding areas of control

The Taliban's financial network extends well beyond taxing just the opium business.

In an open letter in 2018, the Taliban warned Afghan traders to pay their taxes on various goods - including fuel and construction material - when travelling through areas they controlled.

Virat's a legend of the game, says Dravid as Kohli turns 35



Coach Rahul Draviid described Virat Kohli, who celebrated his 35th birthday on Sunday, as a legend of the game. Speaking to ICC, Dravid said, "Virat's a legend of the game, especially (in) this format of the game. The standard of his performance over the years has probably set a benchmark for his generation of cricketers."

'Equalling Tendulkar's record on my birthday the stuff of dreams'



Virat Kohli said on Sunday that scoring his 49th ODI century on his 35th birthday, which put him on par with the legendary Sachin Tendulkar, was the stuff dreams are made of. Tevery opportunity to play for India is a big one; to be able to ton up on my birthday is a stuff dreams, Crateful to Cod that I've been blessed with such moments."

ANOTHER PEAK

Kohli reaches 500 in a WC edition, emulates Tendulkar and Rohit



Wrat Kohli is the third Indian after Sachin Tendulkar and Rohit Sharma, and the 17th overall, to score 500 runs in a single ODI World Cup. Kohli (1573) overtook Sri Lanka's Kumar Sangakkara (1532) to become the third-highest run-scorer in World Cup history Only Tendulkar (2278) and Ricky Ponting (1743) are ahead of Kohli.

Kohli becomes third batter in WC to celebrate birthday with a ton



Virat Kohli became the third batter, after New zeasanos nous topo and Mitchell Marsh of Australia, to score a World Cup century on his birthday. In ODIs (overalli), Kohli is the seventh batter to reach the three-figure mark on his birthday (Tom Latham, Sanath Jayasuriy. Sachin Tendulkar and Vinod Kambli apart from Taylor and Marsh).

Kohli's ton, Jadeja's five-for drive the Indian juggernaut

The birthday boy's 49th ODI century equals Tendulkar's record: Shreyas chips in with a sterling half-century as Rohit's men blow away the Proteas with a 243-run win; Men in Blue assured of top spot

ODI WORLD CUP

K.C. Vijaya Kumar KOLKATA

he skies turn dark early in Eastern In-dia but even in this inky blackness, Virat Kohli shone like the sun, staying even more incandescent than the floodlights. Koh-li's record-equalling 49th ODI ton (101 n.o., 121b, 10x4), that helped him draw level with his idol Sachin Tendulkar, set the base for India's 326 for five, a total that proved way beyond South Africa's grasp in the World Cup game at a boisterous Eden

game at a boisterous Eden Gardens here on Sunday. Kohli's support cast in-cluded batter Shreyas Iyer (77) and a relentless bowling attack that stifled the rivals. South Africa finrivals. South Africa In-ished with 8s in 27.1 overs and the Men in Blue won by 243 runs. The pursuit hinged a lot on Quinton de stabled a Mohammed Siraj delivery onto his stumps in the second ower. Skipper Temba Bavuma tried to en second over. Skipper Temba Bavuma tried to skipper.

edge from Aiden Markram. Later Jadeja won a suc-cessful review against Heinrich Klaasen and the pavilion-bound procession had a steady rhythm as Shami trapped Rassie van

inscribed on them, trooped into the bustling venue. Rohit Sharma won the toss, elected to bat, and dished out a quickfire and dished out a quickfire 24-ball 40. Lungi Ngidi was drilled past covers and hoisted for sixes, a ner-vous Marco Jansen, sad-dled with wides, was pulled, and just as it seemed that Rohit was set

for a big one, he suc-cumbed to Kagiso Rabada. Birthday boy Kohli walked in as applause rip tands. Meanwhile, Shub-man Gill lofted Jansen for six. But Gill was beaten all ends up by a Keshaw Maha-raj special that pringed the disturbed the stumps. In-dia had the impetus at 93

snam trapped kassie van der Dussen right in front. At 40 for five, the visitors were in a shambles, a state that never changed as In-dia, especially Jadeja (five for 33), kept prising out In the afternoon, fans, wearing their blue jerseys with either Virat or Rohit

dia had the impetus at 93 for two in 10.3 overs, and it was left to Kohli and



Shreyas to strike roots.

Kohli drove and
whipped while the South
African quicks tested
Shreyas with some short-

quipped: "It is difficult your last match I did try to think like a captain, but it batting, bowling and fielding, and in contributing to the team's success." It be birthday boy Virat Kohli? "Well every day we wear "Well every day we wear birthday only because not many get this chance. As scoring runs, medium his birthday even more special, and the more records better for the team. The

better for the team. The timing is also good as he is doing all this in the current

World Cup," Jadeia said.

quipped: "It is difficult

pitched deliveries. The scoring rate dipped as spinners Maharaj and Ta-braiz Shamsi kept it tight and the fielders responded

with alacrity. Gradually in their alliance Kohli and Shreyas got their respec-tive fifties and the latter tucked into an erratic Jan-

INDIA

Rohit Sharma c Bavuma b

Rabada 40 (24b, 6x4, 2x6),

Shubman Gill b Maharaj 23 (24b,
4x4, 1x6), Virat Kohli (not out) 101 4od, Jud., Virak Kohli (Ind out) 30, (122b, Judu), Shreyas Iyer C Markinan b Njoli 77 (777, 704, 205), K.L. Rahlul c van der Doussen Soli, K.L. Rahlul c van der Doussen Vadav c de Kock b Shamal 22 (14b, 5w4), Rahmida Jadeja (not out) 29 (15b, 3w4), Jadi (Johnson Laborato), Shamal 22 (15b), Shamal 23 (15b), Shamal 24 (15b), Shamal 25 (15b), Sha

(Janse 26.2). INDIA BOWLING

SOUTH AFRICA BOWLING Ngidi 8.2-0-63-1, Jansen 9.4-0-94-1, Rabada 10-1-48-1, Maharaj 10-0-30-1, Shamsi 10-0-72-1, Markram 2-0-17-0. SOUTH AFRICA

Quinton de Kock b Siraj 5 (10b, Lett), Temba Baruma b Jadeja 1.1 (13b, Jad), Rassie van der Dussen lbw b Shami 13 (32b, £et), Aiden Marikram c Rahul b Shami 9 (6b, 2xt), Heinrich Klassen lbw b Jadeja 1 (21b), David Miller b 2x4), Heinrich Klaasen Ibw b Jadeja 1 (21b), David Miller b Jadeja 11 (11b, 2x4), Macco Jansen c Jadeja b Kuldeep 14 (30b, 1x4), Keshav Maharaj b Jadeja 7 (21b, 1x4), Kagiso

rkram. The 134-run third-wicket partnership terminated once Shreyas fell to Ngidi and K.L. Rahul departed while trying to hasten the run-rate. Suryakumar YaRabada c & b Jadeja 6 (26b), Lungi Ngidi b Kuldeep 0 (3b), Tabraiz Shamsi (not out) 4 (4b, Ln4); Extras (w-2): 2; Total (in 27.1

FALL OF WICKETS 1-6 (de Kock, 1.4), 2-22 (Ba

1-6 (de Note, 1-4), 2-22 (badum) 8-3), 3-35 (Markram, 9.5), 4-40 (Klaasen, 12.5), 5-40 (van der Dussen, 13.1), 6-59 (Miller, 16.3), 7-67 (Maharaj, 18.4), 8-79 (Jansen, 25.4), 9-79 (Rabada,

Points table

	м		L.	PTS	NRR
India (Q)	8	8	0	16	2.456
South Africa (Q)	8	6	2	12	1.376
Australia	7	5	2	10	0.924
New Zealand	8	4	- 4	8	0.398
Pakistan	8	-4	- 4	8	0.036
Afghanistan	7	4	3	8	-0.330
Sri Lanka	7	2	- 5	4	-1.162
Netherlands	7	2	5	4	-1.398
Bangladesh (E)	7	1	6	2	-1,446
England (E)	7		6	2	-1.504

dav then lent urgency, slog-sweeping Shamsi while Kohli muscled against Jansen. Even after Suryakumar lobbed a reverse-sweep and perished, Kohli remained the steady anchor and his special

hundred was registered with a single off Rabada. There was relief and a half-smile before he raised his bat. Soon his partner Jade-ja smote a six off Ngidi as India finished with a total that left the rivals gasping.

india won by 243 runs

Next assignment South Africa: November 10 vs. Afghanistan, Ahmedabad, 2 p.m.

India: November 12 vs. Netherlands, Bengaluru, 2 p.m.

'Ultimate satisfaction when you do well and team wins'



K.C. Vijava Kumar

Ever the live-wire on the field, Ravindra Jadeja is equally sparkling in press conferences. The all-roun-man after scoring handy runs and grabbing a five-for against South Africa, all vital contributions towards India's emphatic triumph the Eden Gardens here on Sunday.

"There has been a nice rhythm over the last few matches. I have scored runs, I have got wickets and all this is a part of the m. When

SM (SM)

you perform well and the

you perform well and the team wins, then it gives you the ultimate satisfactory and the second of the media. The recurring query about remaining unbeaten about remaining unbeaten fell back on the team's fell back on the team's the second of the second of

he said.

When asked how, for a moment, if he was the captain, would he appraise his own performance, Jadeja

and highly skilled'



South Africa coach Rob Walter heaps of ornise on medicafter heaps of descrip-ken to the cleaners at the Eden Gardens in Kolkata. South Africa had a South Africa had a dia, having opted to bat, put on 326 for five on Sunday. are a hell of a ream: yery well balanced

"They are a hell of a team; very well balanced and highly skilled," Walter said, addressing the media after the Proteas embar-rassingly went down by

243 runs.

South Africa and India are the only teams to have cemented a semifinal spot, thus far. Walter believes thus far. Walter believes things could pan out diffe-rently if the two teams are pitted against each other once again during one of

the knockout fixtures

the knockout fixtures. He said, "This is a furmy game and you get taught day. It wouldn't surprise me if the tables turn the next time round. The beauty of it is that there maybe we've been given an opportunity to learn from this."

this."

Pacer Marco Jansen con-ceded 94 to become the most expensive South Afri-can bowler in ODI World Cup history. However, Wal-ter believes there is light to be found at the end of the

tunnel.

He said, "It's a gift to be able to run out in front of 75,000 in a game like today and (there are) so many learning opportunities out there. Fortunately for us, today wasn't a must-win fixture."

India is well balanced | Jadeja joins Yuvraj as India spinner with a WC five-for

Mayank Chaudhary

Virat Kohli became the se-cond batter, after Sachin Tendulkar (6976), to score 6000 runs in ODIs in In-dia. Ouinton de Kock is the

fourth South African bat ter to score 1000 runs in the World Cup after A.B. de Villiers, Jacques Kallis and Herschelle Gibbs. Marco Jansen (9.4-0-94-1) registered the most

expensive bowling figures for South Africa in a World Cup.
The Proteas had their worst bowling PowerPlay (91/1) and worst batting PowerPlay (35/3) in the 2023

69L/D and worse batting Po-celition.

Robit equalled de Vil-lers for the most ODI sizes in South Africa's 83 is its South Africa's 83 is its lowest World Cup total South Africa's 243-run defeat is the biggost defeat (by runs) in the World Cup dependent of the Company of the South Africa's 243-run defeat is the biggost defeat (by runs) in the World Cup dependent of the Company of the receives werst World Cup defeat was the 130-run loss to India in 2018.

The second Indian spinner after Yuvraj Singh (5/3) us preland, 2010 to take a free-ter of the company of the World Cup. He also regis-

:::



Batting	inns	Runs	HS	Avg	SR	100s/50
de Kock (SA)	8	550	174	68.75	111.33	4/10
Kohli (Ind)	8	543	103"	108.60	88.29	2/4
Ravindra (NZ)	8	523	123*	74.71	107.39	3/2
Rohit (Ind)	8	442	131	55.25	122.77	1/2
Warner (Aus)	7	428	163	61.14	111.74	2/1
Bowling	Inns	Wkts	88	Avg	Econ	4W/5W
Zampa (Aus)	7	19	4/8	17.15	5.52	3/0
Madushanka (SL)	7	18	5/80	22.11	6.41	1/1
Jansen (SA)	8	17	3/31	24.41	6.41	0/0
Shami (Ind)	4	16	5/18	7.00	4.30	1/2
Afridi (Pak)	. 6	16	5/54	25.56	5.76	0/1

tered his best ODI figures (94-33-5).

India (8) equalled its longest winning streak in a single edition of the ODI coming in 2003. This is the first South Africa failed to six in an ODI match.

World Cup, the earlier one

BLESSED

'Equalling Tendulkar's record on my birthday the stuff of dreams'



BCCI TWITTER

Virat Kohli said on Sunday that scoring his 49th ODI century on his 35th birthday, which put him on par with the legendary Sachin Tendulkar, was the stuff dreams are made of. "Every opportunity to play for India is a big one; to be able to ton up on my birthday is a stuff of dreams. Grateful to God that I've been blessed with such moments."

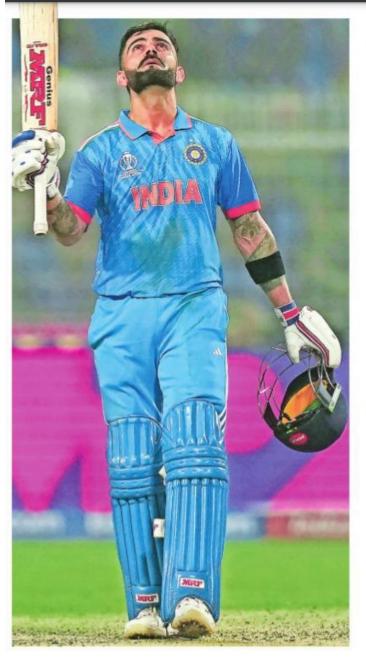
ANOTHER PEAK

Kohli reaches 500 in a WC edition, emulates Tendulkar and Rohit



K.R. DEEPAK

Virat Kohli is the third Indian after Sachin Tendulkar and Rohit Sharma, and the 17th overall, to score 500 runs in a single ODI World Cup. Kohli (1573) overtook Sri Lanka's Kumar Sangakkara (1532) to become the third-highest run-scorer in World Cup history. Only Tendulkar (2278) and Ricky Ponting (1743) are ahead of Kohli.



November 5, 2023: Kohli looks skyward on reaching his 49th hundred on Sunday, to be on par with Tendulkar. PTI

Virat after 49th ODI ton

> 277 Innings

58.48 Average

93.63 Strike Rate

> 70 50s

49 100s

Sachin after 49th ODI ton

> 451 Innings

44.81 Average

86.18 Strike Rate

> 95 50s

49 100s

1 200s



March 16, 2012: Tendulkar after scoring his 49th ODI hundred, his 100th international ton, versus Bangladesh in Mirpur. Reuters

India dethrones Japan with a commanding display, regains the title it won in 2016





Stellar show: After a cagey start, the Indians came into their own and slotted four past the hapless Japanese. PTI

ACT HOCKEY

Uthra Ganesan

RANCHI

For a stadium with an official capacity of 8000, the Marang Gomke Jaipal Singh Munda hockey stadium here had at least double that number inside on Sunday and much more outside, crowded in front of half a dozen giant screens.

Reason to celebrate

All of them had reason to celebrate by the time the Jharkhand Women's Asian Champions Trophy ended, India lifting its second title after 2016 with a 4-0 win against Japan in the final.

The lines had started outside as early as 2 p.m. and it was clear even then not everyone would be able to enter.

Just before the scheduled start of the final at 8.30 pm, one of the floodlight towers went kaput, the reason being too little load or a short circuit, depending on who you asked, leading to a delay of almost 50 minutes in the presence of Chief Minister Hemant Soren.

All those inside and outside the stadium barely moved, patiently waiting for the game to start. They were rewarded with an entertaining contest between two teams equally desperate to prove themselves.

India started like always, looking to score early and taking control and the host had its chances, especially in the 15th minute with Vandana Katariya running all the way into the Japanese circle from the left but running out of partners to pass to.

Two minutes later, Monika put Baljeet Kaur through who found Sangita Kumari on the right to get the lead.

Having been an equal contest so far, a stung Japan hit back and in the 21st minute, Shiho Kobayakawa ran past three Indian defenders to score what could easily have been a contender for the goal of

the tournament, only for an Indian referral to find it hit her body before and cancel it.

Missed chances at either end continued but it was more down to impeccable defending from either side than any mishits.

India doubled the lead when Neha deflected a Deep Grace PC in the 46th minute. Japan got a penalty stroke in the 52nd which Savita saved with an extended left leg, continuing her brilliant performance on the day as the bulwark that withstood every Japan attack.

That miss, perhaps, deflated Japan more than anything else with the side, fighting hard till then, appeared to have given up and India took advantage, adding two more to complete the formalities. It was only poetic that Vandana scored the final goal of the tournament in the final minute.

In the battle for bronze, China edged past a fighting Korea 2-1 in a rematch of the Asian Games final that saw both teams exchanging control in open play.

The results: Final: India 4 (Sangita Kumari, Neha, Lalremsiami, Vandana) bt Japan 0; 3/4 place: China 2 (Yi Chen, Tiantian Luo) bt Korea 1 (Sujin An).

Special awards:

Player-of-the-Match: Deep Grace Ekka; **Rising star of the**

match: Sangita Kumari.



♦ The Indian EXPRES

I heard their cries... then, silence': Nepal quake survivors recall moment of tragedy



oman who lost her son, daughter-in-law and grandchild,

OUR COUSINS, aged between 7 and 28, were sleeping in one oom in Jajarkot district's halanga village when the eadly earthquake struck the re-ion on Friday night. Only one of eem, 28-year-old Isha, survived. e roof of the room they were eping in collapsed, and while a was rescued from the de-s, her cousins — Merina (25),

On Sunday, Isha found herself BUSINESS AS USUAL

BY UNNY

DEA

'We champion circular economy... dairy co-op can turn into energy firm' JAYEN MEHTA

Nijjar probe ainted, where

is proof: Indian envoy's swipe at Trudeau

Rhalanga village. She suffered in-juries to her face and back. "Good in the state of the state of the state fremember everything falling on us. It was so sudden, initially, it cousins, but eventually, that stopped, and liost consciousness. Jajarkot hospital, I don't remem-ber being brought here (to film). Jajarkot hospital, I don't remem-ber being brought here (to film) are re the roof fell on us. "I bha told The hallon Express." cousins, but eventually, that stopped, and libot consciousness. When I woke up, I was at the jajarkot hospital, I don't remember the page that hospital remember the p



Virat Kohli celebrates his century at Eden Gardens in Kolkata on Sunday. Chasing 327, South Africa were bowled out for 83 runs, Partha Paul

'Stuff of dreams': B'day boy Kohli hits 49th ton, equals Sachin record

He removed his helmet, raised Sunday - had taken their toll on Sunday — had taken their toll on his body. Perhaps, scoring hum-his body. Perhaps, the toll on they don't so they don't socile him as much as they once did Perhaps, the magnetic solution of the solution of the his beautiful to the his beaut

said, choking for the right word. CONTINUED ON PAGE 2

GOVT & POLITICS

Sabse Pehle

SHAH SAYS YADAV TRUCKS HEADED to Delhi will not be allowed to enter unless MUSLIM NUMBERS INFLATED IN BIHAR CASTE SURVEY carrying essential commodities such as milk and vegetables;



IN MP, SLAMS CONG FOR IGNORING TRIBALS

Free ration for 5 more

years, can't let people

UNDERLINING THAT 80 crore people have benefited from the district on Sunday, P71
Pradhan Mantri Gartin Kabyan
Minister Natendra Modi amnounced Sunday that the fire ration scheme for another five years so that people "don't go to be Addressing a poli rally in Lakinadon in Seoni district of Madiya Prades — he day the proper sunday of the proper sunday for various reasons such that make a similar amnounce.

Madhya Pradesh's Seoni district on Sunday, P71

ment a day earlier in Durg in Cibhattsgarh on the fire for having and the proper sunday for various reasons such that the proper sunday for various reasons such as the Pradhan Mantri Government of the properties of the pro

Scheme has

ANAND MOHAN J

benefited 80 cr

people, he says

on campaign trail

Delhi air severe, curbs back: No trucks

Delhi's AQI was 454 on Sunday. REPORTS, P4

classes go online, odd-even on table

sleep hungry: Modi Admission of distress, hunger now stop using revdi term: Opp

MANOJCG

PRIME MINISTER Narend his decision is a tacit admissi that the economy is in distre and that 80 crore Indians are s facing hunger even after nin and-half years of BJP rule.

Also, schools have been asi

to hold online classes for stude

Merina were visiting sisters Urja and Upasna in Jajarkot for their For a man born for theatre, and Upasna in Jajarkot for their CONTINUED ON PAGE 2 the celebrations were sombre. brations that marked his bristand upasna in Jajarkot for their For a man born for theatre, and age — he turned 35 on NITI weighs discontinuing key

Latest edition says water scarcity a

HADIKISHANSHADMA



is critical. Much of its re-sponsibility lies with states After launching a 'one of its dex five years ago, the NITI Aayog feels data may not be fully adequate. Hence, a eleasing the re-

Let The Good Times Roll Yas Island with Veena World Chalo, Bag Bharo, Nikal Pado!

The report, published by NITI
Aayog, was prepared in association with three ministries —
Water Resources, Drinking
Water & Sanitation, and Rural

water report launched 5 yrs ago

'national problem'

NITI AAYOG, the government's tnink tank, is learnt to have marked the reports on states progress on water management for 2018-19 and 2019-20 for "in-ternal use" after having publicly monoid the pressure of distorre





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VEENA WORLD

AAYVIC DELHI, NOVEMBER 5

Indian High

INTESTING CANADIAN allega-

In an interview to Canadian wspaper The Globe and Mail, wspaper The Globe and Mail, rma, without naming nadian Prime Minister Justin ideau who first alleged Indian olvement in the killing, said o specific or relevant informa-n' has been provided "for usto ist them in the investigation".

st them in the investigation".
"Where is the evidence?
ere is the conclusion of the stigation? I would go a step ner and say now the investiirection has come from eone at a high level to say



Falling farm exports: concerns

While the effects of bans and restrictions on rice, wheat and sugar shipments are being felt in declining agri exports from India, imports are continuing unhindered. This is hurting farmers

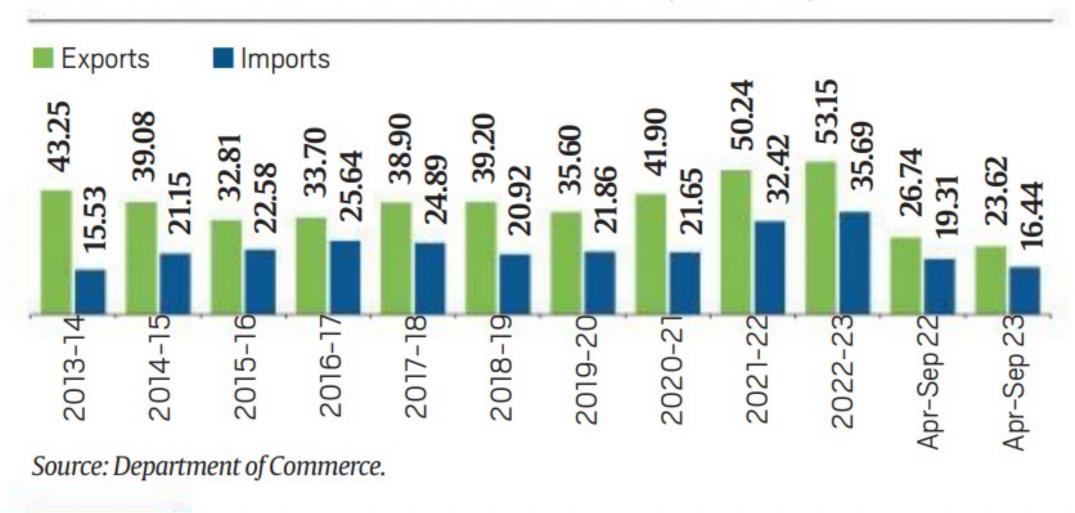




on exports of parboiled non-basmati rice too, while basmati shipments were subjected to minimum export price (MEP) curbs.

In May 2022, the government moved sugar exports from the "free" to the "restricted" category, capping the quantity of the sweetener that could go out. Since May

INDIA'S FARM EXPORTS AND IMPORTS (\$ billion)



TABLET

INDIA'S TOP AGRI EXPORT ITEMS (\$ million)

	2021-22	2022-23	Apr-Sep 22	Apr-Sep 23
Marine products	7772.36	8077.98	4119.63	3803.88
Non-basmati rice	6133.63	6356.71	3199.18	2706.58
Sugar	4602.65	5770.83	2636.25	1302.06
Basmati rice	3537.49	4787.65	2278.35	2589.98
Spices	3896.03	3785.36	1926.90	1949.78
Buffalo meat	3303.78	3193.69	1636.10	1734.40
Raw cotton	2816.24	781.43	435.87	393.82
TOTAL*	50240.21	53153.55	26736.48	23621.71

TABLE 2

INDIA'S TOP AGRI IMPORT ITEMS (\$ million)

	2021-22	2022-23	Apr-Sep 22	Apr-Sep 23
Vegetable oils	18991.62	20837.70	11097.64	8508.76
Fresh fruits	2460.33	2483.95	1236.66	1131.58
Pulses	2228.95	1943.89	595.78	1265.23
Spices	1299.38	1336.65	755.20	774.55
Cashew	1255.46	1805.67	1412.52	968.79
Raw cotton	559.55	1438.69	1081.43	401.20
Natural rubber	1032.71	937.60	542.18	380.37
TOTAL*	32422.30	35686.20	19311.21	16444.83

^{*}Includes other items.

Source: Department of Commerce.

India starts process to adopt National Security Strategy: why this is significant

SECURITY

AMRITA NAYAK DUTTA

NEW DELHI. NOVEMBER 5

AFTER YEARS of deliberations in the military and strategic community, India has kickstarted the process of bringing in a National Security Strategy.

The National Security Council Secretariat (NSCS) is collating inputs from several Central ministries and departments to stitch together the draft of the strategy before seeking the final cabinet approval for it.

The exact timeline of when the strategy would be ready is yet to be known, even as multiple ministries have already sent their inputs to the NSCS.

This is the first time that India would come out with such a strategy.

What is a National Security Strategy?

A National Security Strategy document outlines the country's security objectives, and the ways to achieve them.

Updated periodically, it defines traditional and non-traditional threats and opportunities while introducing accountability for agencies tasked with the implementation of various responsibilities.

In a nutshell, a national security strategy would guide the military as well as critical defence and security reforms, providing a holistic view of the overall national security, the threats, and the roadmap to address them.

The exact contours of the strategy being drafted are not known, but it will likely include the entire range of newer challenges and modern threats facing India, including non-traditional ones such as financial and

economic security, food and energy security, information warfare, vulnerabilities in India's critical information infrastructure, as well as those associated with supply chains and environment.

Which countries have a National figured in Security Strategy? Most developed countries EXPLAINED

Most developed countries with an advanced military and security infrastructure have a National Security Strategy in

place, updated from time to time. The US, the UK and Russia have published national security strategies.

China also has such a strategy in place, called the Comprehensive National Security, which is closely tied to its governance structure. Pakistan, too, has brought

out a National Security Policy 2022-2026, underlining its national security objectives and priority areas.

Why the efforts now?

A National Security Strategy for India has figured multiple times in military dis-

courses and has long been discussed in the strategic community, but has failed to see the light of day despite three past attempts.

Last week, top officials in the government had told *The Indian Express* that given the complex nature of the various traditional and non-traditional threats, especially when rising geopolitical tensions have given way to uncertainties, urgency was felt to draft a national security strategy.

Former Army chief General NC Vij (retd) had written in a paper in 2018 that the only political direction to the Armed Forces in existence is the Raksha Mantri's operational Directive of 2009. "It is now dated and hence needs to be revised," he had written.

Some experts have also highlighted that major military reforms should ideally flow from a national security strategy.

At an event last month, former National Security Adviser Shivshankar Menon had said that India needs a national security strategy and, in the interim, a white paper on defence detailing its thinking on important issues.

Last year, former Army chief General MM Naravane (retd), while delivering a talk at the 4th General KV Krishna Rao Memorial Lecture, said it was essential to draft a national security strategy before taking the

military command theaterisation process forward. Without such a well-defined strategy, he had said, military reforms would be like "putting the cart before the horse".

Why did India never have a National Security Strategy?

Former NSA Menon at the event last month said that in the past, three attempts were made to come out with a national security strategy, but there was hesitation at the political level.

There have been varying views in the strategic community in the past over why India has not brought out a national security strategy—from lack of a cohesive, whole-of-government effort, to the government deliberately not making public its national security objectives.

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NEW DELHI, NOVEMBER 5

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EXPLA

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The Indian Navy's most awaited and the largest sailing regatta, the Indian Navy Sailing Championship (INSC), is set to take place at Mumbai from 05 Nov to 09 Nov 23.



The Indian Naval Watermanship Training Centre (INWTC), Mumbai, one of the finest sailing facilities in the country, is geared up to host more than 100 pan-Navy participants who will test their sailing skills in five different classes of boats in three different formats of racing.

भारतीय नौसेना की सबसे बहुप्रतीक्षित और सबसे बड़ी नौकायन रेगाटा, भारतीय नौसेना सेलिंग चैम्पियनशिप (आईएनएससी), 05 नवंबर से 09 नवंबर 23 तक मुंबई में होने वाली है।

भारतीय नौसेना वाटरमैनशिप ट्रेनिंग सेंटर (आईएनडब्ल्यूटीसी), मुंबई, जो देश की बेहतरीन नौकायन सुविधाओं में से एक है, 100 से अधिक पैन-नेवी प्रतिभागियों की मेजबानी करने के लिए तैयार है, जो तीन अलग-अलग प्रारूपों में पांच अलग-अलग वर्गों की नौकाओं में अपने नौकायन कौशल का परीक्षण करेंगे। रेसिंग का.





- The FIND Festival Is an initiative by Ekya Schools, aimed at fostering a transformative dialogue in K-12 education.
- The festival is set to bring together a diverse group of stakeholders, including educators, students, school leaders, and policymakers, to collaborate and share insights that will shape the future of education.
- फाइंड फेस्टिवल एक्या स्कूल्स की एक पहल है, जिसका उद्देश्य K-12 शिक्षा में परिवर्तनकारी संवाद को बढ़ावा देना है।
- यह महोत्सव शिक्षा के भविष्य को आकार देने वाली अंतर्रष्टि को सहयोग करने और साझा करने के लिए शिक्षकों, छात्रों, स्कूल नेताओं और नीति निर्माताओं सिहत हितधारकों के एक विविध समूह को एक साथ लाने के लिए तैयार है।



Apollo 13 spacecraft recovery

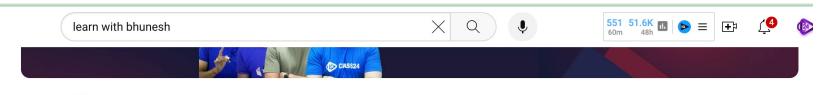
Ken Mattingly, an astronaut known for his crucial role in helping the damaged Apollo 13 spacecraft return safely to Earth, has passed away at the age of 87.

क्षतिग्रस्त अपोलो 13 अंतरिक्ष यान को पृथ्वी पर सुरक्षित लौटने में मदद करने में अपनी महत्वपूर्ण भूमिका के लिए जाने जाने वाले अंतरिक्ष यात्री केन मैटिंगली का 87 वर्ष की आयु में निधन हो गया है।

- What happened to the Apollo 13 spacecraft?
- The Apollo 13 spacecraft (on a mission to the moon landing in 1970) suffered an oxygen tank explosion, which disrupted the mission and threatened the lives of the crew. They had to abort their lunar landing
- अपोलो 13 अंतरिक्ष यान का क्या हुआ?
- अपोलो 13 अंतरिक्ष यान (1970 में चंद्रमा पर उतरने के मिशन पर) को ऑक्सीजन टैंक विस्फोट का सामना करना पड़ा, जिससे मिशन बाधित हो गया और चालक दल के जीवन को खतरा हो गया। उन्हें अपनी चंद्र लैंडिंग रोकनी पड़ी

- How was the spacecraft brought back to Earth?
- The recovery of Apollo 13 is a story of <u>teamwork, innovation</u>, and <u>determination</u>. When an oxygen tank exploded, Astronauts Jim Lovell, Jack Swigert, and Fred Haise, along with ground control and fellow astronaut Ken Mattingly, worked tirelessly to solve the crisis.
- अंतरिक्ष यान को पृथ्वी पर वापस कैसे लाया गया?
- अपोलो 13 की पुनर्प्राप्ति टीम वर्क, नवाचार और दृढ़ संकल्प की कहानी है। जब एक ऑक्सीजन टैंक में विस्फोट हुआ, तो अंतरिक्ष यात्री जिम लोवेल, जैक स्विगर्ट और फ्रेड हाइज़ ने ग्राउंड कंट्रोल और साथी अंतरिक्ष यात्री केन मैटिंगली के साथ मिलकर संकट को हल करने के लिए अथक प्रयास किया।

- They <u>converted the lunar module into a lifeboat</u>, conserved power and resources, and navigated by the stars. With their collective efforts, they managed to <u>swing around the</u> moon and <u>safely return to Earth</u>, proving the <u>resilience of human ingenuity</u> and the spirit of exploration.
- उन्होंने चंद्र मॉड्यूल को एक जीवनरक्षक नौका में बदल दिया, शक्ति और संसाधनों को संरक्षित किया, और सितारों द्वारा नेविगेट किया। अपने सामूहिक प्रयासों से, वे चंद्रमा के चारों ओर चक्कर लगाने और सुरक्षित रूप से पृथ्वी पर लौटने में कामयाब रहे, जिससे मानव प्रतिभा और अन्वेषण की भावना का लचीलापन साबित हुआ।





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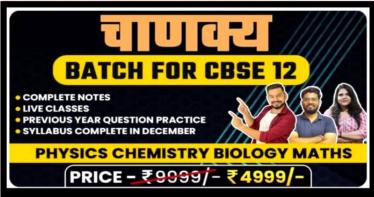


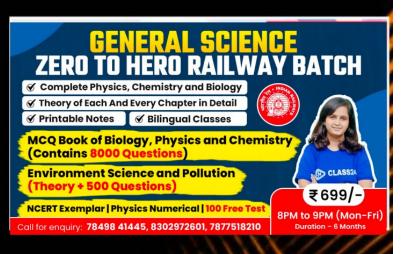




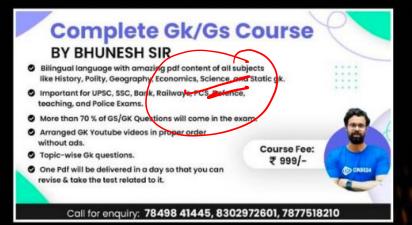














STEP 1

STEP 2

STEP 3



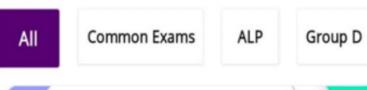
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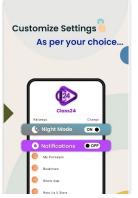


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