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ENVIRONMENT AND HEALTH

**Science
Reporter**



MK Yadav Sir

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Sidbi offers scheme to help small cos buy EVs

TIMES NEWS NETWORK

Mumbai: Small Industries Development Bank of India (Sidbi) has announced a new scheme under which it will provide direct finance at competitive rates for the purchase of electric vehicles (EVs) to micro, small and medium enterprises (MSMEs). This would cover vehicle aggregators, fleet operators, and leasing companies. The financial institution will also fund non-banking finance companies (NBFCs) that provide loans for EV purchases and push electrification in the three-wheeler segment.

The scheme would cover aggregators, fleet operators and leasing cos

The direct finance will also be available to those developing charging infrastructure, including battery-swapping. The indirect scheme targeted at NBFCs will reach out to the last mile by inducing access to funds as well as reducing landed costs.

SCHEME FOR E-VEHICLES (Syllabus: GS Paper 3 - Infrastructure)

Context: Small Industries Development Bank of India (SIDBI) has announced a new scheme under which it will provide direct finance at competitive rates for the purchase of electric vehicles (EVs) to micro, small and medium enterprises (MSMEs).

- This would cover **vehicle aggregators, fleet operators, and leasing companies.**

Key Points

- The financial institution will also **fund non-banking finance companies (NBFCs)** that provide loans for EV purchases and push electrification in the three-wheeler segment.
- The direct finance will also be available to those developing **charging infrastructure, including battery-swapping.**
- The **indirect scheme targeted** at NBFCs will reach out to the last mile by inducing access to funds as well as reducing landed costs.

Various initiatives to promote e-vehicles

- **FAME I & II:** Faster Adoption and Manufacturing of Hybrid and Electric Vehicles is a government scheme, which provides incentives for the purchase of EVs and the installation of charging infrastructure.
- **NEMMP:** National Electric Mobility Mission Plan was launched in 2020, which aims to have at least 30% of vehicles on Indian roads be electric by 2030.
- **Tax benefits:** The Government has announced plans to provide an additional income tax deduction of INR 1.5 Lakh on the interest paid on loans taken to purchase electric vehicles.
- **PLI:** The government has announced a Production Linked Incentive (PLI) scheme to boost domestic manufacturing and attract global companies to invest in the Indian market.
- **NTTM:** The Government also plans to set up a National Technical Textiles Mission (NTTM) to promote the use of technical textiles in various sectors, including the EV industry.
- **Phased Manufacturing Programme (PMP):** Indigenous manufacturing of electric vehicles, their assemblies/sub-assemblies, and parts/sub-parts/inputs of the sub-assemblies to be promoted over time through a graded duty structure.
- **National Mission on Transformative Mobility and Storage:** Government aims to drive strategies for transformative mobility and Phased Manufacturing Programmes for electric vehicles, electric vehicle Components and Batteries.

G20 MACS meeting in Varanasi to feature the MAHARISHI Initiative i.e., Millets And Other Ancient Grains

Context: An important **G20 Meeting of Agricultural Chief Scientists** will be held in Varanasi from 17 to 19 April with the theme of Sustainable Agriculture and Food Systems for Healthy People and Planet.

Key Points

- In consonance with India's G20 presidency theme of **"One Earth, One Family, One Future"**, the MACS will discuss food and nutrition security, resilience to climate change, One Health approaches, digital agriculture, and public - private partnerships for research, education and extension.
- The meeting will also feature the **MAHARISHI Initiative i.e., Millets And Other Ancient Grains International ReSearchH Initiative**.
- This International Initiative will **focus on research and awareness** about agro-biodiversity, food security, and nutrition in line with the International Year of Millets 2023.
- In these areas, options will be **explored of G20 countries** coming together to help share science-based technological and innovative solutions.
- The event will provide **new opportunities of collaboration in research, education and extension** in the field of agriculture and strengthen the G20 forum for international economic cooperation.
- There are **four priority areas** on which focused discussion will take place.
 - **Food Security and Nutrition** - the role of frontiers in science and technology.
 - **Building resilience and sustainable agriculture** through approaches of climate resilient agriculture and One Health.
 - **Digitalization** for Agricultural Transformation.
 - **Public-Private Partnerships** for Research and Development.

CBI summons Kejriwal in excise case

PTI
feedback@livemint.com

The Central Bureau of Investigation (CBI) Friday summoned Delhi chief minister Arvind Kejriwal on 16 April in connection with the excise policy scam case, in which his former deputy Manish Sisodia was arrested.

According to the notice issued by the CBI, Kejriwal has been called to appear at the agency headquarters at 11 AM on Sunday to answer queries of investigating team as a witness in the case, officials said.

The Aam Aadmi Party (AAP) called it a conspiracy and confirmed Kejriwal will appear before the agency on Sunday.

There are allegations that money raised by tweaking the policy in favour of certain liquor dealers and South lobby was suspected to be pumped in for election purposes by the AAP, which is facing a probe as part of the money trail, agency sources said.

They said the process of policy formulation and influence of South lobby, besides changes in the draft stages, was in the know of the chief minister, which makes it necessary to put questions to him.

Kejriwal may also be asked

Kejriwal has been called to CBI headquarters on Sunday to answer queries as a witness in the excise scam case

about an "untraceable" file containing details of the expert committee and public comments when the policy was at a nascent stage of formulation and referral of the issue to Group of Ministers (GoM) headed by Sisodia; besides his possible conversation with suspects in the case, they said.

Sources have stated that final role of Kejriwal, whether as a witness or an accused, will be decided while filing a charge sheet in the case after considering multiple factors. As of now, chief minister

is expected to answer questions as a witness, they said.

The CBI is making elaborate security arrangements around its headquarters and hence kept the questioning for Sunday, when nearby offices are closed. The agency had adopted same strategy when Sisodia was called to agency headquarters, where he was grilled for eight hours before being taken into custody.

The allegations revolve around the Delhi government's excise policy for 2021-22, when licences were granted to liquor traders who had allegedly paid bribes for them, a charge strongly refuted by the AAP. The policy was later scrapped.

Context: Chief Minister Arvind Kejriwal has been **summoned by the Central Bureau of Investigation (CBI)** for questioning in connection with the Delhi excise policy case.

Summons To A Witness And A Person Accused Of An Offence

- **About:** An investigation by the police starts as soon as the First Information Report or F.I.R u/s **154 of Criminal Procedure Code (CrPC)** is registered in respect of an offence (s). The police collect evidence and during such investigation **examine any person acquainted** with the facts of the case so as to get information about the said offence.
- **Legal Aspects:**
 - **Under section 160 of the Code Of Criminal Procedure, 1973** police officer has the power to require the attendance of any person for investigation.
 - **Under section 160 CrPC** police can also summon a person accused of an offence.
 - In case any person does not comply with the summon issued by a police officer, he is liable to be prosecuted u/s **174 IPC** which provides punishment with simple imprisonment for a term which may extend to one month, or with a fine which may extend to five hundred rupees, or with both.
 - **Under section 41A of CrPC**, a police officer shall in all cases where the arrest of a person is not required for offences having punishment up to seven years only, issue a notice directing the person to appear before him or at such other place as may be specified in the notice.
 - **Under section 161 CrPC** the police officer may examine orally any person supposed to be acquainted with the facts and circumstances and may reduce into writing any statement made to him in the course of an examination. of the case
 - Such person shall be bound to answer truly all questions relating to such case except those which would expose him to a criminal charge or to a penalty or forfeiture.
 - The statement recorded under this section need not be signed by such person.

- **Section 162 of the Code** states that the statement given to police shall not be signed by the person giving such statement.
- **Section 25 of The Indian Evidence Act, 1872** categorically states that no confession made to a police officer shall be proved as against a person accused of any offence.
 - **Section 27 of The Indian Evidence Act, 1872** states how much information received from the accused may be proved.
- **Under section 91 of CrPC**, any officer-in-charge of a police station may issue a written order to the person in whose possession or power document or thing, necessary for any investigation, requiring him to attend and produce it, or to produce it, at the time and place stated in the summons or order.
 - However, the person is **not bound to produce such document or thing** which may be against such person.

Centre to keep a watch on govt. lawyers handling criminal cases

Vijaita Singh
NEW DELHI

In an effort to ensure timely disposal of criminal cases, the Ministry of Home Affairs' e-prosecution portal has added a new feature that will fix accountability on government lawyers. The system will send alerts to senior officers whenever a public prosecutor seeks a stay in a criminal case more than twice, a senior government official said.

The e-prosecution module is part of the Interoperable Criminal Justice System (ICJS) that links and enables seamless transfer of data and information among different pillars of the criminal justice system – such as courts, police, jails and forensic science

Officers to get alerts whenever a public prosecutor seeks a stay in a criminal case more than twice

labs – from one platform. The module has been implemented in 751 prosecution districts, and software configuration for the remaining 153 districts is on.

Wide network

Earlier, the main pillars of the ICJS were developed independently in the form of the Crime and Criminal Tracking Network and System. This system connects over 16,000 police stations and has a database of 28.98 crore police records that can only be accessed by law enforcement agencies

and the judiciary.

The MHA has been emphasising on investigations based on forensics to improve the conviction rate.

Meanwhile, the National Informatics Centre is in the process of integrating the module directly with e-courts. "If a public prosecutor demands adjournment, the system generates alerts. The issue will be flagged to the stakeholders immediately. The senior officers will be alerted and measures can be taken so that the trial is not delayed," the official said.

The Ministry also tracks investigations into sexual assault cases in the country every two months through its analytics tool – the Investigation Tracking System for Sexual Offences.

ICJS PROJECT

(Syllabus: GS Paper 2 - e-Governance)

Context: To ensure timely disposal of criminal cases, the Ministry of Home Affairs' (MHA) e-prosecution portal has added a new feature that will also fix accountability of government lawyers.

- The e-prosecution module is part of the **Interoperable Criminal Justice System (ICJS)** that links and enables the seamless transfer of data and information among different pillars of the criminal justice system - such as courts, police, jails and forensic science laboratories - from one platform.

Inter-Operable Criminal Justice System Project

- About:** ICJS is a **national platform** for enabling integration of the main IT system used for delivery of Criminal Justice in the country.
- Objectives:** It seeks to integrate the **five pillars of the system** viz Police (through Crime and Criminal Tracking and Network Systems), e-Forensics for Forensic Labs, e-Courts for Courts, e-Prosecution for Public Prosecutors and e-Prisons for Prisons.
 - The ICJS system would be made available through a **dedicated and secure cloud-based infrastructure** with high speed connectivity.
- Nodal Agency:** **National Crime Records Bureau (NCRB)** will be responsible for the implementation of the project in association with National Informatics Centre (NIC).
 - The project will be implemented in **collaboration with the States and Union Territories.**
- Two Phases:**
 - Phase-I: Individual IT systems** have been implemented and stabilised even as search of records have been enabled on these systems.
 - Phase-II:** The system is being built on the **principle of 'one data one entry'** whereby data is entered only once in one pillar and the same is then available in all other pillars without the need to re-enter the data in each pillar.

Festival of Innovation and Entrepreneurship (FINE) 2023 discussed ways of raising profile of country's innovation and entrepreneurship eco-system

Context: Roundtables organised at the **Festival of Innovation and Entrepreneurship (FINE) 2023** discussed ways of raising the profile of **country's innovation and entrepreneurship ecosystem**, which is by far the world's most inclusive eco-system, the third largest in the world and an inspiration for many progressive economies.

- The roundtables organised on the theme scaling up and **commercialization of innovations, innovations for wealth creation and employment**, inclusive and sustainable development, healthcare innovations, as well as energy and environment, brought together policymakers from the Government, sector-specific institutions, farmers, innovators, entrepreneurs, start-up founders, academicians, representatives from industry and incubators.

Key Points

- The Festival of Innovation and Entrepreneurship (FINE) 2023, **organized by the National Innovation Foundation**, discussed ways to raise the profile of India's innovation and entrepreneurship ecosystem, which is inclusive, the third largest in the world, and an inspiration to many countries.
 - National Innovation Foundation is an autonomous body of the **Department of Science and Technology**.
 - It is **India's national initiative** to strengthen grassroots technological innovations and outstanding traditional knowledge.
- It can be used to highlight initiatives to **improve India's innovation ecosystem**.

India, Japan, France launch platform for Sri Lanka creditors

China left out of debt talks



Finance Minister Nirmala Sitharaman meets her Japanese counterpart Shunichi Suzuki on the sidelines of IMF-WB Annual Meetings 2023, in Washington DC on Thursday PHOTO: PTI

LALIT K JHA
Washington, 14 April

India, Japan and France have announced a common platform for talks among creditors to address the debt restructuring programme of Sri Lanka which is grappling with its worst economic crisis.

The representatives of the three creditor countries, including Finance Minister Nirmala Sitharaman, held a press briefing on the margins of the annual spring meetings of the World Bank and the International Monetary Fund (IMF) in Washington on Thursday.

"The purpose of the event was to demonstrate the multilateral cooperation regarding the debt restructuring process among the creditors, together with Sri Lanka," said an official statement.

UAE assures Pak of \$1-bn loan to revive IMF relief deal



Pakistan's
Finance
Minister
Ishaq
Dhar
on
Friday

announced that the UAE has approved \$1 billion in financial support, taking the cash-strapped nation a step closer to unlocking the crucial IMF bailout.

Pakistan is tackling a major economic crisis as it awaits a much-needed \$1.1

Context: Japan, India and France announced a common platform for talks among bilateral creditors to coordinate **restructuring of Sri Lanka's debt**, a move they hope would serve as a model for solving the debt woes of middle-income economies.

- The representatives of the three creditor countries, including India, held a press briefing on the margins of the annual spring meetings of the World Bank and the **International Monetary Fund (IMF)** in Washington.
- The purpose of the event was to demonstrate the **multilateral cooperation** regarding the debt restructuring process among the creditors, together with Sri Lanka.

India's Assurances to IMF backing Sri Lanka

- **About:** India sends **financing assurances to IMF** to back Sri Lanka's debt restructuring program.
 - Sri Lanka's **three largest bilateral lenders are China, Japan, and India**. India's backing is a critical step for Sri Lanka to receive a \$2.9 billion package from IMF.
- **Sri Lanka's Debt Crisis:**
 - Sri Lanka is facing **worst economic crisis since 1948**.
 - Challenges include shortage of dollars, runaway inflation, and steep recession.
 - Sri Lanka **owes India around \$1 billion** that will come under the debt restructuring plan.
 - Sri Lanka's chances of **swift assistance** now depend on similar assurances from Japan.
- **Need for Assurances:**
 - India's backing is critical for Sri Lanka to unlock a **\$2.9 billion IMF loan**.
 - Sri Lanka needs to secure prior **financing assurances**, put debt on sustainable path, and increase public revenue.
 - IMF stresses importance of joint talks involving **China, Japan, and India**.

CHAGAS DISEASE

(Syllabus: GS Paper 3 - Sci & tech)

World Chagas Disease Day: All you need to know about the parasitic infection that kills 12,000 people every year

Chagas is the most prevalent communicable tropical disease in Latin America

By DTE Staff

Published: Friday 14 April 2023



- **Prevalent in Latin America:** Chagas is currently **endemic in 21 countries in the Americas**.
- **No Vaccines:** There are currently **no vaccines available** for Chagas disease.
 - However, the disease can be treated with **antiparasitic medicines Benznidazole and Nifurtimox**.
 - These have a **100 per cent efficacy rate** if the medicine is administered at the onset of the acute stage.
- **Preventive measures:** Governments have employed **spraying insecticides** as a measure to eliminate triatomine bugs in parts of Mexico, Central and South America.
 - **Universal screening of blood donors and blood products** is done by all Latin American countries, and other countries reporting new cases.

Context: The World Health Organization (WHO) is observing **World Chagas Disease Day** April 14, 2023 to raise awareness about this little-known disease that affects millions every year, especially the poor population and people in Latin America.

- In 2019, the 72nd World Health Assembly dedicated this day to the disease.
- This year's theme is **"time to integrate Chagas disease into primary health care"**.

Chagas disease?

- **About:** Chagas disease, also called **American trypanosomiasis**, is a communicable parasitic disease that has infected 6-7 million people and claims around 12,000 lives every year across the globe.
 - The disease is named after **physician Carlos Chagas** who first detected it in a Brazilian child in 1909.
 - It is often referred to as the **"silent and silenced disease"**.
- **Causes:** It is caused by the **parasite protozoan Trypanosoma cruzi**.
 - The parasites are mainly transmitted by a family of bugs called **'triatomines'**, also known as the **'kissing bug'**.
 - These **blood-sucking bugs** transmit the disease from infected to healthy individuals through bites and by defecating on them.
- **Symptoms:** The systemic, chronic disease manifests as **fever, headaches, rashes and inflammatory nodules, nausea or diarrhoea** and muscle or abdominal pain.
 - A majority of the patients (70-80 per cent) show an **asymptomatic clinical course** throughout their lives, making early detection challenging.
 - Around 20-30 per cent infections evolve into the **chronic stage**, during which patients show symptoms indicating damage to tissues of heart, digestive system or nervous system.
- **Transmission:** An individual can contract this disease through **congenital transmission (pregnant woman to their baby)**, blood transfusions, organ transplantation, consumption of uncooked food contaminated with faecal matter of infected bugs or even accidental laboratory exposure.
 - The disease **cannot propagate by casual contact** with infected humans or animals.

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JUICE MISSION

(Syllabus: GS Paper 3 - Sci & tech)

JUICE mission to hunt for life in Jupiter launched successfully

The explorer will study the icy surfaces of the planet and its satellites to look for signs of liquid water



Other Jupiter Mission

- **Pioneer 10 (NASA):** A NASA space probe launched in 1972 that completed the first mission to the planet Jupiter.
- **Voyager mission (NASA):** It discovered Jupiter's faint ring system
- **Galileo probe (NASA):** It orbited the planet between 1995 and 2003.
- **Juno (NASA):** It has been circling the planet since 2016.

Context: The European Space Agency (ESA) successfully launched the **Jupiter Icy Moons Explorer (JUICE)** from Kourou, French Guiana.

- Juice is expected to reach Jupiter in 2031. It will make multiple flybys of Jupiter's satellites **Ganymede, Callisto and Europa** before orbiting around Ganymede.

Key Points

- The spacecraft is armed with a suite of **remote-sensing, geophysical and in-situ instruments**.
- Besides characterising these moons as planetary objects and possible habitats, the mission will **explore Jupiter's complex environment** extensively and study the wider Jupiter system as an archetype for gas giants across the Universe, according to the ESA.
- Researchers believe that **Ganymede (the largest Jovian moon)** and **Callisto (the second-largest)** are ocean worlds.
- Around Ganymede and Callisto (to a large extent), the mission's primary objectives are to **characterise the ocean layers** and detect subsurface water reservoirs.
- It will also map the topography, geology and composition of the surface.
- The goal is also to **study Ganymede's intrinsic magnetic field** and how it interacts with the Jovian magnetosphere.
- ESA has different plans for **Europa**, a top contender for finding life, as it possesses environments suitable for some form of life.
- Juice will **study its chemistry**, including organic molecules, and understand its surface features and the composition of the non-water-ice material.
- Europa has all **three essential ingredients** to support life: Liquid water, an energy source and organic compounds that act as building blocks for biological processes.
- Juice's main engine contains a **bi-propellant: Mono-methyl hydrazine and mixed oxides of nitrogen**.
- Further, the spacecraft will be powered by 10 solar arrays arranged in two wings, stretching 27 meters from tip to tip. It can produce about 850 watt power at Jupiter.
- It also comes equipped with radiation shielding to protect the **spacecraft's electronics** from the Jovian environment.
- The mission has a lifespan of **about three years**. But its life could extend by 200 or more days.

AUSTRALIA

Cyclone Ilsa makes fall in northwest

Sydney: A tropical cyclone smashed into Australia's northwest coast as a category 5 storm, setting new wind speed records, but has largely spared populated regions including the world's largest iron ore export hub at Port Hedland, authorities said on Friday. Cyclone Ilsa made landfall early Friday morning with the highest intensity rating on a 1-to-5 scale and then moved inland as emergency crews urged several remote communities along the storm's path to seek shelter and remain indoors.

REUTERS

Context: A tropical low intensified into a **tropical cyclone Lisa** in Australia starting bringing heavy rain and strong winds of up to 90 kilometers per hour (kpmh).

Tropical Cyclone Lisa

- **About:** The name Lisa has been **used for nine tropical cyclones worldwide**: five in the Atlantic Ocean, one in the Northwestern Pacific Ocean, one in the South-West Indian Ocean and two in the South Pacific Ocean.
- **In the Atlantic Ocean:**
 - **Hurricane Lisa (1998)** – travelled in the central Atlantic without approaching land
 - **Hurricane Lisa (2004)** – formed off Cape Verde and briefly reached hurricane strength near Cape Race, Newfoundland
 - **Hurricane Lisa (2010)** – travelled in eastern Atlantic near Cape Verde
 - **Tropical Storm Lisa (2016)** – formed in eastern Atlantic in close proximity to Cape Verde, churned in the open ocean without threatening land
 - **Hurricane Lisa (2022)** – made landfall in Belize and then re-emerged into the Bay of Campeche as a weak tropical depression.
- **In the Northwestern Pacific Ocean:**
 - **Tropical Storm Lisa (1996)** – Made landfall in Southern China
- **In the South-West Indian Ocean:**
 - **Cyclone Lisa (1981)**
- **In the South Pacific Ocean:**
 - **Cyclone Lisa (1982)**
- **Australian region:**
 - **Cyclone Lisa (1991)**

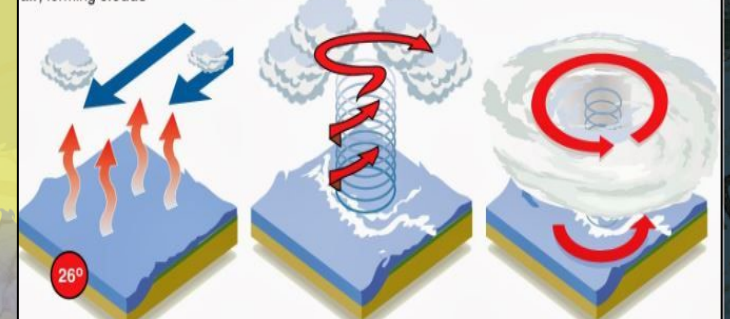
How tropical storms are formed

High humidity and ocean temperatures of over 26°C are major contributing factors

Water evaporates from the ocean surface and comes into contact with a mass of cold air, forming clouds

A column of low pressure develops at the centre. Winds form around the column

As pressure in the central column (the eye) weakens, the speed of the wind around it increases



PM pays tributes to Dr. Babasaheb Ambedkar

Context: The Prime Minister paid floral tributes to **Dr. Babasaheb Ambedkar on his Jayanti.**

- Ambedkar Jayanti is an **annual festival celebrated in India** to commemorate the birth anniversary of Dr Bhimrao Ambedkar, also known as Babasaheb Ambedkar, who was an Indian jurist, economist, social reformer and politician and is best known as the chief architect of the Indian Constitution.

Dr. Babasaheb Ambedkar

- Dr Bhimrao Ramji Ambedkar was **born on April 14, 1891 in Madhya Pradesh's Mhow.**
- Babasaheb got his **early education in Bombay.**
- He got his M.A. and Ph.D. degrees from Columbia University in 1915 and 1916 respectively. He then **left for London for further studies.**
- Then after getting this highest degree, he returned to India and was appointed a **Military Secretary to the Maharaja of Baroda** with a view to groom him as the finance minister in the long run.
- After coming back from England in 1924 he started an **Association for the welfare of the depressed classes**, with Sir Chimanlal Setalvad as the President and Dr. Ambedkar as the Chairman.
- The **Bahiskrit Bharat**, newspaper was started in April 3, 1927 to address the cause of the depressed classes in view of the new reform.
- In 1928, he became a **Professor in Government Law College**, Bombay and on June 1, 1935 he became the Principal of the same college and remained in that position till his resignation in 1938.
- On August 15, 1936, he formed **Independent Labour Party** to safeguard the interest of the depressed classes, which mostly formed the labour population.
- In 1942, he was **appointed to the Executive Council of the Governor General of India as a Labour member**, in 1946, he was elected to the Constituent Assembly from Bengal.
- At the same time he published his book, **Who were Shudras?**
- In 1955, he published his book titled **Thoughts on Linguistic States.**
- The **Central bank** was formed on the concept presented by Babasaheb to the **Hilton Young Commission.**
- Ambedkar, who belonged to the Mahar caste which was considered untouchable in Hinduism, **converted to Buddhism** on October 14, 1956, in Nagpur along with 500,000 supporters, after studying the religion for years.
- It was on August 29, 1947, that he was **appointed as the chairman of the Constitution Drafting Committee** for the constitution of independent India and after Independence, he was appointed as the law minister of India.
- B.R. Ambedkar's death anniversary is observed as **Mahaparinirvan Diwas** across the country.

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