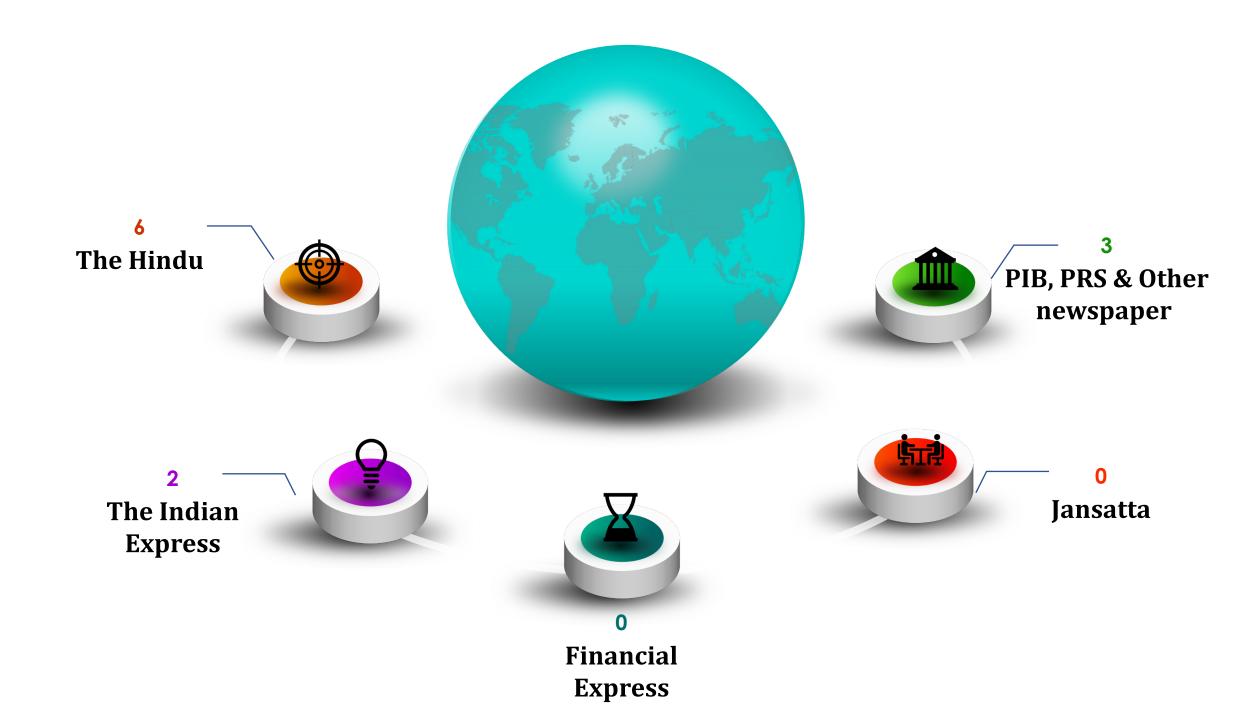
Daily Current Affairs







THE **EXPRESS**



I try to live my life one day at a time, and if I look too far in advance, I get really stressed.

NEWS > PAGE 12



doubts about EVMs'





Is India facing a stray dog crisis? Solutions go beyond euthanasia and sterilisation without discussion PINION » PAGE 9



IN BRIBE

NEWS » PAGE 12



BJP president appoints new State chiefs

NEW DELHI

BJP president J.P. Nadda on Thursday appointed party chiefs for Odisha, Delhi, Bihar and poll-bound Rajasthan In a sign of rapprochement and former CM Vasundhara Raie, BJP MP from Chittorray C.P. Joshi was appointed Rajasthan BJP chief. » Page 12

'Illegal' dargah demolished after MNS chief's call

Less than 24 hours after MNS chief Rai Thackeray sought the razing of an 'illegal' dargon in Mumbai, authorities unched a demolition drive on Thursday. » Page 14



India rejects J&J's attempt to extend patent on TB drug

Vital intervention

daitri Porecha

fighting for wider access to the crucial anti-tuberculo-sis drug Bedaquiline, the Indian Patent Office on Thursday rejected U.S. pharmaceutical giant John-

pharmaceutical giant John-son & Johnson's attempt to extend its monopoly on manufacturing the drug in India beyond July 2023. India beyond July 2023. Bedaquiline expire in July, paving the way for generic drug manufacturers such as Lupin and Macleods, among others, to produce Bedaquiline, thas ensuring to the drug. Currently, Be-to the drug. Currently, Beto the drug. Currently, Be-daquiline tablets are priced at \$400 per six-

nonth treatment course. Bedaquiline is a crucial drug in the treatment of multi-drug resistant TB pa-tients for whom the first-

Tamil Nadu Assembly re-adopts Bill against online gambling

ound 5400 for a six-month atment regimen, the prices are sly to fall

stopped working.

dulged in 'evergreening' – a strategy to extend the life of patents about to expire

in order to retain revenues

from them - by making

multiple claims in its appli

cations for patent extensions.

When the firm filed for

When the firm filed for evergereening of its patent on fumarate salt (a formulation salt of Bedanquilme), latin salt of Bedanquilme), lenged by TB sarvivors Nandita Venkatesan and Plasmeza Tisile.

"We filed a patent challenge in 2015, because weer, oral and efficacious drug Bedaquilme was available to all people who need it," Ms. Venkatesan told The Hindu.

The Hindu Bureau

The Assembly on Thursday re-adopted the Tamil Nadu Prohibition of Online Gam-bling and Regulation of On-

bling and Regulation of On-line Games Bill, 2022, moved by Chief Minister Mx. Stalin.

The Bill, 2022, The Bill Staling of the Particular Staling of the Con-traction of the Control of the west against the Constitu-tion and court judgments. The Control of the Control west against the Constitu-tion and court judgments. The Control of the Control on October 19, 2022.

This is the second time the Assembly has re-adopt-ed a Bill returned by the last veat a Bill to exempt

last year, a Bill to exempt the State from NEET was re-adopted.

AIADMK favours Bill AIADMK favours Bill The AIADMK spoke in fa-vour of the Bill, but the Mi.As, led by former Chief Minister Edappadi K. Pala-niswami, walked out when it was taken up for voting. They reasoned that the splinter group of just four Mi.As, headed by the ex-pelled AIADMK leader, O. Panneersalvam, was al.

Panneerselvam, was all owed to speak on the Bill. BJP floor leader Nainas Nagenthran said that his party was supportive of th Bill.

Rahul gets two-year jail term in defamation case

Congress to appeal against the Surat court order, as Mr. Gandhi's Lok Sabha membership hangs in the balance: Parliamentary Affairs Minister says legal experts will study the verdict



thieves have Modi sur-name" comment.

Mr. Gandhi was present as the court when the court when the court with the court was the court suspended the sentence for 30 days, so that Mr. Gandhi can appeal in a higher court. The court has given bail to him on £10,000 bond. The court has phase and that it will appeal against the wedlet.

Mr. Gandhi had allegedly made the remarks dur-ing campaigning for the

Rahul Gandhi arrives at the New Delhi airport after appearing before a court in Surat, Gujarat. REUTERS

2019 parliamentary polls. The criminal defamation case was filed against him by BJP MLA Purnesh Modi, who was earlier president of the BJP unit of Surat city. In his complaint, Mr. Pur-nesh Modi alleged that Mr. Gandhi while addressing a poll rally in 2019 in Karna-

Modi community with his remark, "How come all the thieves have Modi as the

common surname?*
Chief Judicial Magistrate H.H. Varma had last week concluded hearing final ar-guments from both sides. Mr. Gandhi had last apcourt regarding the case, filed under Indian Penal Code (IPC) Sections 499 and 500 (dealing with de-

and S00 (dealing with defamation), in October 2021 to record his statement. Thursday's development of the statement of the correction is stared by the statement of the correction is stared by the conviction is staved by a higher court.

» PAGE 12 ESS TO FIGHT BACK

COVID-19 vaccine precautionary dose uptake stands at 27%

Bindu Shajan Perappadan NEW DELHI

Despite the high coverage of primary COVID vaccina-tion (97%) and second dose (90%). India's precaution (90%), India's precaution-ary dose uptake stands at 27% (as on March 23, 2023), according to data re-leased by the Union Health Ministry. India has been currently registering a rise in new COVID-19 cases and now contributes to 18. Ans the U.S. (19.2%), Russia (22.6%) and China (8.3%) in the lead. the lead. The Union Health Minis-

continue to be the predo

evidence of an increase in hospitalisation and/or

ing variants are sub-var-iants of Omicron," Health

"All currently circulat-

retary Rajesh Bhushan

"Most of the assigned variants have very little or no significant impact on the functional attribute of the virus like increased transmissibility, disease se etc. Only a few of the var signated as Variant of Concern, Variant of Interest [VOI], or SUM [subvariant [VOI], or SUM [subvariant under monitoring] based on scientific evidence on their transmissibility, dis-ease severity or immune escape properties. XIB8.1.5 or XBR.1.16 are VOIs, which are under intense which are under intense cause of immediate con-cern." he said. According to experts, as the virus becomes endem-ic, it generates a large num-ber of variants, he said, adding, "Since the emergence of Omicron in 2021, close to 1,000 lineag-

es have been assigned, which include approxi-mately 100 recombinant cern," he said. CONTINUED ON × PAGE 12

Naveen, Mamata swear by 'strong federal structure'

Satvasundar Barik BHUBANESWAR

CONTINUED ON

West Bengal Chief Minister Mannata Bannejee met her Odisha counterpart Natural Chief West Bengal Chief Minister

among, Caned Mainteer BIP—
a list that includes Arvind
Kojrwol of the Aum Andru
Kojrwol of the Bharat Rashtra Samithi in Tethe Control of the Bharat Rashtra Samithi in Tethe Control of the Bharat Rashtra Samithi in Tethe per and an Inspecting the
size proposed for a State
size proposed for a Sta

as it was a courtesy call," the Odisha Chief Minister

said after the meeting at his residence, Naveen

The West Bengal Chief The West Bengal Chief Minister concurred. "I strongly support and ap-preciate what Naveen ji said. The federal structure should be very strong and further strengthened. We

discussed about democrat-ic rights and the nation's safety," she said.

Asked if they talked about future political align-ments, Ms. Banerjee said the Lok Sabha election is a year away and her political

Kumaraswamy up next The meeting came on the last day of Ms. Banerjee's three-day trip to Odisha af-

kata on Friday.



Rahul gets two-year jail term in defamation case

Congress to appeal against the Surat court order, as Mr. Gandhi's Lok Sabha membership hangs in the balance; Parliamentary Affairs Minister says legal experts will study the verdict

The Hindu Bureau

SURAT/NEW DELHI

Surat court on Thursday convicted former Congress chief Rahul Gandhi in a criminal defamation case and awarded him a two-year jail term over his "why all thieves have Modi surname" comment.

Mr. Gandhi was present at the court when the judge passed the verdict. The court suspended the sentence for 30 days, so that Mr. Gandhi can appeal in a higher court. The court has given bail to him on ₹10,000 bond. The Congress has said that it will appeal against the verdict.

Mr. Gandhi had allegedly made the remarks during campaigning for the



Rahul Gandhi arrives at the New Delhi airport after appearing before a court in Surat, Gujarat. REUTERS

2019 parliamentary polls. The criminal defamation case was filed against him by BJP MLA Purnesh Modi, who was earlier president of the BJP unit of Surat city. In his complaint, Mr. Purnesh Modi alleged that Mr. Gandhi while addressing a poll rally in 2019 in Karna-

taka defamed the entire Modi community with his remark, "How come all the thieves have Modi as the common surname?"

Chief Judicial Magistrate H.H. Varma had last week concluded hearing final arguments from both sides. Mr. Gandhi had last appeared before the Surat court regarding the case, filed under Indian Penal Code (IPC) Sections 499 and 500 (dealing with defamation), in October 2021 to record his statement.

Thursday's developments have put a question mark over Mr. Gandhi's Lok Sabha membership from Wayanad.

In the landmark 2013 *Lily Thomas v Union of India* judgment, the Supreme Court had clearly spelt out that a lawmaker stands immediately disqualified on attracting a sentence of two years or more unless the conviction is stayed by a higher court.

CONTINUED ON

» PAGE 12

CONGRESS TO FIGHT BACK

» PAGE 13

Defamation is the communication of a **false statement** that harms the reputation of an individual person, business, product, group, government, religion, or nation

मानहानि एक झूठे बयान का संचार है जो किसी व्यक्ति, व्यवसाय, उत्पाद, समूह, सरकार, धर्म या राष्ट्र की प्रतिष्ठा को नुकसान पहुंचाता है

- In India, defamation can both be a civil wrong and a criminal offence.
- While a civil wrong tends to provide for a redressal of wrongs by awarding compensation, a criminal law seeks to punish a wrongdoer and send a message to others not to commit such acts.
- In Indian laws, criminal defamation has been specifically defined as an offence under the Indian Penal Code (IPC) whereas the civil defamation is based on tort law
- भारत में, मानहानि दीवानी गलती और फौजदारी अपराध दोनों हो सकती है।
- जबिक एक सिविल गलत मुआवजा प्रदान करके गलितयों के निवारण के लिए प्रदान करता है, एक आपराधिक कानून एक गलत काम करने वाले को दंडित करने और दूसरों को ऐसे कार्य न करने का संदेश भेजने का प्रयास करता है।
- भारतीय कानूनों में, आपराधिक मानहानि को विशेष रूप से भारतीय दंड संहिता (आईपीसी) के तहत एक अपराध के रूप में परिभाषित किया गया है, जबकि नागरिक मानहानि अपकृत्य कानून पर आधारित है

- Criminal Defamation:
- Section 499 and 500 of Indian Penal Code,1860 deals with Criminal defamation.
- It prescribes two years' imprisonment with or without fine for a person found guilty of defamation.
- Pre colonial scenario:
- The criminal provisions have often been used to pursue political vendettas. In the colonial era, the law was used, along with sedition, to jail freedom fighters.
- So-called SLAPP (or strategic lawsuit against public participation) suits have been used in the recent past to muzzle investigative journalists and prevent critical analysis of the financial information of listed companies.
- आपराधिक मानहानि:
- भारतीय दंड संहिता, 1860 की धारा 499 और 500 आपराधिक मानहानि से संबंधित है।
- यह मानहानि का दोषी पाए जाने वाले व्यक्ति के लिए जुर्माने के साथ या उसके बिना दो साल के कारावास का प्रावधान करता है।
- पूर्व औपनिवेशिक परिदृश्य:
- राजनीतिक प्रतिशोध को आगे बढ़ाने के लिए अक्सर आपराधिक प्रावधानों का इस्तेमाल किया जाता है। औपनिवेशिक युग में, स्वतंत्रता सेनानियों को जेल में डालने के लिए देशद्रोह के साथ-साथ कानून का इस्तेमाल किया जाता था।
- तथाकथित SLAPP (या सार्वज्ञनिक भागीदारी के खिलाफ रणनीतिक मुकदमा) सूट का उपयोग हाल के दिनों में खोजी पत्रकारों को रोकने और सूचीबद्ध कंपनियों की वित्तीय जानकारी के महत्वपूर्ण विश्लेषण को रोकने के लिए किया गया है।

- In Subramanian Swamy vs Union of India case, a bench of Justices
 Dipak Misra and P C Pant approved the Constitutional validity of
 sections 499 and 500 (criminal defamation) in the Indian Penal Code,
 underlining that an individual's fundamental right to live with dignity
 and reputation "cannot be ruined solely because another individual can
 have his freedom".
- सुब्रमण्यम स्वामी बनाम भारत संघ मामले में, जस्टिस दीपक मिश्रा और पी सी पंत की पीठ ने भारतीय दंड संहिता की धारा 499 और 500 (आपराधिक मानहानि) की संवैधानिक वैधता को मंजूरी दी, जिसमें यह रेखांकित किया गया कि गरिमा और प्रतिष्ठा के साथ जीने का एक व्यक्ति का मौलिक अधिकार है। केवल इसलिए बर्बाद नहीं किया जा सकता क्योंकि दूसरे व्यक्ति को उसकी स्वतंत्रता हो सकती है"।

- The ruling noted that "the right to freedom of speech and expression is not an absolute right" and has to be "balanced with the right to reputation" which is protected under Article 21 of the Constitution".
- फैसले में कहा गया है कि "बोलने और अभिव्यक्ति की स्वतंत्रता का अधिकार पूर्ण अधिकार नहीं है" और इसे "प्रतिष्ठा के अधिकार के साथ संतुलित" किया जाना चाहिए जो कि संविधान के अनुच्छेद 21 के तहत संरक्षित है"।

• Way Forward:

- Criminal complaints should not be entertained unless the damage to reputation is prima facie, a serious
 one.
- Unnecessary complaints should be dismissed at the threshold. That apart, complaints cannot be entertained except on behalf of the "person aggrieved".
- Such a restriction must not be arbitrary or excessive, and the impairment of freedom must be 'as little as possible'.
- आगे बढने का रास्ता:
- आपराधिक शिकायतों पर तब तक विचार नहीं किया जाना चाहिए जब तक कि प्रतिष्ठा की क्षति प्रथम दृष्टया गंभीर न हो।
- अनावश्यक शिकायतों को दहलीज पर ही खारिज कर देना चाहिए। इसके अलावा, "पीड़ित व्यक्ति" की ओर से शिकायतों पर विचार नहीं किया जा सकता है।
- इस तरह का प्रतिबंध मनमाना या अत्यधिक नहीं होना चाहिए, और स्वतंत्रता की हानि 'यथासंभव कम' होनी चाहिए।

- This is not to say that defamation must not be discouraged.
- But decriminalising it will bring the IPC in accord with Article 19(2), ensuring that the means used to discourage defamation do not end up damping legitimate criticism.
- Criminal defamation laws have been **repealed in most democracies** and it is high time India modernised its law to take cognisance of new modes of communication.
- यह कहना नहीं है कि मानहानि को हतोत्साहित नहीं किया जाना चाहिए।
- लेकिन इसे डिक्रिमिनलाइज़ करने से आईपीसी अनुच्छेद 19(2) के अनुरूप हो जाएगा, यह सुनिश्चित करेगा कि मानहानि को हतोत्साहित करने के लिए इस्तेमाल किए गए साधन वैध आलोचना को समाप्त न कर दें।
- अधिकांश लोकतंत्रों में आपराधिक मानहानि कानूनों को निरस्त कर दिया गया है और अब समय आ गया है कि भारत संचार के नए तरीकों का संज्ञान लेने के लिए अपने कानून का आधुनिकीकरण करे।

India rejects J&J's attempt to extend patent on TB drug

Vital intervention

Bedaquiline, manufactured by J&J, is a crucial anti-TB drug



- India has rejected J&J's appeal to extend its patent beyond July 2023
- Currently priced at

around \$400 for a six-month treatment regimen, the prices are likely to fall

- After July, generic producers like Lupin and Macleods are likely to manufacture the drug
- Over 55,000 patients, in whom other drugs have stopped working, may benefit from Bedaquiline access
- Till March 2020, only a little over 10,000 patients received the drug

Maitri Porecha

NEW DELHI

In a victory for patients fighting for wider access to the crucial anti-tuberculosis drug Bedaquiline, the Indian Patent Office on Thursday rejected U.S. pharmaceutical giant Johnson & Johnson's attempt to extend its monopoly on manufacturing the drug in India beyond July 2023.

J&J's primary patents on Bedaquiline expire in July, paving the way for generic drug manufacturers such as Lupin and Macleods, among others, to produce Bedaquiline, thus ensuring cheaper and wider access to the drug. Currently, Bedaquiline tablets are priced at \$400 per sixmonth treatment course.

Bedaquiline is a crucial drug in the treatment of multi-drug resistant TB patients for whom the firstline drug treatment has stopped working.

Evergreening attempts

Since 2007, J&J had indulged in 'evergreening' – a strategy to extend the life of patents about to expire in order to retain revenues from them – by making multiple claims in its applications for patent extensions.

When the firm filed for evergreening of its patent on fumarate salt (a formulation salt of Bedaquiline), the practice was challenged by TB survivors Nandita Venkatesan and Phumeza Tisile.

"We filed a patent challenge in 2019, because we wanted to ensure that safer, oral and efficacious drug Bedaquiline was available to all people who need it," Ms. Venkatesan told *The Hindu*.

CONTINUED ON

» PAGE 12

India rejects J&J patent extension on TB drug

Our attempt to break the monopoly of a pharma company over this life saving drug has been successful," Ms. Venkatesan said.

'No inventive step'

J&J had sought a patent extension on the basis of its claim that it had invented the method for making a derivative of quinoline in its salt form. However, in her order passed on Thursday, Latika Dawara, Assistant Controller of Patents and Designs, stated that the invention claimed was obvious and does not involve any inventive step, and is therefore non-patentable.

Section 3(d) of the Patents Act states that salt forms and derivatives of known substances are not patentable.

According to the latest available estimates, in 2019, over 55,000 patients who had developed multi-drug resistant TB could have benefited from access to Bedaquiline. As of March 2020, only a little over 10,000 of these patients had accessed the drug.

What is The Difference?

What is Protected?	How Long?	Type of Law?	Government Body?	Common Law?	Pre-Reg. Mark	Post-Reg. Mark	Exclusive Rights
Patents	Inventions	15-20 Yrs	Federal	USPTO	"Patent Pending"	Patent Granted	Make, Use, Sell, Import
Trademarks	Brands	Indefinitely	State & Federal	USPTO	TM	®	Use within Class
Copyrights	Artwork	70-170 Yrs	Federal	U.S. Copyright Office	"Copyright 2019"	©	Reproduce, Make Derivative Works, Perform, Display
Trade Secrets	Information	Indefinitely	State & Federal	None	"Confidenti al"	None	Prevent Misappropriation

Text&Context

THE MACHINDU

NEWS IN NUMBERS

Registration of electric vehicles (EV) in India in 2023 calendar vear

2.78 In lakh. Minister Nitin Gadkari informed the Lok Sabha that electric vehicle registrations in India rose to 10.20 lakh in 2022 from 3.29 lakh in 2021. Data on Andhra Pradesh and Madhya Pradesh is included as they are in the process of migrating to the Vahan portal, PTI

Professionals heading back to office, despite hybrid work culture

professionals in India prefer to go to their offices to socialise and bond with their colleagues. About 86% of them said that they feel positive about going back to their offices, compared to a year

Sri Lanka imports eggs African Union urges from India to ensure food security

In million. The Trade Ministry allowed the use of Indian-origin eggs only in the bakery industry after necessary quality checks. In January, the Animal Production and Health Department had declined to approve egg imports from India or Pakistan as both countries saw bird-flu outbreaks in past six months. PTI

funding for Somali peacekeeping force

In \$ million. Ambassador Bankole Adeoye, the AU affairs, peace and security, said that more than 19,600-strong AU force will not be able to function properly and help the Somalis unless the current funding gap is

Tear gas, riot-control weapons cause injuries to people

In lakh. A report by the Physicians for Human Rights and International Network of Civil Liberties Organisations said since 2015, over one lakh people were injured by tear gas, while 2,000 suffered injuries from "less lethal" projectiles. AP COMPLET BY THE HINDU DATA TEAM

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India's push for semiconductors

Why is the Indian government encouraging manufacturing semiconductors in the country? What advantages do India hold? Will the government's semiconductor ambition be limited?

EXPLAINER

Aroon Deep

The story so far:

be Union Government has
disbursed around ₹1,645 crore incentives (PLI) for electronics manufacturers so far, as part of its efforts to bring in more of the electronics supply chain to India. The push for directute, is far more pressing now, as these chips are found in practically every modern electrical appliance and personal electrical appliance and personal continuous entrying to the continuous entry in the continuous entry nations are trying to turn away from China's dominance in the space, following geopolitical pressures to de-leverage emselves from supply chain

Why is the government encouraging semiconductor manufacturing? Semiconductor fabrication units, or fabs turn raw elements such as silicon into integrated circuits that are fit to be a part of practically all electronic hardware in the world. Fabs are highly

of practically all electronic hardware in capital-intensive undertakings, costing billions of dollars for large facilities, and the control of the control o Association (SIA).

It's not just India that is wary of this dominance. The U.S. passed the CHIPS Act last August, providing upwards of \$280 billion in subsidies and investments



has been combined with restrictions on the Chinese semiconductor industry.

Are fabs opening in India? The government's Invest India agency estimates that electronics manufacturing as a whole will be worth \$300 billion by the financial year 2025-26.

as a whole will be worth SIOO billion by the financial year 2025-26. While facilities for assembling finished. While facilities for assembling finished mumber, fabs for making chipsets and displays, which are crucial parts of the manufacturing process for many facilities of the manufacturing process for many electronics and information Technology Ashwin'i Valishawa said that the first semiconductor manufacturing fab would be amounted in the coming weeks.

Can semiconductors and finished products both be made in India?

The SIA, which represents the bulk of semiconductor manufacturers in the U.S. and elsewhere, said in a report with APCO Worldwide in February that India should lean on its strength in the electronics

manufacturing value chain. So-called "foundry companies", which

investments upwards of 35% of revenues, the SIA warned, and entry costs run into billions of dollars. But companies that specialise in Outsourced Semiconductor Assembly and Test (OSAT) are less

speciatibly and Test (OSAT) are less expensive to set up, and generate better margins, the SlA pointed out. The OSAT set-ups take care of the less capital-interalive parts of chipmaking, such as asseminated parts of chipmaking, such as asseminated to the set of th which account for a fraction of handsets sold in India.

What other advantage does India have? A large part of semiconductor

here, as a large portion of semiconductor

here, as a large portion of semiconductor design engineers globally are either Indian or indian-origin; chipmaking firms such as Intel and NVIDA have large such as Intel and NVIDA have large such as Intel and Available such as Intel and Business School said in a testimony to me U.S.-China Economic and Security Review

Will India's semiconductor ambition

The opening of display and semiconductor fabs is one of the strategic and economic goals of India's electronics manufacturing incentive programmes, and breaking new ground on ambitious plans connected to popular brands such as Apple is something that the Union ent and States are equally eager

to accomplish.

The government appears to be developing the parts of the ecosystem developing the parts of the ecosystem developing the parts of the ecosystem and fiscal feasibility.

Minister of State for Electronics and Information Technology Rejuce

Dialogue earlier this month that the electronics value chain would have to be an international undertaking among effective.

That is, if like-minded nations each specialise in different aspects of the semiconductor and electronics manufacturing process, and work together on distribution, that still solves the geopolitical problem of Chinese dominance without simply monopolising power with a different country. No country should "delude" themselves into thinking that they will be the "king of the hill." Mr. Chandrasekhar said.

The push for semiconductors, or integrated circuits, is far more pressing now, as these chips are found in practically seen modern electrical

While facilities for assembling finished products have been growing in number steadily, fabs for making chipsets and displays, which are crucial parts of the manufacturing process for many electronics, are rarer.

Why is India's CAMPA at odds with new IPCC report?

Why is afforestation contested in India? What does CAMPA play? Why are natural ecosystems important?

Vasudevan Mukunth

The story so far:

5 M

report released on March 20, that report released on March 20, that originates in the Synthesis Report of the Intergovernmental Panel on Climate Change (IPCC), a U.N. expert body, states that not degrading existing terms in the first place will do mor to lower the impact of the climate crisis than restoring ecosystems that have been destroyed – a finding that speaks to an increasingly contested policy in India that has allowed forests in one part of the country to be cut down and 'replaced' with those elsewhere. ems that have been

Why is afforestation contested? India has committed to adding "an additional (cumulative) carbon sink of 2.5-3 GCO2e through additional forest and tree cover by 2030", as part of its climate committee to the LLN.

Compensatory Afforestation Fund Management and Planning Authority (CAMPA), a body chaired by the

When forest land is diverted to non-forest use, such as building a dam or a mine, that land can longer provide its historical ecosystem services nor host

According to the Forest (Conservation) According to the Forest (Conservation) Act, 1980, the project proponent that wishes to divert the land must identify land elsewhere to afforest, and pay for the land value and the afforestation exercise. That land will, thereafter, be stewarded

Why does CAMPA matter? Why does CAMPA matter? The money paid sits in a fund overseen by the CAMPA. As of 2019, the fund had \$47,000 crore. The CAMPA has come under fire for

facilitating the destruction of natural ecosystems in exchange for forests to be set up in faraway places.

Why do natural ecosystems matter? Research has found that nature ecosystems sequester more carbon

'Creating single-species plantations in. say, Harvana does not really come close t say, Haryami does not really come close to a natural sal forest lost to a development project in, say, Central Indian forests in terms of biodiversity, local libelihoods, hydrological services, and sequestered carbon," Sharachchandra London London of the Policy and Covernance, Abolio Trust for Environment, Bengalum, told The Hindu by email.

by email.

"Of these, sequestered carbon recovers fastest under fast-growing plantations, but even then, it will take many decades before it approaches the level of carbon

sequestered in a natural forest," Dr. Lele said. "Within the climate action ecosystem.

How do ecosystems compare to

India has committed to adding "an additional (cumulative) carbon sink of 2.5-3 GtCO2e through additional forest and tree cover by 2030", as part of

renewable energy?
The IPCC report also found that the sole option (among those evaluated) with more mitigating potential than "reducing conversion of natural ecosystems" was solar power and that the third-highest was But many solar parks in India have earby because they limit land-use and

nearby because they limit land-use and increase local water consumption.

A 2018 study published in Nature

A 2018 study published in Nature

A 2018 study published in Nature

farms in the Western Chats had reduced the "abundance and activity of predatory bride, which consequently increased the However, the IPOC report also noted that "reducing conversion of natural chain wind power, yet still less expensive than "ecosystem restoration," afforestation, [and] restoration", for every GCOCA. The IPCC report also found that

MADRE

Registration of electric vehicles (EV) in India in 2023 calendar year

In lakh. Minister Nitin
Gadkari informed the
Lok Sabha that electric

vehicle registrations in India rose to 10.20 lakh in 2022 from 3.29 lakh in 2021. Data on Andhra Pradesh and Madhya Pradesh is included as they are in the process of migrating to the Vahan portal. PTI

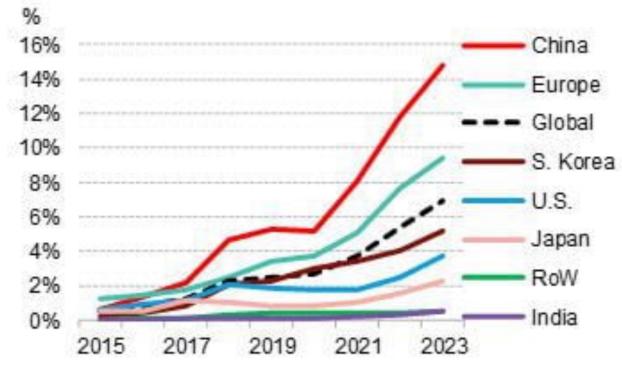
295.8 million

In a country with the third largest road network in the world, the total number of vehicles in fiscal year 2019 stood at 295.8 million.

295.8 मिलियन

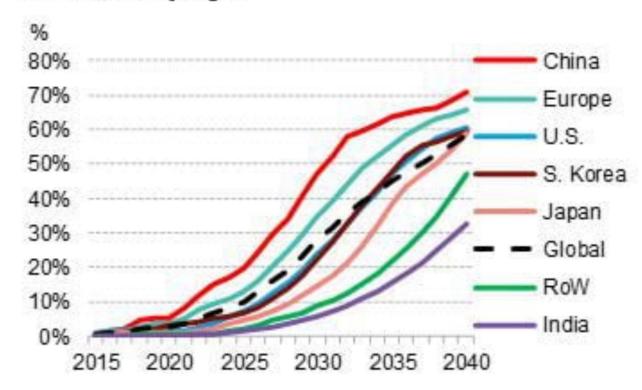
दुनिया में तीसरे सबसे बड़े सड़क नेटवर्क वाले देश में, वितीय वर्ष 2019 में वाहनों की कुल संख्या 295.8 मिलियन थी

Figure 1: Global short-term EV share of new passenger vehicle sales by region



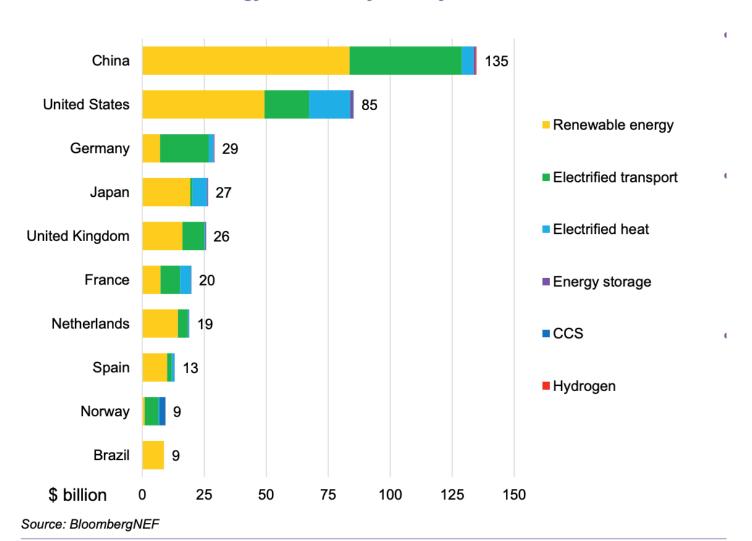
Source: BNEF. Note: Europe includes EU, U.K. and EFTA.

Figure 2: Global long-term EV share of new passenger vehicle sales by region



China invested more than any other country, with the U.S. in second place

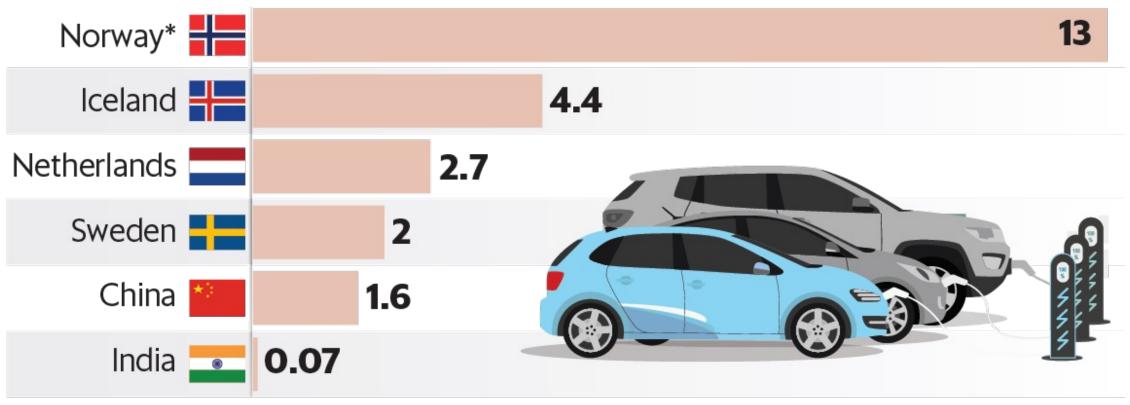
Global investment in energy transition by country, 2020



Embracing future tech

As of end 2019, the world had 7.2 million electric cars, a 40% jump over 2018. While 1.6% of cars in China are EVs, electric cars comprise just 0.07% of the cars in India. Moreover, Norway, Iceland, Netherlands and Sweden have an even higher percentage.

Electric cars as a proportion of the number of cars in a country (in %)



^{*}In case of Norway, the second-hand imported EVs (about 10% of passenger car sales in 2019) were not counted to avoid double counting with exporting countries.

Source: Global EV Outlook 2020, International Energy Agency

Fit to width

sraeli forces shot dead a Palestinian man on Thursday, the Palestinian Health Ministry said, the first killing in the occupied West Bank during Ramadan as the Army said it targeted an armed

Taiwan recalls envoy to Honduras over Foreign Minister's China visit



visit by Tegucigalpa's Foreign Minister to China. The announcem came as Honduran Foreign Minister Eduardo Enrique Reina was

TikTok chief faces grilling in U.S. Congress Committee as ban looms



TikTok CEO Shou Zi Chew will fight for the survival of his company ou 21 Chew will fight for the survival of his company he faces lawmakers over the firm? alleged ties to the nment. The 40-year-old Singaporean will address the and Commerce Committee over its fear that Beijing the site for spying or to push propagenda. APP in the U.S., as he faces law

Turkish Parliament commission approves Finland's NATO bid



retifying Finland's bid to join NATO, effectively taking Helsinki another step toward membership of the trans-Atlantic pact. The

Israel passes law protecting Netanyahu amid protests

The law would protect him from being deemed unfit to rule because of his corruption trial; it is the first of the several legislations that make up the Prime Minister's contentious judicial overhaul

srael's Parliament on Thursday passed the first of several laws that make up its conten-tious judicial overhaul as protesters opposing the changes staged another day of demonstrations aimed at raising alarm over what they see as the coun-ry's descent toward

autocracy.
Thousands of people protested throughout the protested throughout the country, blocking traffic on main highways and scuf-fing with the police in un-distribution of the police in un-distribution of the police overhaul moves ahead. Prime Minister Benja-min Netanyahu's coalition approved legislation that would protect the Israeli

eader from being deemed unfit to rule because of his corruption trial and claims of a conflict of interest sur rounding his involvement



t: Police use water canon as demonstrators take par in the "Day of Shutdown" in Tel Aviv on Thursday, REUTERS

in the legal changes.
The legal changes have split the nation between those who see the new policies as stripping Israel of its democratic ideals and those who think the country has been overruin by a liberal judiciary. The government's plan has plunged the nearly 75-yearold nation into one of its

worst domestic crises.
"Either Israel will be a lewish, democratic and

progressive state or reli-gious, totalitarian, failing, isolated and closed off. That's where they are lead-ing us," Tzipi Livni, a form-er Foreign Minister and a prominent supporter of the protest movement, told Israeli Army Radio. The opnosition is rooted

The opposition is rooted in broad swaths of society - including business leaders and top legal officials. Even the country's military, seen as a beacon of stability by Israel's Jewish majority, is enmeshed in the political conflict, as some reservists are refusing to show up for duty over the changes. Israel's international allies have also expressed concern.

The law to protect Mr. Netanyabu passed in an

Netanyahu passed in an early morning vote 61-47 in Israel's 120-seat Knesset, or Parliament. It stipulates that a Prime

Minister can only be deemed unfit to rule for health or mental reasons and that only be or his go-vernment can make that decision, it comes after the comes after the all has faced growing calls by Mr. Netanyahu oppo-nents to declare him unfit to rule over his legal pro-blems. The attorney gener-al has already barred Mr. Netanyahu from involvement in the legal overhaul, saying he is at risk of a con-flict of interest because of his corruption trial.

Following protests at High Commission, U.K. seeks to assure India on security

U.K. Foreign Secretary James Clewerly, on Tues-day, sought to allay securi-ty concerns of the Indian High Commission on a day when pro-Khalistan prot-esters, held a demonstra-tion across India House, sion in London, Mr Greer-sion in London, Mr Greersion in London. Mr Clever-ly said he was in touch with the High Commission in London and the govern-ment in New Delhi on the matter.

"Acts of violence towards staff at the Indian wards staff at the Indian High Commission in Lon-don are unacceptable and I have made our position clear to the High Commis-sioner Vikram Doraiswa-mi," Mr. Cleverly said, ad-ding that the U.K. government was working to the commission of the com-ton of the commission of the com ice and would "ensure the safety of its staff as we did for today's demonstra-



Dozens of police officers had guarded the High had guarded the High Commission on Tuesday and managed the protes-tors, who tried breaking the cordon, threw water bottles, flares and ink bal-loons across the road at the premises and the officers.

Protesters had taken down the national flag from the front of India House on Sunday, with the govern-ment accusing the U.K. authorities of "indifference" and retaliating by lowering protection for the residence of the British High Commissioner to India in New Delhi

dia in New Delhi. In Tuesday's statement, Mr. Cleverly said the U.K. would always take the se-curity of the High Commis-sion and other missions

ship was "thriving".

"We want to build deeper ties between the U.K.
and India for the future,"
he said.

Zelensky visits frontline: 'new plan of attack in the works'

Associated Press

Ukraine's President on Thursday made his third Thursday made his third visit in two days to areas that have felt the brunt of Russia's war, with a trip to gion that was retaken from the Kremlin's forces, and as a senior Rylv commander hinted that a brewing Ukrainiam counteroffensive could come "very

oon." Ukraine took back control of the Kherson region's capital, also called Kher-son. While in Kherson on son. While in Kherson on Thursday, President Volc-dymyr Zelensky met with local security officials and inspected infrastructure damaged by Russian strikes. On Wednesday, Mr. Ze-lensky visited Kharkiv, the country's second-largest

country's second-largest city in northeastern Uk-

Also on Wednesday, Mr. Zelensky met with troops in the eastern Donetsk

In Ramzan call, Saudi and Iran officials vow to meet

Agence France-Presse

The Saudi and Iranian Fo reign Ministers spoke by phone to mark the begin-

a landmark bilateral recon-ciliation deal, Rlyadh said on Thursday. The Saudi Minister, Prince Faisal bin Farhan, called Hossein Amir-Abdo-lahian and the pair "ex-changed congratulations changed congratulations on the occasion of the holy begins on Thursday in both

agreed to hold a bilateral

Visitors on tourist. business visas can apply for jobs in U.S.

Press Trust of India

The U.S. has announced The U.S. has announced that individuals travelling to the country on a business or tourist visa – B-1 and B-2 – can apply for new jobs and even appear in interviews, but the prospective employees must ensure that they have before starting a new role.

B-1 and B-2 visas are generally referred to as "B vierless of the proper support of the proper support of the property of the prop

erally referred to as "B vi-sas", and they are the most common types of visa is sued for a wide range of us-es in the U.S. The B-I visa is issued mainly for short-term business trips, while the B-2 visa is issued main-ly travelling for tourism

purposes.
In a note, and a series of

The move comes as thousands of highly skilled foreign-born

and Immigration Services (USCIS) said on Wednesday when nonimmigrant work-ers are laid off, they may not be aware of their op-tions and may, in some in-stances, wrongly assume that they have no option but to leave the country

within 60 days. The move by the USCIS came as thousands of high-ly skilled foreign-born workers, including Indians, in the U.S., have lost their jobs due to a series of

Protests over pensions take a violent turn in France

Agence France-Press PARIS

Hundreds of thousands of French workers on Thurs-day massed in a new show

day massed in a new show of anger against President Emmanuel Macron's pen-sion reforem, with protests other cities.

The numbers in Paris and other cities appeared higher than in previous protest days this year after an interview by Mr. Macron where he vowed to stick to his pension reform. The streets of Paris saw clashes between protesters

and police during a big demonstration, with security

Some 8,00,000 people

Mr. Khan condemned

कार्यातय अतिरिक्त मुक्य अभिवन्ता जन स्वास्थ्य अभिवाभिकी विधान क्षेत्र उदयपुर क्षेत्र प्रत्यम् २०२४-२-२४४ (१८३४, ई.-चैत्र: accounts photolerrajachan.gov.in क्ष्मानः असु अरु अरुए अस्ति २०२२२-२३४ (१९४५)

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The Rajasthan Small Industries Corporation Ltd.

KERALA WATER AUTHORITY e-Tender Notice

NIB No. 34/2022-23 Date 20.03.2023

FAJSCO's velocite. The approximate UBN: RSI2223SL0800034 Raj.Sammad/C/22/16601

कार्यालय अधीक्षण अधियंता सार्वजनिक निर्माण विधान यून अलवर

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DEVELOPMENT & SOIL CONSERVATION, CHURU

CORRIGENDUM of NOTICE INVITING BID

(गजेन्द्र कुमार लोड़ा)

कार्यालय अधीक्षण अभियन्ता, सार्वजनिक निर्माण विभाग, वृत बून्दी

Füller (geet 1981 1.1/2022 - 23), NBS Opén-PMOSIZAATIB (geet 1981 1.1/2022 - 2

Pakistan election body postpones Punjab polls; Imran Khan says Constitution violated intelligence agencies

Press Trust of India

Pakistan's top election bo-dy has delayed Assembly polls in the politically cru-cial Punjab province by more than five months, citreek-e-Insaf party chair-

In a late-night order is-sued on Wednesday, the Election Commission of Pakistan (ECP) said that af-Pakistan (BCP) said that af-ter considering the reports brought before the com-mission, it has concluded that it is impossible to hold and organise the elections – originally scheduled for April 30 – "honestly, justly, fairly, in a peaceful manner". manner".
The ECP said that it "he-

tion programme and fresh schedule will be issued in due course of time with poll date on October 8." The Assemblies in Puniab The Assemblies in Punjab and the Klyber Pak-htunkhwa provinces were dissobred on January 14 and the second of the government and different departments and

Mr. Khan condemned the ECP's move, calling it a violation of Pakistan's constitution. "We dissolved our 2 pro-

"We dissolved our 2 pro-vincial legislatures with ex-pectation that elections would be held in 90 days as clearly given in our Con-stitution. We did not take this action to allow a bunch of fascists to impose a reign of terror, violating the Con-stitution." be said. stitution," he said.

ANKARA

Turkish Parliament commission approves Finland's NATO bid



AFP

The Turkish Parliament's foreign affairs commission approved a Bill ratifying Finland's bid to join NATO, effectively taking Helsinki another step toward membership of the trans-Atlantic pact. The Parliament's general assembly still needs to approve the Bill and is expected to do so before it closes in mid-April. REUTERS

Member states shown in dark green

Abbreviation NATO, *OTAN*

Formation 4 April 1949 (73 years

ago)

Type Military alliance

Headquarters Brussels, Belgium

Membership 30 states [show]

Official language English and French^[1]

Secretary General Jens Stoltenberg

Chair of the NATO Lt. Admiral Rob Bauer,
Military Committee Royal Netherlands

Navy

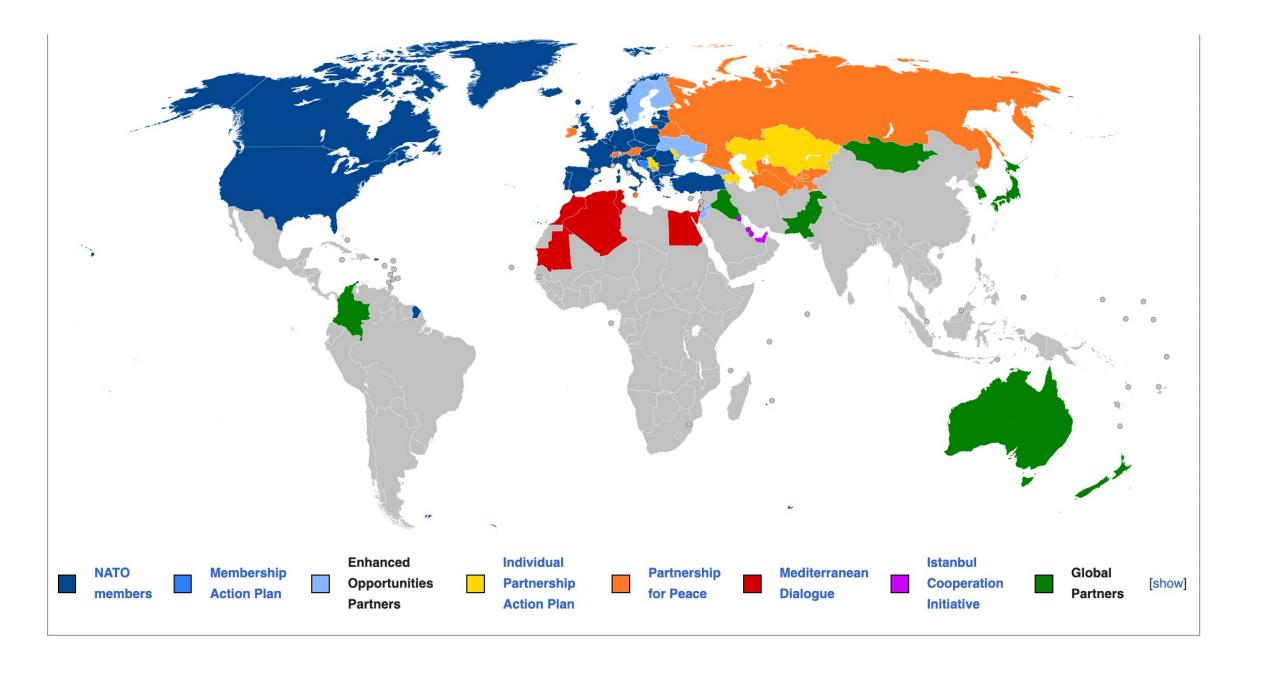
Supreme Allied General Christopher G.
Commander Cavoli, United States
Europe

Army

Supreme Allied
Commander
Transformation
Général Philippe
Lavigne, French Air and
Space Force

Expenses (2021) US\$1.050 trillion^[2]







Visitors on tourist, business visas can apply for jobs in U.S.

Press Trust of India

WASHINGTON

The U.S. has announced that individuals travelling to the country on a business or tourist visa — B-1 and B-2 — can apply for new jobs and even appear in interviews, but the prospective employees must ensure that they have changed their visa status before starting a new role.

B-1 and B-2 visas are generally referred to as "B visas", and they are the most common types of visa issued for a wide range of uses in the U.S. The B-1 visa is issued mainly for short-term business trips, while the B-2 visa is issued mainly travelling for tourism purposes.

In a note, and a series of tweets, the U.S. Citizenship

The move comes as thousands of highly skilled foreign-born workers in the U.S. were recently laid off

and Immigration Services (USCIS) said on Wednesday when nonimmigrant workers are laid off, they may not be aware of their options and may, in some instances, wrongly assume that they have no option but to leave the country within 60 days.

The move by the USCIS came as thousands of highly skilled foreign-born workers, including Indians, in the U.S., have lost their jobs due to a series of recent layoffs at companies like Google, Microsoft and Amazon.

Business

INBRIDE



Maruti to raise prices on input cost pressure, emission norms

Maruti Suzuki India Ltd. said it would raise prices Maruti Suzuki India Ltd. said it would raise prices across models come Apel, as high domestic earness models come Apel, as high domestic the country's top carmaker. The firm did not say how much prices of cars would go up by, or which models will be impacted. Maruti joins rival Tata who have also said they would raise prices by 5% and 25 respectively, as they grapple with increased costs to meet new emission norms. ...

Brakes India unveils platinum brake pads for luxury cars

Brakes India introduced platinum brake pads for luxury cars under the 'TVS Apache' brand. The pads would cater to the front and rear needs of the luxury-car segment. "We are unveiling platinum brake pads with advanced friction platinum brake pads with advanced friction technology and expanding our range to cater to the premium segment," said Sujit S. Nayak, VP, Friction and Aftermarket Business. "In the first plasse, the brake pads are being introduced for select luxury car models," he added.

Govt. to exercise green shoe option for HAL offer-for-sale

The Finance Ministry on Thursday decided to (HAL) has received a good response, with the issue subscribed 4.5 times on day one.

The OFS comprised base issue size of 1.75%, or 58.51 lakh shares, with an option to retain over-subscription of an equal quantum. If fully subscribed, the OFS would fetch about ₹2,800

GST appellate tribunal may be headed by a former SC judge

New tax tribunal expected to address pile-up of unresolved legal cases, thus lowering the burden on courts and taxpayers; single-member bench will hear disputes involving less than ₹50 lakh

Vikas Dhoot

he Goods and Ser-vices Tax (GST) Ap-pellate Tribunal is pellate Tribunal is likely to be headed by a former Supreme Court judge or a former Chief Jus-tice of a High Court and its framework may permit the resolution of disputes in-volving dues or fines of less than 250 laikh by a single-member bench.

member bench.

Amendments to the GST laws to enable the tribunal's constitution, are ex-pected to be introduced in the Lok Sabha.

Hindenburg

Dorsey's Block,

shares plunge

Hindenburg Research on Thursday disclosed short positions in Block Inc. and alleged that the Jack Dor-sey-led payments firm overstated its user num-bers and understated its

customer acquisition costs. Shares of Block slid 20%

in pre-market trading.
"Our 2-year investiga-tion has concluded that

Block has systematically ta-ken advantage of the de-

shorts Jack

Expediting dispute resolution



Fitch affirms Adani

Ports' 'BBB-' rating,

Fitch Ratings, which on Thursday affirmed its 'BBB-' rating on Adam' Ports & Special Economic Zone Ltd. (APSEZ) with a

'stable' outlook, however

flagged the contagion risks that India's largest port op-

erator faces from its parent

es, including highly con-centrated shareholding

structures across group en-tities and aggressive debt-funded investments, ex-

ernance weakness-

flags 'contagion risks'

While there will be one principal bench of the Applellate Tribunal in New Delhi and several State benches, appeals pertain glemember bench, as per

pose even the group's ro-bust cash-generative businesses such as APSEZ to higher contagion risks," Fitch Ratings said.

"Fitch's governance as-sessment... now constrains APSEZ's rating at 'BBB-',"

"has a limited near-tern

Sensex slips as banking, IT weigh on

the norms approved by the

had reached a broad con

sensus on the long-availed appellate body's functioning. Tax experts said the delay in setting up the Appellate Tribunal has led to a pile-up of unresolved legal Currendy, taxpayers are filing writ petitions to directly move the High Court, and Tanushree Roy, director at Nangda Arapellate tribunal would Appellate tribunal would

Appellate tribunal would

result in lower burden on the courts and taxpayers."

In February, the Counci

benchmark

by a correction in banking and technology stocks. SBI fell 1.69%, Kotak Bank slid 1.49%, HCL Tech lost 1.4% and Wipro shed 1.34%.

"Although most of the other Asian indices eked

the rating agency said.

The affirmation of the rating reflected Fitch's view that the Hindenburg other Asian indices eked out gains cheering that the U.S. Fed may go soft on rate hikes, local markets failed to follow suit," said report alleging governance issues at the Adani Group impact on APSEZ's cost of funding and access at the current rating level," the credit rating firm added.

Shrikant Chouhan, Head, Equity Research (Retail), Kotak Securities.

Govt. said to seek data on PSU banks' bond holdings amid global banking crisis

India has asked state-owned lenders to submit details of their bond port-folios ahead of a quarterly meeting between the go-meeting between the go-meeting between the go-meeting between the go-saturday, amid the turmoil in global banks, bankers with direct knowledge of the matters told Reuters.

"The Finance Ministry data about held-to-maturi-data about held-to-maturi-

fata about held-to-matur ty (HTM) portfolios nark-to-market (MTM) osses in trading books to identify potential stress," said a senior banker.

It is more of a precautionary exercise because tionary exercise because the government "does not want to be caught off-guard" if the crisis spirals further, the banker added.

further, the banker added.
Following the collapse
of some U.S. regional
banks, there have been
concerns about lenders
globally having to field possible HTM losses.
Indian bankers aid they
made to be the bankers and they
have strong capital levels

nave strong capital levels and the rise in government bond yields has been gradual. radual. Capital Economics, ho-

wever, said some vulnera-bilities lurk. A high ratio of low regulatory capital are causes for concern, sman Shah, deputy chief emerg-ing markets economist at Capital Economics, wrote in a note this week.

MARKETS

61.20	0.47
51.350	0.56
77.4	1.84

	PRICE	
doni Enter	3794.00	-31.40
dani Ports	454.95	-2.20
pollo Hesp	4279.05	-12.85
sian Paietx		
els Bunk		
sisi Auto	2892.95	41.80
talial Firenery	3298.00	-6.55
talai Finance	9833.05	-1.09
hard Aird	753.55	6.85
PCL	358.35	-9.49
ritamnia Ind	4242.70	-1.75
lpla .	.868.10	5.70
cel trulia	213.15	-0.60
ivis Lab	3409.10	12.45
r Reddirig Lab	4459, 95	-28.00
Scher Weters	2107.79	-35.85
rasim Ind	2405.95	-0.85
Cl. Tech	3065.99	-25.95
290	2548.85	-34.35
OFC Bank	2563.15	-12.65
IDFC Life	400.55	1.00
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SV Steel	687.60	5.95
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ower Snid Cosp	200.15	1.00
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SILIFE	7118.00	2.00
Este Sank	543.75	9.50
ion Phanna	202.15	
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Macon summer Pro-	*****	
ata Metera	100.15	-3.75
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ich Wahindo	3124.65	-6.25
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PL.	758.75	-6.45
IPL Sipeo	758.75 880.90	4.8

EXCHANGE RATES

m, on Heath 23		
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s beller	62.09	83.18
170	89.22	89.57
ritigh Paumd	1.00.50	181.50
apamese tien (300)	62.50	62.75
himmer Page	33.83	13.00
witzs Financ	89.50	89.56
ingapore Dollar	61.04	63.10
enedian Deliar	60.82	80.27
Mayrian Rings	38.56	18.65
etxalian Dellar	99.33	55.34

BoE follows Fed as central banks keep | Shriram Life

rural reach to 60% by FY25

The Hindu Bureau

inveiled a 'Mission FY25 plan to ramp up rural pe-netration and double business via digital initia

been a positive outcome.
But in a key shift driven
by the sudden bank fallures this month, the Fed's
latest policy statement no
longer says 'oragoing increases' in rates will likely
be appropriate on
hours as against 91% now.

Chalet Hotels | IT risks: Accenture to to acquire The **Dukes Retreat** for ₹133 cr. EV

The Hindu Bureau

Chalet Hotels Ltd. (CHL), a part of K Raheja Corp, said it had signed definitive agreements for acquisition of The Dukes Retreat, an 80-room resort in Lonava-la, for an enterprise value (EV) of ₹133 crore.

(EV) of TI33 crore.

Upon completion of the transaction, Chalet said it would finalise plans to expand and upgrade the property to "reposition it as an upper-upscale green, lifes-

axe 19.000 jobs, cuts net, revenue outlook

Reuters

Accenture Plc said on Thursday it would cut about 15,000 jobs and about 15,000 jobs and and profit projections, the latest sign that the worsening global economic outlook was aspiring corporate psending on IT and the profit properties of the profit properties of the properties of t



ogy budgets.
Accenture now expects
annual revenue growth to
be in the range of 8% to
compared with 8% to 11%
expected previously.

Reuters The Bank of England on Thursday followed the Fed-eral Reserve and the Swiss National Bank in raising in-

National Bank in raising in-terest rates, as policymak-ers ploughed on with their fight against inflation in the face of the instability that rocked the global banking system this month.

around the globe, ensnar-ing Europe's 167-year-old Credit Stisse AG. While recent market jit-ters have eased, they have prompted investors to ad-just to more challenging economic and bending con-ditions ahead.

The index of top Euro-pean banks was down 1.7%, with German banking giants Deutsche Bank and Commerzbank falling 2.1% and 3.2%, respectively. The European central

The European central banks raised rates a day after the Fed logged another quarter point increase, well saying the banking industry stress could trigger a credit crunch with "significant" implications for a factor of the property indicated it was on the verge of pausing further increases.

to ramp up increasing rates amid banking turmoil reassure investors about the soundness of the bank-

ing system, saying that the management of Silicon Val-ley Bank "failed badly". "These are not weaknesses Shriram Life Insurance has

that are running broadly through the banking sys-tem," he said, adding that the takeover of Credit Suisse seemed to have been a positive outcome.

Sport

Nikhat, Lovlina, Nitu and Saweety slug their way to the threshold of glory

WORLD BOXING

Y.B. Sarangi

It was a treat for the Indian fans as all the four home boxers, including World champion Nikhat Zareen (50kg) and Olympic medal-list Lovlina Borgohain (75kg), recorded creditable wins to book their berths in the finals of the World women's boxing cham-pionships at the K.D. Jad-hav Hall here on Thursday.



Asian champion Alua Bal-kibelows 6.2 The hardshi-ting Alua took the opening round, but the undaunted Nitu, who had lost to the same opponent in the pre-vious edition, ralliked to ex-ecutive quick combinations for a consecutive fi-Asian champion Alua Bal-kibekova 5.2. The hard-hit-ting Alua took the openius of the next two.

In the Szleg gold medallist, raised her game to beac Colombian World

nal in a different weight.

Utilising the experience
of her victory over southpaw Ingrit in a 2019 Big.
Bout League match, Nikhat
moved well and used an effactive, right, straight, and. fective right straight and some combinations to claim the first two rounds before playing it safe in the

na's multiple World and Olympic medallist Li Qian 4-1. Lovlina connected punches from long range to win the first round beto win the first round be-fore Li's power-packed punches gave her the se-cond. The Indian used the double-left-jab-and-right combination in the third to ensure victory. Saweety showcased her headshots to edge out Australian Em-ma Sue Greentree 4-3.

Lovlina outsmarted Chi-

BENGALURU: Auspicious Queen, who is in fine nick, may scere an encore in the Governor's Trophy (1,600m), the feature event of the form on Friday (March 24). There will be no false rails.

Auspicious Queen primed to deliver in

Governor's Trophy on concluding day

a. STREEPING PORNT

CHAMPHON JOCKEY TROPHY

OUTV. 16. (1.400m), rated 20 to

(UIV. 16. (1.400m), rated 20 to

Chain of Thoughes (0.1400m)

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Specialized (7) Stress (1.400m)

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(10) Saftran K 26. 5. my College (1.400m)

ACCUMILATE, 2. CAPBATE, 3. POI

59, 5. Musterion (9) Scinath 59, 6. Agens (7) Aksiloy K St.5, 7. Cassars Palace (5) Arvind K 58, 8. Air Dis-play (6) Vivek S75, 9. Belvedere (6) Neeraj S7 and 10. Aquamatic (1) L.A. Rouario 56. L. KING OF WAR, 2. AQUAMATIC, 3. SCPER RUPPLAN

PAIRCE (ST ATTIME K S.S. A. E. P. Dieplay GO Vond. 575. S. Berkwise J.
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un 1824, 8. Tasaic Chann (7) Days
Un 1824, 8. Tasaic Chann (7) Days
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K 54, 8. Landrathreamson (7) Early
E

GST appellate tribunal may be headed by a former SC judge

New tax tribunal expected to address pile-up of unresolved legal cases, thus lowering the burden on courts and taxpayers; single-member bench will hear disputes involving less than ₹50 lakh

Vikas Dhoot

NEW DELHI

he Goods and Services Tax (GST) Appellate Tribunal is likely to be headed by a former Supreme Court judge or a former Chief Justice of a High Court and its framework may permit the resolution of disputes involving dues or fines of less than ₹50 lakh by a singlemember bench.

Amendments to the GST laws to enable the tribunal's constitution, are expected to be introduced in the Lok Sabha.

Expediting dispute resolution

A new appellate tribunal headed by ex-judges is aimed at expediting resolution of GST disputes



- Amendments to GST laws to enable tribunal's constitution expected to be introduced in LS
- Low value cases (up to ₹50 lakh) may be handled by single-member benches
- Currently, taxpayers file writ petitions burdening the High Courts

While there will be one principal bench of the Appellate Tribunal in New Delhi and several State benches, appeals pertaining to disputes of less than ₹50 lakh that don't deal with a question of law could be decided by a single-member bench, as per

the norms approved by the GST Council.

In February, the Council had reached a broad consensus on the long-awaited appellate body's functioning. Tax experts said the delay in setting up the Appellate Tribunal has led to a pile-up of unresolved legal matters over the tax.

"Currently, taxpayers are filing writ petitions to directly move the High Court," said Tanushree Roy, director at Nangia Andersen. "Establishment of Appellate tribunal would result in lower burden on the courts and taxpayers."

♦TheIndian **EXPRES**:

FRIDAY, MARCH 24, 2023, NEW DELHI, LATE CITY, 22 PAGES

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Union Bank

BUSINESS AS LISUAL BY UNNY

song quiet water room Surret to Supreme Court...

Court suspends him 30 days to

KAMAAL SAIYED





RITU SARIN OF THE INDIAN EXPRESS ON ICLI BOARD COVID: INCREASE IN SUB-VARIANT XBB.1.16 CASES ARRESTED FAKE PMO

OFFICIAL HELD MEET ON G20, SAYS CONG

SENTENCED TO TWO YEARS IN JAIL BY SURAT COURT

Rahul convicted in defamation case, Cong scrambles to keep him in House

sentence, gives file an appeal

appellate court stays the conion and suspends the jail term He was present in the cour

guilty. In his order, CJM Verma said the complainant — it was lodged by Pumesh Modi, BJP MLA from Surat West and a former Cujarat minister — "has proved his case without doubt" based on witness

tements, documentary and tronic evidence. The case against Gandhi was over his remark "Why do all thieves have the name Modi?". He made the remark on April 13, 2019 during an election rally in

Kolarin Karnataka. his rem In its order in Gujarati, the surnam in its order in Gujaran, the court observed that "the come As per Section 8(3) of the plaint was lodged not only Representation of People Act, CONTINUEDON PAGE 4 1951," apresonconvicted of any CONTINUEDON PAGE 4 1951, "apresonconvicted of any CONTINUEDON PAGE 4 1951," apresonconvicted of any CONTINUEDON PAGE 4 1951, "apresonconvicted of any CONTINUEDON PAGE 4 1951," apresonconvicted of any CONTINUEDON PAGE 5 1951, and its insistence ones a poology.



Congress leader Rahul Gandhi on his arrival at Delhi airport on Thursday, Galendre Yodey RELATED REPORTS, PAGES 11, 17

Can avert disqualification Surat boost for BJP attack as MP if conviction stayed on UK remarks: 'Congress

INOCASING. THE process or immediate disqualification from Parliament, a
Surat court Thursday
sentenced Congress MP
Rahul Candhi to two
years in jail in a 2019
defamation case over

ontinue to be disqualified for a further period of six years since his re-lease." However, the dis-qualification can be re-

Rabul Gandhi to two
years in jail in a 2019
defamation case over
his remarks a shout the "Modisurname.
As per Section 8(3) of the
As per Section 8(3) of the
Chiefjodical Magistrate HH

Unsustainable judgment. will challenge legally and politically, says Cong

dgment. While alleging that the gov-

"efforts to create a chilling effect, a throttling effect, strangulating

erment may move swiftly to dis-qualify Rahul from Lok Sabha it. "While he was in Surat for the

doesn't respect institutions' They want freedom to abuse: Prasad

LIZ MATHEW

Rahul Gandhi for defamation gives a fillip to the BJP's campaign criticisinbg his remarks in the UK dits insistence on his apology. Given that the verdict dis-

higher court stays or quashes the comviction — BJP leaders held NEW DELHI, MARCH 23 meetings to discuss future steps. So did officials in the Lok Sabba Secretariat. Later in the evening, Prime Minister Narendra Modi and his ministers met Speaker Om Birla. After the meeting Parliamentary Affairs Minister Pralhad Joshi

such incidents.
Around 2,000 protesters

Police: Amritpal was in Haryana, woman who gave shelter arrested

THE POLICE have arrested a 30 year-old woman from Haryana for allegedly providing shelter to Amritpal Singh, the Waris Punjab Dechief who has been on

Punjab De chief who has been on the run fir six days, and his as-sociate at the home in the sociate at the home in the Sulchchain Singh Gill said. Police identified the woman as Baijlir Kaur, and said that as Baijlir Kaur, and said that construction house in Sidhartha Colony in the Shahbad Markanda area on the night of March 19 – a day after evading



UK to review security at India House; mounted police, chopper at protest

at the Indian High Commission here following "unacceptable" acts of violence by pro-Khalistan lames Cleverly has said asset ing that the gow

waving Khalistan flags de-scended upon the Indian mis-sion here on Wednesday for a

use came under attack, the testers were barricaded ass the road with uniformed ers standing guard and pa

sday, Cleverly said Metropolitan Police to ma changes needed to ensure ti urity of the mission's staff





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REPORT REVEALS 40-75% FAKE ACCOUNTS

Shortly after Adani, Hindenburg shorts Jack Dorsey's firm Block

REUTERS March 23

HINDENBURG RESEARCH ON Thursday disclosed short positions in Block and alleged that the Jack Dorsey-led payments firm overstated its user numbers and understated its customer acquisition costs.

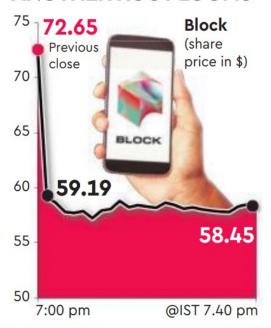
Shares of Block slid 20% to \$57.85 in premarket trading following the report. If losses hold through the session, shares could record their steepest percentage fall since March 2020.

"Our 2-year investigation has concluded that Block has systematically taken advantage of the demographics it claims to be helping," the short seller said in a note published on its website.

Block did not immediately respond to a *Reuters* request for comment.

The US short-seller, behind a market rout of over \$100 billion in the Adani Group, said in its report that former Block employees estimated that





●INSIDE

Adani Power under short term ASM again PAGE 10 40%-75% of accounts they reviewed were fake, involved in fraud, or were additional accounts tied to a single individual. *Reuters* could not verify the claims raised in the report.

Hindenburg added that Block "obfuscates" how many individuals are on the Cash App platform by reporting misleading "transacting active" metrics filled with fake and duplicate accounts.

Hinderburg added that cofounders Jack Dorsey and James McKelvey collectively sold over \$1 billion of stock during the pandemic as the company's share price soared.

Other executives including finance chief Amrita Ahuja and the lead manager for Cash App Brian Grassadonia also dumped millions of dollars in stock, the report added.

About 5.2% of Block's free float shares were in short position as of March 22, according to Ortex data.

Continued on Page 2



Siddhartha Mohanty tipped to be new LIC chairman

AN INDIAN GOVERNMENT body tasked with picking candidates for top positions in state-run banks and financial institutions has recommended Siddhartha Mohanty as the chairman of Life Insurance Corporation of India (LIC), the Financial Services Institutions Bureau said on Thursday. REUTERS

1

Section (109) of the Goods and Service Tax Act, 2017 (CGST Act) mandates the constitution of a GST Appellate Tribunal (GSTAT) and its Benches. 2

The GST Appellate Tribunal (GSTAT) is a specialized authority to resolve disputes related to GST laws at the appellate level.

3

माल और सेवा कर अधिनियम, 2017 (सीजीएसटी अधिनियम) की धारा (109) जीएसटी अपीलीय न्यायाधिकरण (जीएसटीएटी) और इसकी पीठों के गठन को अनिवार्य बनाती है। 4

GST अपीलीय न्यायाधिकरण (GSTAT) अपीलीय स्तर पर GST कानूनों से संबंधित विवादों को हल करने के लिए एक विशेष प्राधिकरण है।

- The principal bench of the GSTAT will be located in New Delhi, and each state
 can decide on the number of benches or boards they require, subject to GST
 council approval.
- The bench will consist of two judicial members and two technical members, with the selection panel including a senior judicial member from the State High Court.
- जीएसटीएटी की प्रधान पीठ नई दिल्ली में स्थित होगी, और प्रत्येक राज्य जीएसटी परिषद अनुमोदन के अधीन आवश्यक बेंचों या बोर्डों की संख्या पर निर्णय ले सकता है।
- बेंच में दो न्यायिक सदस्य और दो तकनीकी सदस्य शामिल होंगे, जिसमें राज्य उच्च न्यायालय के एक वरिष्ठ न्यायिक सदस्य सहित चयन पैनल होगा।

- Under GST, if a person is not satisfied with the decision passed by any lower court, an appeal can be raised to a higher court, the hierarchy for the same is as follows (from low to high):
- 1. Adjudicating Authority
- 2. Appellate Authority
- 3. Appellate Tribunal
- 4. High Court
- 5. Supreme Court
- जीएसटी के तहत, यदि कोई व्यक्ति किसी निचली अदालत द्वारा पारित निर्णय से संतुष्द् नहीं है, तो उच्च न्यायालय में अपील की जा सकती है, उसके लिए पदानुक्रम इस प्रकार है (निम्न से उच्च):
- निर्णायक प्राधिकरण
- अपीलीय प्राधिकरण
- अपील अधिकरण
- हाईकोर्ट
- सुप्रीम कोर्ट

- Why need such Tribunal?
- **Unburden judiciary:** GST Appellate Tribunal will help resolve the rising number of disputes under the 68-month old indirect tax regime that are now clogging High Courts and other judicial fora.
- Improve efficiency of GST System: Overall, the establishment of the GST Appellate Tribunal is expected to improve the efficiency and effectiveness of the GST system in India.
- ऐसे न्यायाधिकरण की आवश्यकता क्यों है?
- बोझमुक्त न्यायपालिका: जीएसटी अपीलीय न्यायाधिकरण 68 महीने पुरानी अप्रत्यक्ष कर व्यवस्था के तहत विवादों की बढ़ती संख्या को हल करने में मदद करेगा जो अब उच्च न्यायालयों और अन्य न्यायिक मंचों को बंद कर रहे हैं।
- GST प्रणाली की दक्षता में सुधार: कुल मिलाकर, GST अपीलीय न्यायाधिकरण की स्थापना से भारत में GST प्रणाली की दक्षता और प्रभावशीलता में सुधार होने की उम्मीद है।

Independent mechanism: The proposed Tribunal will provide an independent and efficient mechanism for resolving disputes related to GST.

Avoid tax evasion: It will help to expedite the resolution of disputes, reduce the burden on the judiciary, and promote greater certainty and predictability in the GST system.

स्वतंत्र तंत्र: प्रस्तावित ट्रिब्यूनल जीएसटी से संबंधित विवादों को हल करने के लिए एक स्वतंत्र और कुशल तंत्र प्रदान करेगा।

कर चोरी से बचें: यह विवादों के समाधान में तेजी लाने, न्यायपालिका पर बोझ को कम करने और जीएसटी प्रणाली में अधिक निश्चितता और पूर्वानुमेयता को बढ़ावा देने में मदद करेगा।

Income Tax Appellate Tribunal (ITAT) was the first Tribunal in India to be created on 25th January, 1941 and is also known as 'Mother Tribunal'! And it functions under the Ministry of Law and Justice and not the obvious looking Ministry of Finance.

इनकम टैक्स अपीलेट ट्रिब्यूनल (ITAT) 25 जनवरी, 1941 को बनाया गया भारत का पहला ट्रिब्यूनल था और इसे 'मदर ट्रिब्यूनल' के नाम से भी जाना जाता है! और यह कानून और न्याय मंत्रालय के तहत कार्य करता है न कि स्पष्ट दिखने वाले वित्त मंत्रालय के तहत।



- Recently, the Prime Minister has unveiled a Vision Document to roll out high-speed 6G Communication Services by 2030 and also launched Bharat 6G Project to identify and fund research and deployment of the next-generation technology in India.
- हाल ही में, प्रधान मंत्री ने 2030 तक हाई-स्पीड 6G संचार सेवाओं को रोल आउट करने के लिए एक विजन डॉक्यूमेंट का अनावरण किया है और भारत में अगली पीढ़ी की तकनीक की पहचान और अनुसंधान और तैनाती के लिए भारत 6G प्रोजेक्ट भी लॉन्च किया है।

6G: Vision & mission

- Mission to run in two phases till 2030
- To make India 6G R&D, manufacturing hub
- At 1Tbps, 6G to be 100 times faster than 5G
- Network to be built upon 5G infrastructure; be more reliable and affordable
- Suitable spectrum to be be identified
- Hyper personalised networks, drone communications, and holographical on cards

- मिशन 2030 तक दो चरणों में चलेगा
- भारत को 6G R&D, मैन्युफैक्चरिंग हब बनाने के लिए
- 1Tbps पर 6G 5G से 100 गुना तेज होगा
- 5जी इंफ्रास्ट्रक्चर पर बनेगा नेटवर्क; अधिक विश्वसनीय और किफायती हो
- उपयुक्त स्पेक्ट्रम की पहचान की जानी है
- हाइपर पर्सनलाइज्ड नेटवर्क, ड्रोन संचार और कार्ड पर होलोग्राफिक

About 6G Technology

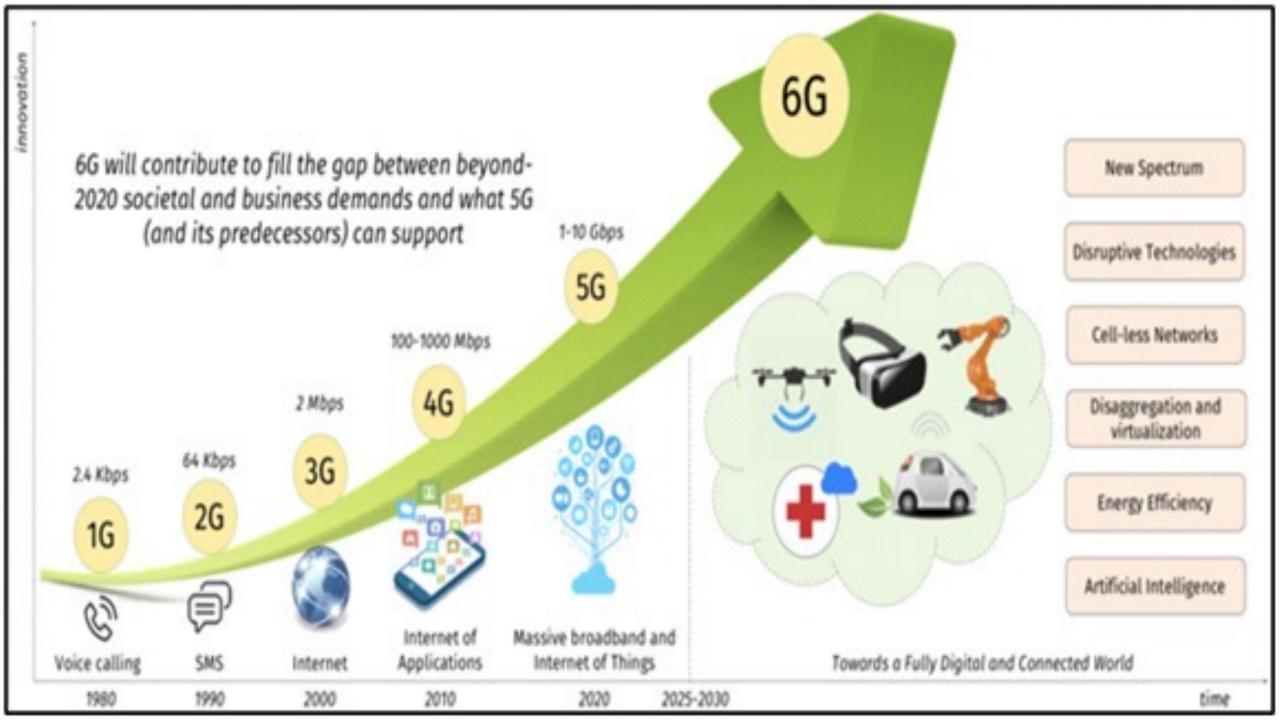
- G (sixth-generation wireless) is the successor to 5G cellular technology.
- 6G networks will be able to use higher frequencies than 5G networks and provide substantially higher capacity and much lower latency.
- One of the goals of 6G internet will be to support one microsecondlatency communication.

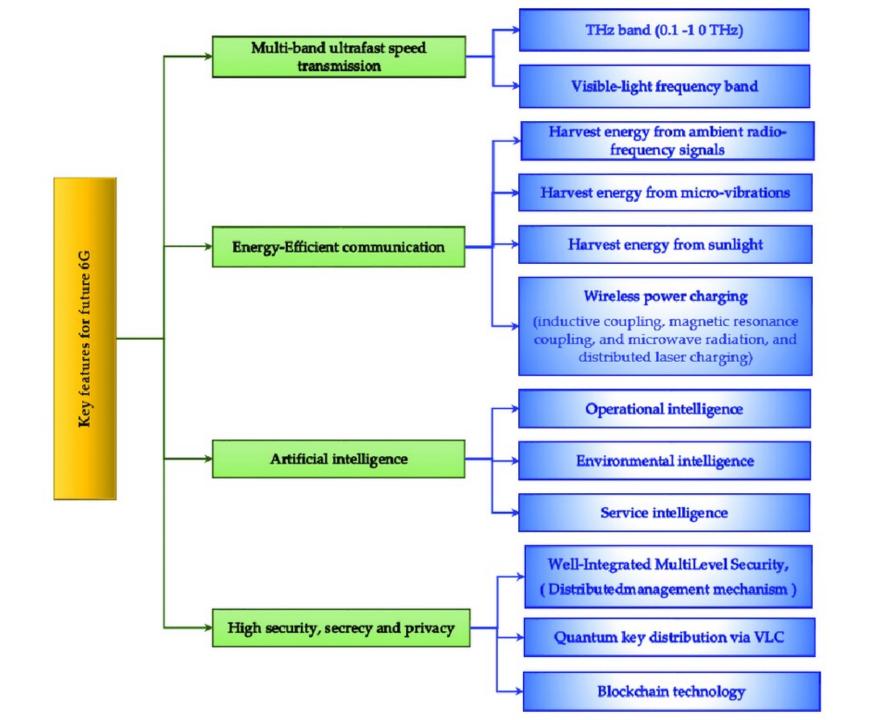
- G (छठी पीढ़ी का वायरलेस) 5G सेलुलर तकनीक का उत्तराधिकारी है।
- 6G नेटवर्क 5G नेटवर्क की तुलना में उच्च आवृत्तियों का उपयोग करने में सक्षम होंगे और काफी अधिक क्षमता और बहुत कम विलंबता प्रदान करेंगे।
- 6G इंटरनेट के लक्ष्यों में से एक एक माइक्रोसेकंड-विलंबता संचार का समर्थन करना होगा।

- This is 1,000 times faster or 1/1000th the latency than one millisecond throughput.
- Working in conjunction with artificial intelligence (AI), the computational infrastructure of 6G will autonomously determine the best location for computing to occur; this includes decisions about data storage, processing and sharing.
- यह एक मिलीसेकंड थ्रूपुट की तुलना में 1,000 गुना तेज — या विलंबता का 1/1000वां — है।
- आर्टिफिशियल इंटेलिजेंस (AI) के साथ काम करते हुए, 6G का कम्प्यूटेशनल इंफ्रास्ट्रक्चर कंप्यूटिंग होने के लिए स्वायत्त रूप से सर्वोत्तम स्थान निर्धारित करेगा; इसमें डेटा संग्रहण, संसाधन और साझाकरण के बारे में निर्णय शामिल हैं।

- 6G is expected to support data rates of 1 terabyte per second.
- It seeks to utilize the terahertz band of frequency which is currently unutilized.
- Terahertz waves fall between infrared waves and microwaves on the electromagnetic spectrum.
- These waves are extremely tiny and fragile, but there's a huge amount of free spectrum up there that would allow for spectacular data rates.

- 6G के प्रति सेकंड 1 टेराबाइट की डेटा दरों का समर्थन करने की उम्मीद है।
- यह आवृत्ति के टेराहर्ट्ज़ बैंड का उपयोग करना चाहता है जो वर्तमान में अप्रयुक्त है।
- इलेक्ट्रोमैग्नेटिक स्पेक्ट्रम पर टेराहर्ट्ज़ तरंगें इन्फ्रारेड तरंगों और माइक्रोवेव के बीच आती हैं।
- ये तरंगें बेहद छोटी और नाजुक होती हैं, लेकिन ऊपर बड़ी मात्रा में मुफ्त स्पेक्ट्रम होता है जो शानदार डेटा दरों की अनुमति देता है।





Significance

The project will provide an R&D platform to start-ups, researchers, industry and other broadband wireless applications in India like e-Governance, smart cities, rural Broadband or other Digital India initiatives under Atmanirbhar Bharat.

• यह परियोजना भारत में स्टार्ट-अप, शोधकर्ताओं, उद्योग और अन्य ब्रॉडबैंड वायरलेस अनुप्रयोगों जैसे ई-गवर्नेंस, स्मार्ट सिटी, ग्रामीण ब्रॉडबैंड या अन्य डिजिटल इंडिया पहलों को आत्मनिर्भर भारत के तहत एक आर एंड डी मंच प्रदान

Indian Telecom sector

- India is the world's secondlargest telecommunications market.
- The total subscriber base,
 wireless subscriptions as well
 as wired broadband
 subscriptions have grown
 consistently.

- भारत दुनिया का दूसरा सबसे बड़ा दूरसंचार बाजार है।
- कुल सब्सक्राइबर आधार, वायरलेस सब्सक्रिप्शन के साथ-साथ वायर्ड ब्रॉडबैंड सब्सक्रिप्शन में लगातार वृद्धि हुई है।

- Tele-density stood at 84.88%, as of April 2022, total broadband subscriptions grew to 788.77 million until April 2022 and total subscriber base stood at 1.16 billion in April 2022.
- Gross revenue of the telecom sector stood at Rs. 64,801 crore (US\$ 8.74 billion) in the first quarter of FY22.
- अप्रैल 2022 तक टेली-घनत्व 84.88% था, अप्रैल 2022 तक कुल ब्रॉडबैंड सब्सक्रिप्शन बढ़कर 788.77 मिलियन हो गया और अप्रैल 2022 में कुल सब्सक्राइबर बेस 1.16 बिलियन हो गया।
- दूरसंचार क्षेत्र का सकल राजस्व रु। FY22 की पहली तिमाही में 64,801 करोड़ (US\$ 8.74 बिलियन)।

Telecom Sector Gross Revenue (US\$ billion)



Some of the developments in the recent past

- In January 2022, Google made a US\$ 1 billion investment in Airtel through the India Digitization Fund.
- In September 2021, Bharti Airtel announced an investment of Rs. 50 billion (US\$ 673 million) in expanding its data centre business to meet the customer demand in and around India.
- In the first quarter of FY21, customer spending on telecom services increased 16.6% y-o-y, with over three-fourths spent on data services.

Some of the developments in the recent past

- जनवरी 2022 में, Google ने India Digitization Fund के माध्यम से Airtel में US\$ 1 बिलियन का निवेश किया।
- सितंबर 2021 में, भारती एयरटेल ने रुपये के निवेश की घोषणा की। भारत और उसके आसपास ग्राहकों की मांग को पूरा करने के लिए अपने डेटा सेंटर व्यवसाय का विस्तार करने के लिए 50 बिलियन (US\$ 673 मिलियन)।
- FY21 की पहली तिमाही में, डेटा सेवाओं पर तीन-चौथाई से अधिक खर्च के साथ, दूरसंचार सेवाओं पर ग्राहक खर्च में 16.6% की वृद्धि हुई।

- This spike in consumer
 spending came despite of the
 COVID-19 disruption and
 lack of access of offline
 recharges for a few weeks
- India had over 500 million
 active internet users (accessed
 Internet in the last one month)
 as of May 2020.

- उपभोक्ता खर्च में यह उछाल COVID-19 व्यवधान और कुछ हफ्तों के लिए ऑफ़लाइन रीचार्ज तक पहुंच की कमी के बावजूद आया है
- मई 2020 तक भारत में 500
 मिलियन से अधिक सिक्रिय इंटरनेट
 उपयोगकर्ता (पिछले एक महीने में इंटरनेट का उपयोग किया गया) थे।

Daily Current Affairs

ICMR releases guidelines for artificial intelligence use in the health sector

- The Indian Council of Medical Research (ICMR) has released Ethical Guidelines for AI in Healthcare and Biomedical Research to guide the effective, safe development/deployment/adoption of AI-based technologies.
- इंडियन काउंसिल ऑफ मेडिकल रिसर्च (आईसीएमआर) ने एआई-आधारित तकनीकों के प्रभावी, सुरक्षित विकास/तैनाती/अपनाने का मार्गदर्शन करने के लिए हेल्थकेयर और बायोमेडिकल रिसर्च में एआई के लिए नैतिक दिशानिर्देश जारी किए हैं।

Keypoints

- It outlined 10 key patient-centric ethical principles for AI application in the health sector for all stakeholders involved.
- These are accountability and liability, autonomy, data privacy, collaboration, risk minimisation and safety, accessibility and equity, optimisation of data quality, nondiscrimination and fairness, validity and trustworthiness.
- इसमें शामिल सभी हितधारकों के लिए स्वास्थ्य क्षेत्र में एआई अनुप्रयोग के लिए 10 प्रमुख रोगी-केंद्रित नैतिक सिद्धांतों को रेखांकित किया गया है।
- ये उत्तरदायित्व और उत्तरदायित्व, स्वायत्तता, डेटा गोपनीयता, सहयोग, जोखिम न्यूनीकरण और सुरक्षा, पहुंच और इक्विटी, डेटा गुणवत्ता का अनुकूलन, गैर-भेदभाव और निष्पक्षता, वैधता और भरोसेमंदता हैं।

- The ethical review process came under the domain of the ethics committee which assesses a host of factors including data source, quality, safety, anonymization, etc.
- नैतिक समीक्षा प्रक्रिया आचार समिति के अधिकार क्षेत्र में आती है जो डेटा स्रोत, गुणवत्ता, सुरक्षा, गुमनामी आदि सहित कई कारकों का आकलन करती है।

Role/ Applications of AI in healthcare:

- AI programs have been developed and applied to practices such as diagnosis processes, treatment protocol development, drug development, personalized medicine, and patient monitoring and care.
- Medical Research AI can be used to analyse and identify patterns in large and complex datasets faster and more precisely than has previously been possible.
 - It can also be used to search the scientific literature for relevant studies, and to combine different kinds of data for example, to aid drug discovery.

Role/ Applications of AI in healthcare:

- एआई कार्यक्रम विकसित किए गए हैं और निदान प्रक्रियाओं, उपचार प्रोटोकॉल विकास, दवा विकास, वैयक्तिकृत दवा, और रोगी की निगरानी और देखभाल जैसी प्रथाओं पर लागू किए गए हैं।
- चिकित्सा अनुसंधान एआई का उपयोग बड़े और जटिल डेटासेट में पैटर्न का विश्लेषण और पहचान करने के लिए पहले की तुलना में तेजी से और अधिक सटीकता से किया जा सकता है।
 - इसका उपयोग प्रासंगिक अध्ययनों के लिए वैज्ञानिक साहित्य को खोजने के लिए, और विभिन्न प्रकार के डेटा को संयोजित करने के लिए भी किया जा सकता है, उदाहरण के लिए, दवा की खोज में सहायता के लिए।

- Researchers have developed an AI 'robot scientist' called Eve which is designed to make the process of drug discovery faster and more economical.
- Clinical Care: AI has the potential to aid the diagnosis of disease.

 Using AI to analyse clinical data, research publications,

 and professional guidelines could also help to inform decisions about treatment.
- **Precision Medicine**: Genetics and genomics look for mutations and links to disease from the information in DNA. With the help of AI, body scans can spot cancer and vascular diseases early and predict the health issues people might face based on their genetics.

- शोधकर्ताओं ने ईव नामक एक एआई 'रोबोट वैज्ञानिक' विकसित किया है जिसे दवा की खोज की प्रक्रिया को तेज और अधिक किफायती बनाने के लिए डिज़ाइन किया गया है।
- नैदानिक देखभाल: एआई में रोग के निदान में सहायता करने की क्षमता है। नैदानिक डेटा, शोध प्रकाशनों और पेशेवर दिशानिर्देशों का विश्लेषण करने के लिए एआई का उपयोग करने से भी उपचार के बारे में निर्णय लेने में मदद मिल सकती है।
- प्रेसिजन मेडिसिन: जेनेटिक्स और जीनोमिक्स डीएनए में जानकारी से म्यूटेशन और बीमारी के लिंक की तलाश करते हैं। एआई की मदद से, बॉडी स्कैन कैंसर और संवहनी रोगों को जल्दी पहचान सकते हैं और स्वास्थ्य संबंधी समस्याओं का अनुमान लगा सकते हैं जो लोगों को उनके आनुवंशिकी के आधार पर सामना करना पड़ सकता

है।

- **Diagnosis**: It is estimated that more than 80% of the health data is unstructured, making it invisible to current systems, according to a PWC report. Unlike humans, AI decisions are all evidence-based and free of cognitive biases or overconfidence, enabling rapid analysis and vastly reducing even eliminating misdiagnosis.
- Monitoring of Chronic Conditions: Conditions like diabetes, cholesterol, fertility issues and cardiac heath are managed by regular monitoring and lifestyle changes. Connected POC devices help generate a lot of data about the user's body parameters.

- निदान: पीडब्ल्यूसी की एक रिपोर्ट के अनुसार, यह अनुमान लगाया गया है कि 80% से अधिक स्वास्थ्य डेटा असंरचित है, जिससे यह वर्तमान प्रणालियों के लिए अदृश्य हो जाता है। मनुष्यों के विपरीत, एआई निर्णय सभी साक्ष्य-आधारित और संज्ञानात्मक पूर्वाग्रहों या अति आत्मविश्वास से मुक्त होते हैं, जो तेजी से विश्लेषण को सक्षम करते हैं और गलत निदान को भी कम करते हैं।
- पुरानी स्थितियों की निगरानी: मधुमेह, कोलेस्ट्रॉल, प्रजनन संबंधी मुद्दों और हृदय संबंधी स्वास्थ्य जैसी स्थितियों को नियमित निगरानी और जीवनशैली में बदलाव के द्वारा प्रबंधित किया जाता है। कनेक्टेड POC डिवाइस उपयोगकर्ता के शरीर के मापदंडों के बारे में बहुत अधिक डेटा उत्पन्न करने में मदद करते हैं।

Indian Healthcare System

• The Indian healthcare sector is expected to record a three-fold rise, growing at a CAGR of 22% between 2016–22 to reach US\$ 372 billion in 2022 from US\$ 110 billion in 2016.

• By FY22, Indian healthcare infrastructure is expected to reach US\$ 349.1 billion.

• In the Economic Survey of 2022, India's public expenditure on healthcare stood at 2.1% of GDP in 2021-22 against 1.8% in 2020-21 and 1.3% in 2019-20.

Indian Healthcare System

• भारतीय स्वास्थ्य सेवा क्षेत्र में 2016-22 के बीच 22% की सीएजीआर से बढ़कर 2022 में 372 बिलियन अमेरिकी डॉलर तक पहुंचने की उम्मीद है, जो 2016 में 110 बिलियन अमेरिकी डॉलर था।

• FY22 तक, भारतीय हेल्थकेयर इन्फ्रास्ट्रक्चर के 349.1 बिलियन अमेरिकी डॉलर तक पहुंचने की उम्मीद है।

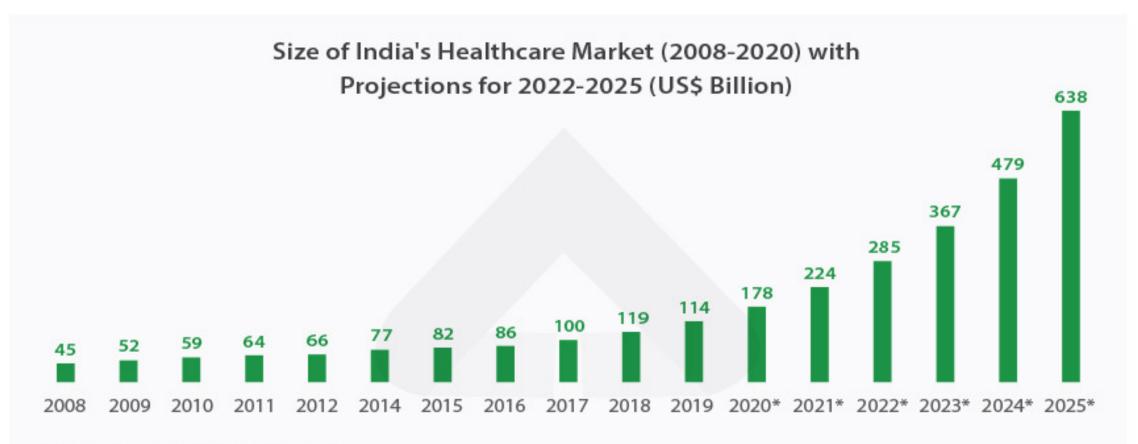
• 2022 के आर्थिक सर्वेक्षण में, स्वास्थ्य सेवा पर भारत का सार्वजनिक व्यय 2021-22 में सकल घरेलू उत्पाद का 2.1% था, जो 2020-21 में 1.8% और 2019-20 में 1.3% था।

GOVERNMENT INITIATIVES

- In the Union Budget 2022-23: Rs. 86,200.65 crore (US\$ 11.28 billion) was allocated to the Ministry of Health and Family Welfare (MoHFW).
- Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)
- Human Resources for Health and Medical Education was allotted Rs. 7,500 crore (US\$ 982.91 million).
- National Health Mission was allotted Rs. 37,000 crore
- Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB-PMJAY) was allotted Rs. 6,412 crore (US\$ 840.32 million).
- The Government of India approved continuation of 'National Health Mission' with a budget of Rs. 37,000 crore

GOVERNMENT INITIATIVES

- केंद्रीय बजट 2022-23 में: रुपये स्वास्थ्य और परिवार कल्याण मंत्रालय (MoHFW) को 86,200.65 करोड़ (US\$ 11.28 बिलियन) आवंटित किया गया था।
- प्रधानमंत्री स्वास्थ्य सुरक्षा योजना (पीएमएसएसवाई)
- स्वास्थ्य और चिकित्सा शिक्षा के लिए मानव संसाधन रुपये आवंटित किए गए थे। 7,500 करोड़ (यूएस \$ 982.91 मिलियन)।
- राष्ट्रीय स्वास्थ्य मिशन को रुपये आवंटित किए गए थे। 37,000 करोड़
- आयुष्मान भारत प्रधानमंत्री जन आरोग्य योजना (AB-PMJAY) को रुपये आवंटित किए गए थे। 6,412 करोड़ (यूएस \$ 840.32 मिलियन)।
- भारत सरकार ने रुपये के बजट के साथ 'राष्ट्रीय स्वास्थ्य मिशन' को जारी रखने की मंजूरी दी। 37,000 करोड़



All figures with *represent forecasted data.



 Recently, the UN Sustainable Development Solutions Network released the World Happiness Report 2023 which ranks countries on happiness. What is World Happiness Report?

Since 2012, the World Happiness Report has been released annually around March 20th as part of the International Day of Happiness celebration.

The **report ranks global happiness basis survey data from people** in over 150 countries.

This year, the report ranked 136 countries.

The ranking uses six key factors to measure happiness — social support, income, health, freedom, generosity, and absence of corruption.

Besides ranking the countries, the report also looks at the state of the world in 2023.

Top Performers:

- For the sixth year in a row, Finland has been crowned as the happiest nation, Denmark is at number two, followed by Iceland at number three.
- Unlike previous years, where the same countries tend to appear in the top 20, there's a new entrant this year — Lithuania (at the 20th spot).

Worst Performers:

• Afghanistan was ranked as the unhappiest nation, followed by Lebanon, Sierra Leone, Zimbabwe, respectively.

India's Performance:

- India ranks at 125th position out of 136 countries, making it one of the least happy countries in the world.
 - In 2022, India ranked 136th position out of 146 countries.
- It even lags behind its neighbouring nations like Nepal, China, Bangladesh and Sri Lanka.

1	Finland
2	Denmark
3	Iceland
4	Israel
5	Netherlands
6	Sweden
7	Norway
8	Switzerland
9	Luxembourg
10	New Zealand
126	India

What is Sustainable Development Solutions Network (SDSN)?

In 2012, the UN SDSN was launched under the auspices of the UN Secretary-General.

SDSN promotes integrated approaches to implement the <u>Sustainable</u> <u>Development Goals (SDGs)</u> and the Paris Agreement on Climate Change, through education, research, policy analysis, and global cooperation.

The Hindu Vocabulary

Pursuance (Adjective): the carrying out of a plan or action

Synonyms: implementation, carrying out, fulfilment



Antonyms: non-performance,

nonfulfillment

Trivial (तुच्छ) Adjective

Meaning: of little value or importance.



Synonyms: insignificant, unimportant, petty, inconsequential

Antonyms: important, significant, serious, consequential, essential

Mercenary (Adjective): लालच : having or marked by an eager and often selfish desire especially for material possessions

Synonyms: greedy, avaricious, acquisitive

Antonyms: altruistic, charitable



Intrinsic (अंतर्भूत) Adjective

Meaning: belonging naturally;

essential



Synonyms: inherent, innate, essential

Antonyms: acquired, external

Enumerate: सूची बनाना: the action of mentioning a number of things one by one;



Synonyms: numbering, computation

Antonyms: randomize

1. World Happiness Report 2023, recently seen in news is released by?

- a) United Nations Sustainable Development Solutions Network
- b) United Nations Development Programme
- c) World Bank
- d) United Nations Educational, Scientific and Cultural Organization

1. हाल ही में खबरों में रही वर्ल्ड हैप्पीनेस रिपोर्ट 2023 किसके द्वारा जारी की जाती है?

- a) संयुक्त राष्ट्र सतत विकास समाधान नेटवर्क
- b) संयुक्त राष्ट्र विकास कार्यक्रम
- c) विश्व बैंक
- d) संयुक्त राष्ट्र शैक्षिक, वैज्ञानिक और सांस्कृतिक संगठन

Answer - A

- It is an annual publication of the United Nations Sustainable Development Solutions Network (SDSN).
- It is based on global survey data from people in more than 150 countries.
- It is based on people's own assessment of their happiness, as well as economic and social data.
- The report considers six key factors: social support, income, health, freedom, generosity, and absence of corruption.
- It assigns a happiness score based on an average of data over a three-year period.

2. Consider following statements regarding Tuberculosis (TB):

- 1. It is caused by a virus.
- 2. In humans, TB affects only lungs.
- 3. TB is spread from person to person through the air.

Which of the above statements is/are INCORRECT?

- a) 1 only
- b) 2 & 3 only
- c) 1 and 2
- d) 3 only

2. क्षय रोग (टीबी) के संबंध में निम्नलिखित कथनों पर विचार करें:

यह एक वायरस के कारण होता है।

मनुष्यों में टीबी केवल फेफड़ों को प्रभावित करती है।

टीबी हवा के माध्यम से एक व्यक्ति से दूसरे व्यक्ति में फैलता है।

उपरोक्त में से कौन सा/से कथन गलत है/हैं?

- a) केवल 1
- b) केवल 2 और 3
- c) 1 और 2
- d) केवल 3

Answer – C

- TB is caused by a bacterium called Mycobacterium tuberculosis. Some of Mycobacteria cause diseases like TB and Leprosy in humans and others infect a wide range of animals.
- In humans, TB most commonly affects the lungs (pulmonary TB), but it can also affect other organs (extra-pulmonary TB). TB is a treatable and curable disease.
- TB is spread from person to person through the air. When people with lung TB cough, sneeze or spit, they propel the TB germs into the air.
- Common symptoms of active lung TB are cough with sputum and blood at times, chest pains, weakness, weight loss, fever and night sweats.

3. Which of the following statements is/are correct with reference to National Security Act?

3. राष्ट्रीय सुरक्षा अधिनियम के संदर्भ में निम्नलिखित में से कौन सा/से कथन सही है/हैं?

- 1. A person can be detained without charge for a maximum of 12 months.
- 2. The arrested person does not have the right to apply for bail in criminal court.

एक व्यक्ति को अधिकतम 12 महीने तक बिना आरोप के हिरासत में रखा जा सकता है।

गिरफ्तार व्यक्ति को आपराधिक अदालत में जमानत के लिए आवेदन करने का अधिकार नहीं है।

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2

- <u>a)</u> केवल 1
- b) केवल 2
- c) 1 और 2 दोनों
- d) न तो 1 और न ही 2



4. IMF Executive Board has approved a USD 3 billion bail-out programme for which country?

4. आईएमएफ के कार्यकारी बोर्ड ने किस देश के लिए 3 बिलियन अमेरिकी डॉलर के बेल-आउट कार्यक्रम को मंजूरी दी है?

- a) Sri Lanka
- b) Afghanistan
- c) China
- d) Pakistan

- a) श्रीलंका
- b) अफ़ग़ानिस्तान
- c) चीन
- d) पाकिस्तान

Answer - A

- The International Monetary Fund's (IMF) USD 3 billion bailout programme for Sri Lanka was approved by the financial agency's Executive Board.
- It is expected to help the island nation overcome its economic crisis.

Thank you, see you again