

Daily Current Affairs

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CIVIL
SERVICES

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Rajasthan

Mangla Processing Terminal (MPT) completes 16 years

➔ Why in News?

- Cairn Energy's crude oil producing field 'Mangla Processing Terminal (MPT)' located at Nagana in Barmer has completed 16 years of production.



➔ Key Points:

- This oil field was discovered in the year 2004 and crude oil production started from here on August 29, 2009.
- MPT is India's largest onshore oil producing field, producing about 66,000 to 67,000 barrels of oil per day (bopd).
- Mangala, Bhagyam and Aishwarya (MBA) are jointly the three largest producing fields in this rich region of Rajasthan.
- Crude oil production from Barmer is currently from 15 fields; Such as - Mangala, Bhagyam, Aishwarya, Saraswati, Rageshwari, Kameshwari and others.

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- Oil and gas in this field is produced by Cairn Oil and Gas (a subsidiary of Vedanta).

Facts for Prelims:

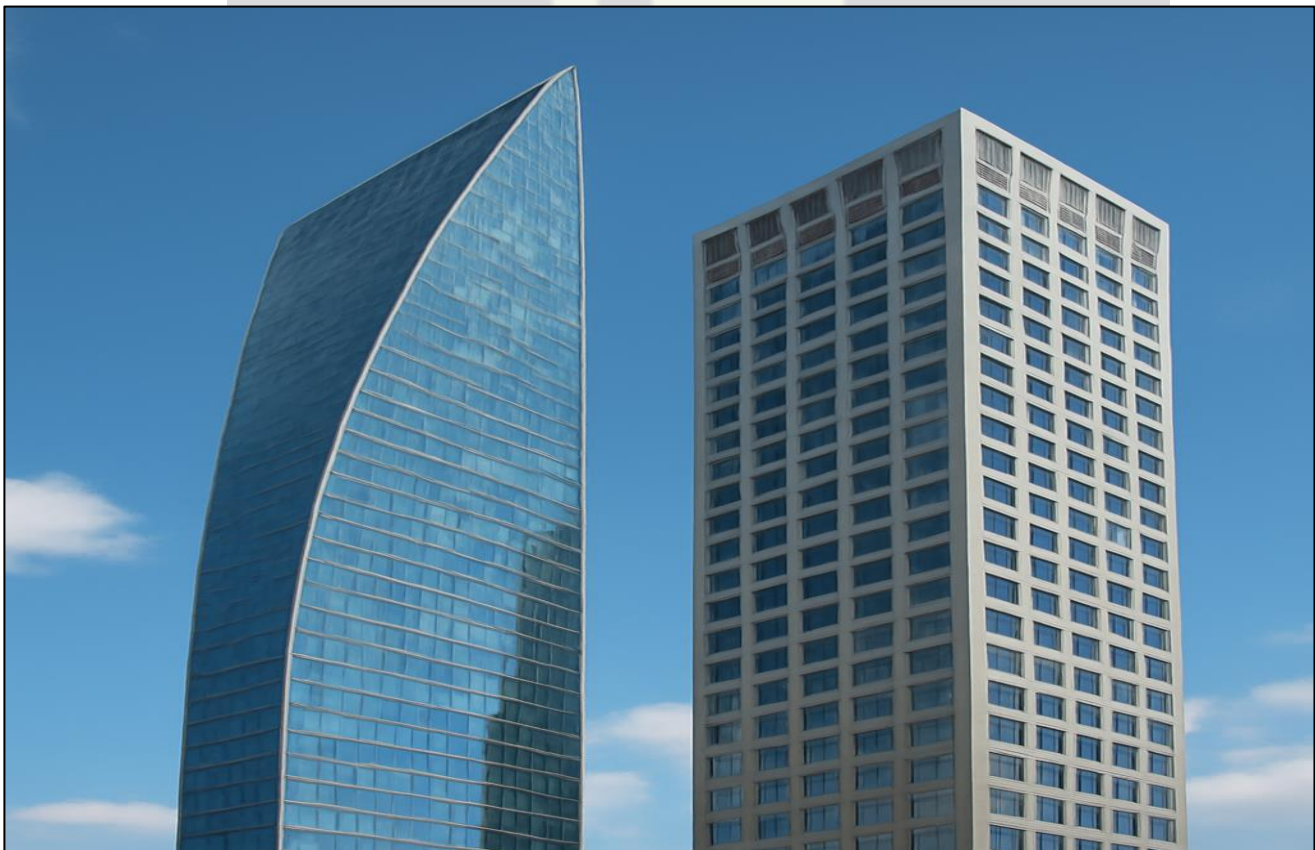
HPCL Rajasthan Refinery Limited (HRRL)

- HPCL Rajasthan Refinery Limited (HRRL) was started on September 18, 2013 as a joint venture between Hindustan Petroleum Corporation Limited (HPCL) and the Government of Rajasthan with equity participation of 74 percent and 26 percent respectively.
- **Project Approval:** By the Ministry of Petroleum and Natural Gas on October 09, 2017.
- This is the first BS-6 standard project in the country, which is a combination of refinery and petrochemical complex.
- The refinery has a capacity of 9 million metric tonnes per annum (MMTPA), including 2.4 MMTPA of petrochemical products.
- The Rajasthan Refinery Project will be able to process imported crude oil (7.5 MMTPA) as well as crude oil produced in Rajasthan (1.5 MMTPA).

Rajasthan Mandapam and Global Capability Centre

➔ Why in News?

- Recently, the Rajasthan Cabinet approved the proposal to construct Rajasthan Mandapam and Global Capability Centre/IT Tower on 95 acres of land in Jaipur through NBCC (India) Limited.



➔ Key Points:

- National Buildings Construction Corporation Limited (NBCC India) is a Navaratna undertaking of the Government of India and a Central Public Sector Enterprise (CPSE), which works in the field of project management consultancy (PMC), engineering procurement and construction (EPC) and real estate.

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- The construction of 'Rajasthan Mandapam' in the capital Jaipur on the lines of Bharat Mandapam located in New Delhi was announced by Finance Minister Diya Kumari in the annual budget for the financial year 2024-25.
- **Total estimated cost of the project:** about ₹3700 crore.
- Rajasthan Mandapam will be developed as a convention center in an area of about 25 acres at a cost of ₹2200 crores, which will have a capacity of 7000 to 7500 people.
- Unity Mall is also being constructed on 15 thousand square meters of land out of 95 acres of land through the implementing agency RIICO.



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Land Lease Allotment Policy of Airstrips for Aero Sports Activities

➔ Why in News?

- Recently, the Rajasthan government approved the 'Land Lease Allotment Policy of Airstrips for Aero Sports Activities' to promote aero sports activities in the state, ensure maximum use of currently underutilized airstrips and promote adventure tourism.



➔ Key Points:

- Under the policy, the lease fee of land will be Rs 100 per square meter per year and concession fee will be Rs 6 lakh per airstrip per year.
- As per the provisions of the policy, rates will be increased by 5 percent for the first 5 years and 10 percent annually from the 6th to the 20th year.
- **Lease period and area:** Maximum 20 years and maximum 2000 square meters of land can be allotted.

Facts for Prelims:

- Rajasthan State Budget 2025-26 announced setting up of Aero City near Kota Airport, starting of Aero Sports activities at Mount Abu (Sirohi) and establishment of Flying Training Organisations (FTO) at Pratapgarh, Jhalawar and Jhunjhunu.

Economic Times Rajasthan Business Summit 2025

➔ Why in News?

- 'Economic Times Rajasthan Business Summit 2025' was organized at the Marriott Hotel in the capital Jaipur on 28-29 August 2025.



➔ Key Points:

- **Chief Guest of the conference:** Chief Minister of Rajasthan.
- In the conference, an agreement was announced by IIT Hyderabad and IIT Dhanbad to study the deposits of associated minerals in dumps in Rajasthan in mutual coordination.
- It is worth noting that work has been started on the basis of pilot project on Zero Loss-Zero Defect Exploration using Artificial Intelligence and Machine Learning (AIML) technology in mineral exploration in the state.
- Deputy Chief Minister and Tourism, Art and Culture Minister Diya Kumari released the keynote regarding 'Rajasthan All Time Tourist Destination'.

News in Shorts

S. No.	News
1.	<p>'Operation Clean Sweep': Barmer Police</p> <ul style="list-style-type: none">♦ The action was carried out under 'Operation Clean Sweep' operated by Barmer Police against drug trafficking.♦ For the first time, Barmer Police simultaneously froze illegally acquired property worth ₹2.5 crore of three notorious drug smugglers under Section 68F (2) of the NDPS Act.
2.	<p>'Operation Chakravyuh': Pratapgarh Police</p> <ul style="list-style-type: none">♦ Pratapgarh Police is conducting a campaign to seize illegal property acquired from drug trafficking under 'Operation Chakravyuh'.
3.	<p>State's largest construction, design and decor show: Jaipur</p> <ul style="list-style-type: none">♦ The sixth edition of the four-day 'Design India Interior Expo 2025' started from August 29, 2025 at Birla Auditorium, Jaipur.♦ This is Rajasthan's largest construction, design and decor show.

4.

MoU between Rajivika and V. Shakti Trust Delhi

- ◆ Recently, a "non-financial" MoU was signed between Rajasthan Rural Livelihood Development Council (Rajivika) and V. Shakti Trust Delhi.
- ◆ The main objective of this agreement is to provide a platform to women members of self-help groups, craftsmen and small businessmen to showcase their products and skills.

5.

Anuya Prasad: Qualified for Deaflympics 2025

- ◆ Anuya Prasad, one of the players of Godspeed Shooting Range in the 23rd Rajasthan State Shooting Championship, won 1 gold, 2 bronze in 25m standard and sports pistol and a silver medal in 10m air pistol.
- ◆ Anuya Prasad qualified for the XXV Summer Deaflympics 2025, Tokyo in both 10m air pistol and 25m sports pistol.

6.

Rajasthan wins 4 more medals in 16th Asian Shooting Championship

- ◆ 5 shooters from Rajasthan won 4 gold and 1 silver medal in the 16th Asian Shooting Championship being held in Simkent, Kazakhstan.
- ◆ **Uddhav Singh Rathore:** Gold medal in Junior Trap Team event.
- ◆ **Yogesh Kumar:** Silver medal in 50m free pistol senior category.
- ◆ **Abhinav Chaudhary and Umesh Chaudhary:** Won junior team gold medal.
- ◆ Kushagra Rajawat won gold medal in 50m rifle prone junior team event.

7.

Rajasthan Gramin Bank: APY Annual Award of Excellence

- ◆ Recently, Rajasthan Gramin Bank Chairman Mukesh Bhartiya was honoured with APY Annual Award of Excellence Achievers by the Pension Fund Regulatory and Development Authority.
- ◆ The award was presented by Chairman S. Ramanna at a function held in New Delhi.

National

Ran Samvad 2025:

➔ Why in News?

- Ran Samvad was organized on 26-27 August 2025 at Mhow (MP).



➔ Key Points:

Objectives and Significance:

- **Main objective:** To discuss innovation and impact of technology in tri-military warfare.
- **Special Guests:** Defence Minister Rajnath Singh, CDS General Anil Chauhan, Army Chief General DGP Dinesh Kumar Tripathi, Navy Chief Admiral Dinesh Kumar Tripathi, and Air Force Chief Marshal Amarpreet Singh along with other military officials.

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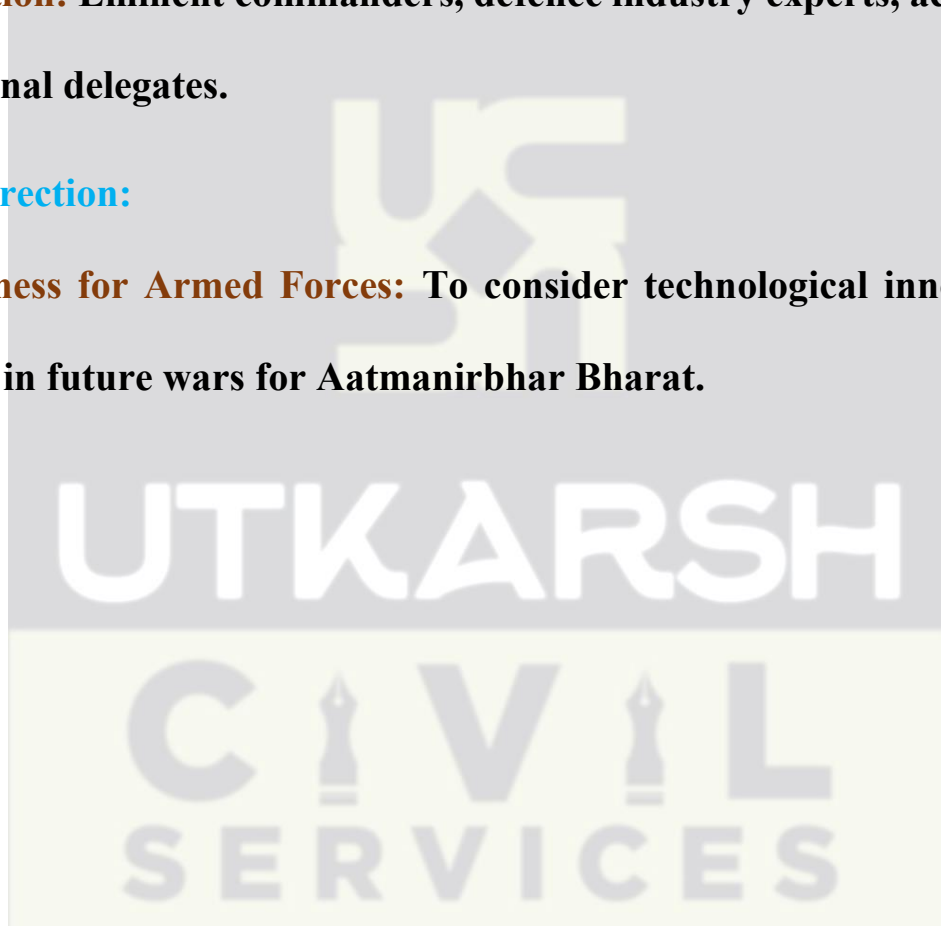


Event Highlights:

- **Topics:** Discussion on innovation in warfare, impact of technology in war-fighting, and preparing armed forces for the future.
- **Participation:** Eminent commanders, defence industry experts, academia and international delegates.

Future Direction:

- **Preparedness for Armed Forces:** To consider technological innovation and strategies in future wars for Aatmanirbhar Bharat.



Cloudburst

➔ Why in News?

- A cloudburst in Dharali area of Uttarkashi triggered flash floods and landslides, killing at least four people and washing away several houses.

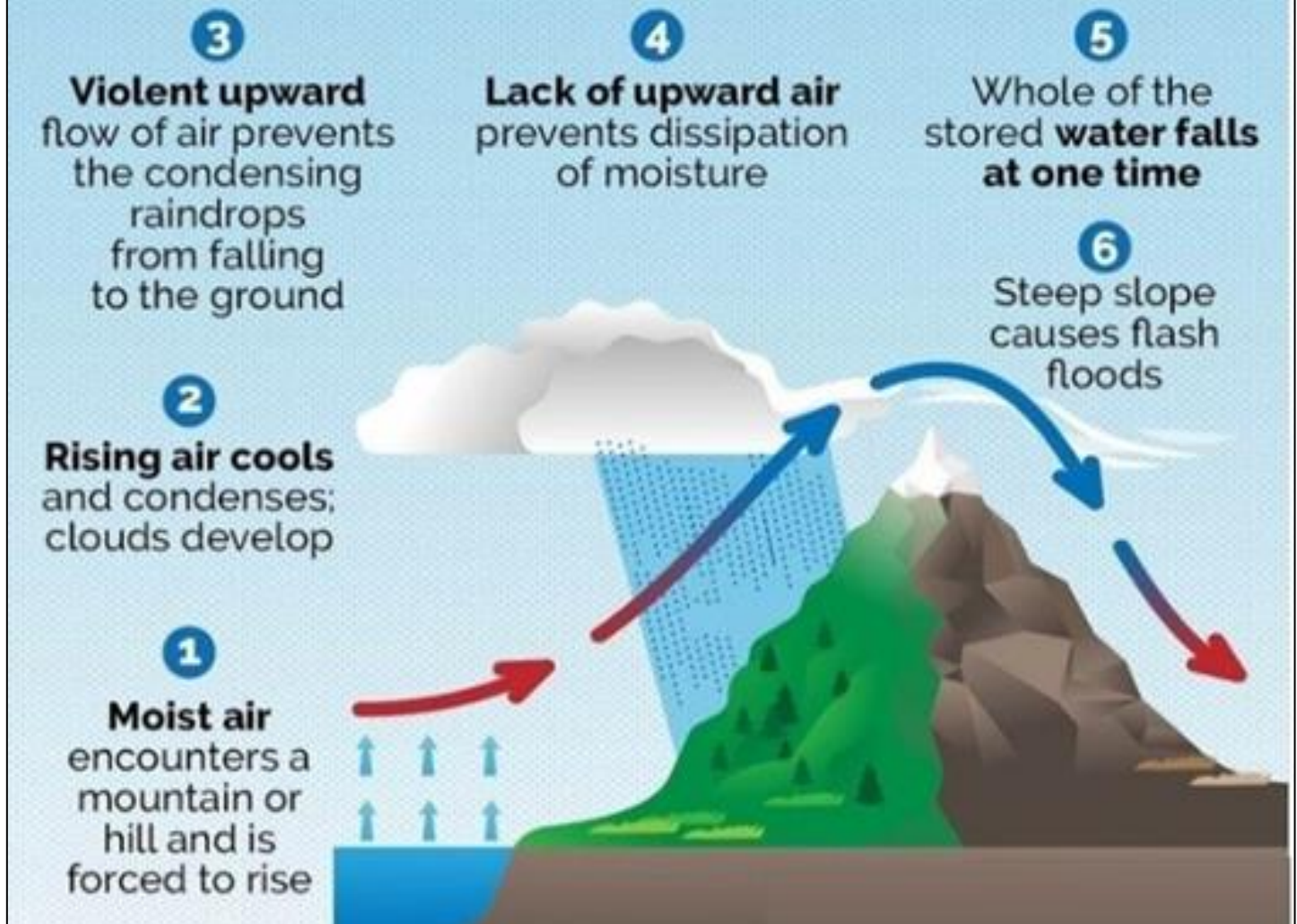


➔ Key Points:

What is cloudburst?

- **Definition:** According to the India Meteorological Department (IMD), it is an event in which rainfall of more than 100 mm/hour occurs over an area of 20-30 sq km.
- **According to new study:** The study by IIT Jammu and NIH has redefined it as 100-250 mm/hour over 1 sq km.
- **Associated clouds:** These events are often associated with cumulonimbus clouds in mountainous regions, generated by mountain lift and convection currents.

Orographic Lifting And Cloudburst

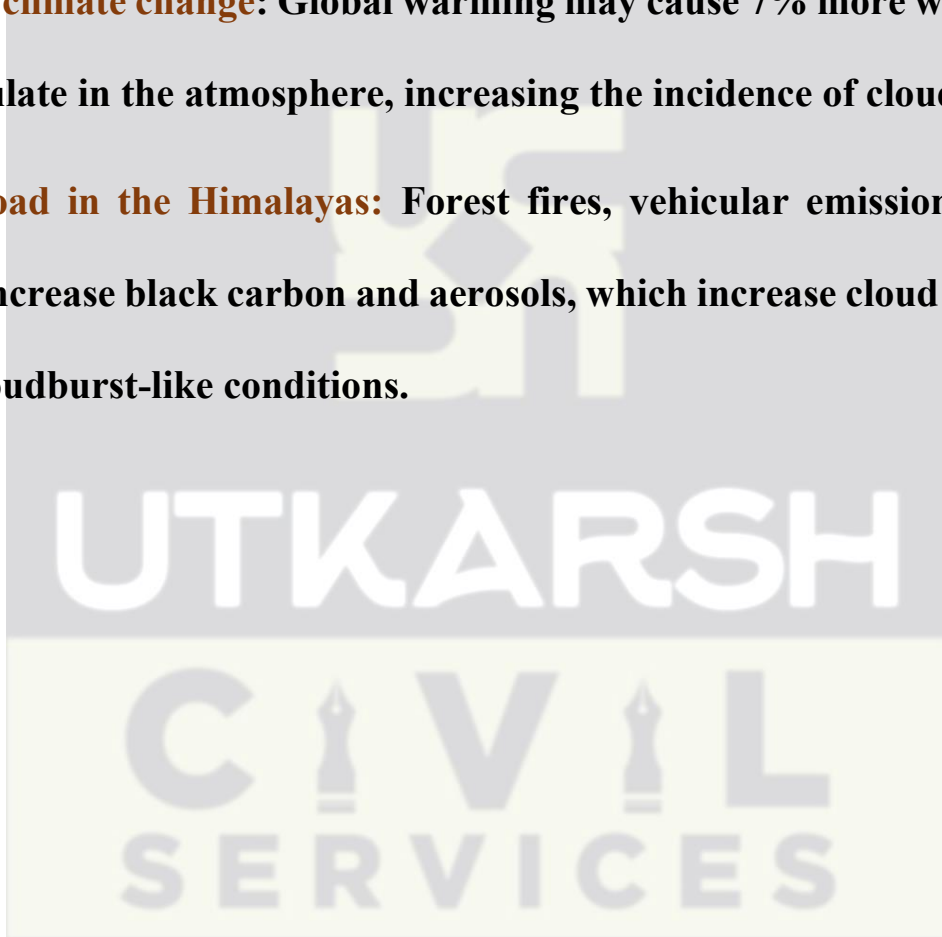


Why are hilly regions more vulnerable?

- **Topography:** Steep slopes accelerate water runoff and debris flow.
- **Mountain uplift:** Monsoon air rises faster over mountains, intensifying rainfall.
- **Rocky terrain:** Water accumulates faster on the surface due to lack of water absorption.
- **Elevation:** High sensitivity due to valleys and fragile ecosystems at altitudes of 1,000–2,000 m.

Mechanism and climate linkages:

- **Rapid condensation:** Strong updrafts lift heavy moisture into the air, which condenses before cloudbursts form, leading to excessive rainfall.
- **Impact of climate change:** Global warming may cause 7% more water vapour to accumulate in the atmosphere, increasing the incidence of cloudbursts.
- **Carbon load in the Himalayas:** Forest fires, vehicular emissions and crop burning increase black carbon and aerosols, which increase cloud density and lead to cloudburst-like conditions.



International

Bright Star Exercise 2025 - Military Exercise

➡ Why in News?

- Bright Star, being hosted by Egypt in partnership with the United States from August 28 to September 10, 2025, is a major multinational military exercise.



➡ Key Points:

- **Host:** Egypt (in partnership with the United States)
- **Venue:** Cairo West Air Base, Egypt

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History:

- **Inception:** Started as a bilateral exercise in 1980 following the Camp David Accords.
- **Participating Countries:** 43 countries (13 countries deployed contingents, 30 countries participated as observers)

Indian Participation:

- **Number of Troops:** Over 700 Indian troops (Army, Navy, Air Force)
- **Second Participation:** This is India's second participation, underlining the country's growing global defence status.

Strategic Importance:

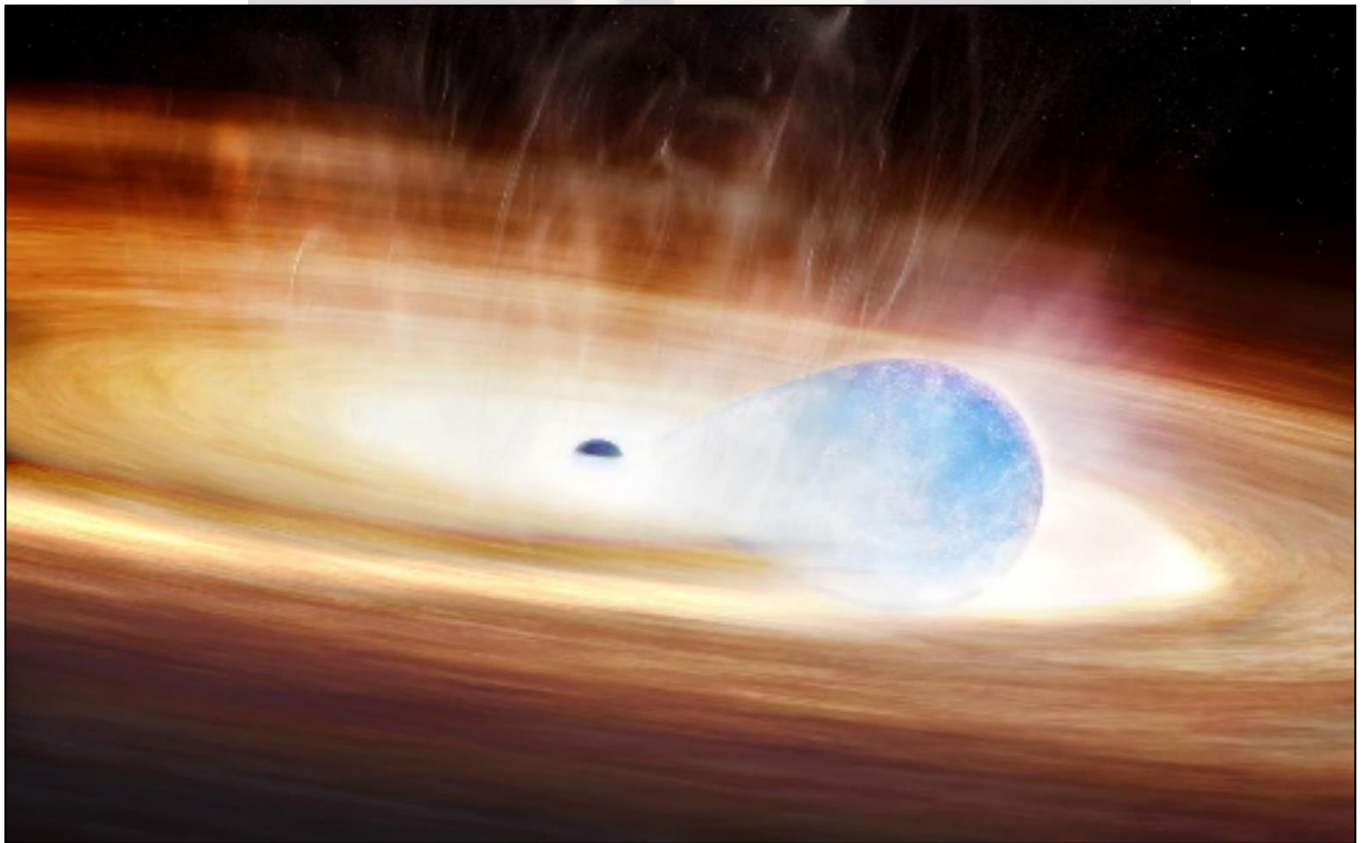
- **For India:** Strengthening tri-service synergy, supporting "SAGAR" approach.
- **For global partners:** Opportunity to enhance regional stability and collective security.

Science & Technology

New type of supernova produced by black hole-star interaction

➔ Why in News?

- New type of supernova where the explosion was induced by a black hole as opposed to a normal supernova represents a new type of phenomenon.



➔ Key Points:

- **Gravitational effect:** The black hole distorts the star and pulls its material, presenting a new area of study.

Recent phenomena:

- **Binary star system:** Astronomers observed a binary star system 700 million light years away in which one star turned into a black hole.

- **Explosion induced by black hole:** The black hole pulled the material of the companion star, causing it to explode into a supernova.
- **Pre-explosion signal:** Luminous emission was observed from the black hole stripping the star of hydrogen before the explosion.

What is a Supernova?

- **Definition:** A supernova is the final explosion of a star, which occurs when nuclear fusion stops, the centre of the star collapses under the influence of gravity and its outer layers are expelled into space.
- **Types:**
 - **Core-collapse supernovae:** found in massive stars.
 - **Thermonuclear supernovae:** Explosions in white dwarfs in binary systems.

What is a black hole?

- **Definition:** A black hole is a dense object whose gravity is so strong that nothing, not even light, can pass through it.
- **Characteristics:**
 - There is a gravitational singularity at the centre of a black hole.
 - The event horizon is the boundary beyond which nothing can pass.

Brain Eating Amoeba

➔ Why in News?

- Recently, 18 active cases of rare brain infection amoebic meningoencephalitis have been reported in Kerala.



➔ Key Points:

Amoebic Meningoencephalitis:

- **Cause of brain infection:** Naegleria fowleri (brain eating amoeba), found in warm and shallow freshwater sources such as lakes, rivers and hot springs.
- **System affected:** Central nervous system.
- **Symptoms:** High fever, painful headache, seasickness, vomiting and meningitis-like symptoms, including stiff neck and extreme sensitivity to light (photophobia).
- **Infection:** Amoebic meningoencephalitis enters the body through the nose.
- **Mortality rate due to infection:** More than 97%.

Lunar Module Launch Vehicle (LMLV)

➔ Why in News?

- Recently, Indian Space Research Organisation (ISRO) has announced the development of the heaviest rocket ever - Lunar Module Launch Vehicle (LMLV) by the year 2035.



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➡ Key Points:

- LMLV is ISRO's next generation heavy lift launch vehicle.
- **Use:** It will be the most powerful rocket built by India, specially designed for lunar and interplanetary missions.

Objective:

- To enable manned lunar missions by the year 2040.
- To carry large payloads to the Moon and aid in deep space exploration.

Payload:

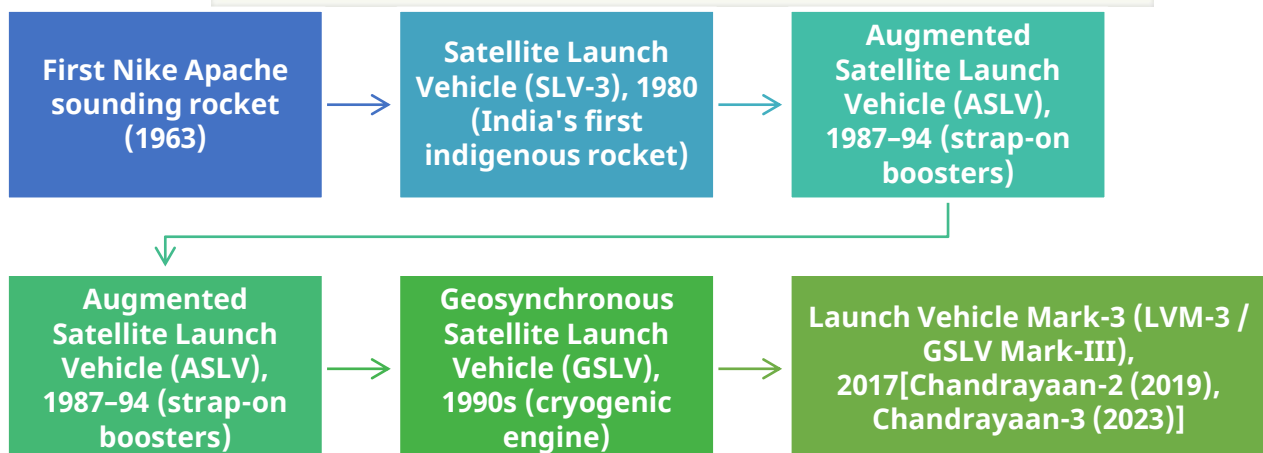
- **Payload on Moon:** Approx. 27 tonnes.
- **Payload on Low Earth Orbit (LEO):** Approx. 80 tonnes.

Propulsion:

- **3 stages;** Liquid propellant for its first two stages and cryogenic propellant for the third stage.

Other important points:

Development of ISRO's launch vehicles:



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- **Space Vision 2047:** This includes India, Indian Space Station by the year 2035 and Indians landing on the Moon with indigenous technology by the year 2040. For this, it will be necessary to acquire some technologies, such as heavy-lift-off launch vehicles, human-rated vehicles, docking technology, high-capacity lander, re-entry technology etc.
- On September 18, 2024, the Union Cabinet of the Government of India has approved the Venus Orbiter Mission (VOM) and Chandrayaan-4 mission.
- **Shukrayaan Mission (Venus Orbiter Mission):** Under this mission, India will put a spacecraft in the orbit of Venus, which will study the atmosphere, surface and geological activities there.
- **Chandrayaan-4:** Chandrayaan-4 will be operated as a 'sample return mission', bringing soil and rock samples from the Moon to Earth.
- **Chandrayaan-5:** Will be done in collaboration with Japan Space Agency (JAXA).

Environment & Ecology

Biochar programme launched in Himachal Pradesh

➡ Why in News?

- The first state-supported biochar project will be launched in Himachal Pradesh.



➡ Key Points:

- **MoU:** Tripartite MoA signed between Dr. YS Parmar University of Horticulture and Forestry, Himachal Pradesh Forest Department and Proclaim Services Pvt. Ltd.
- **Location:** The biochar plant will be set up at Neri in Hamirpur district.

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Objectives:

- **Climate change and environmental protection:** To reduce forest fires and protect the environment by biochar production.
- **Sustainable practices and awareness:** To raise environmental awareness by involving local communities.

Biochar production process:

- **Ecological materials:** Use of pine needles, lantana, bamboo and other tree-based biomass.
- **Pyrolysis technology:** To make biochar using these materials.

Goals and impacts:

- **Carbon credits:** Target to generate 28,800 carbon credits over 10 years.
- **Positive impacts:** Elimination of invasive species such as lantana, improved carbon absorption and soil health.

Sundarban Tiger Reserve: India's second largest tiger reserve

➔ Why in News?

- After Nagarjunasagar-Srisailem Tiger Reserve in Andhra Pradesh, the Sundarban Tiger Reserve in West Bengal has become India's second largest tiger reserve.



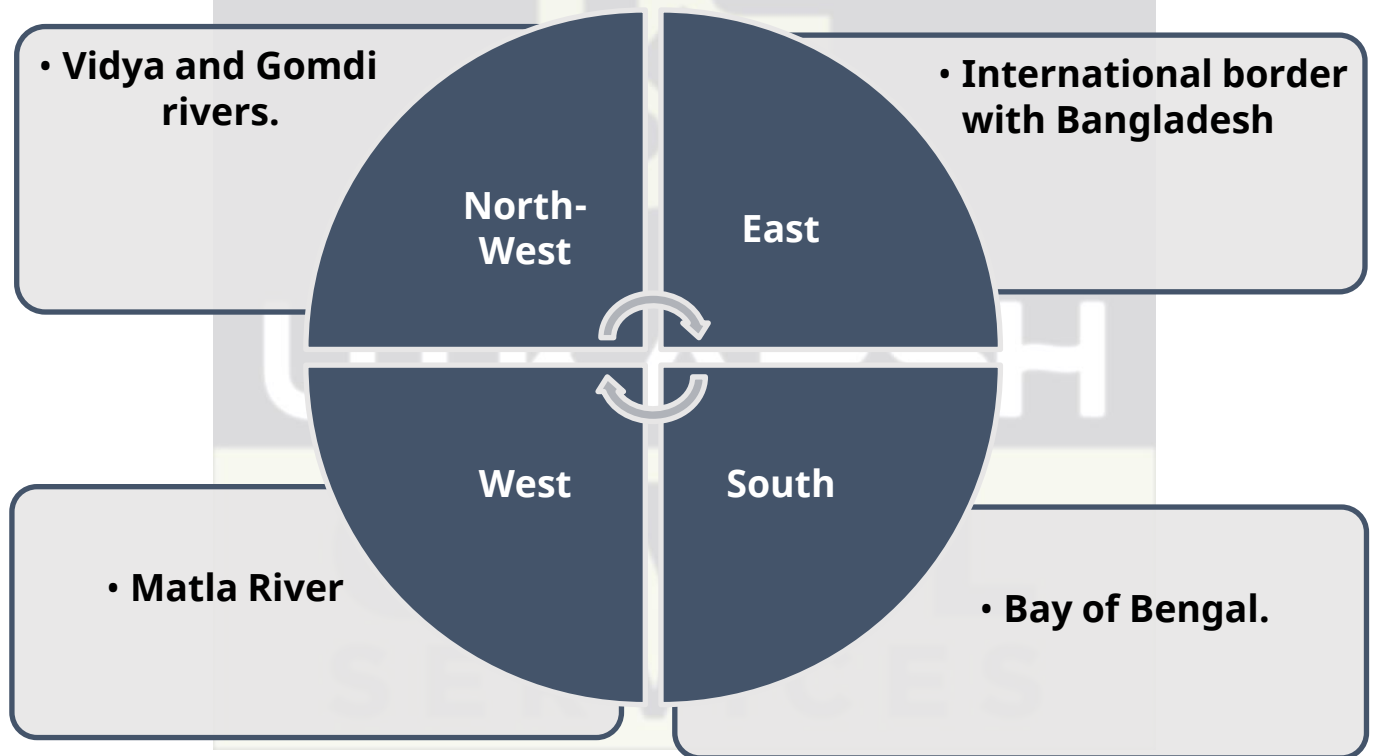
➔ Key Points:

- **Expansion approved by National Wildlife Board:** 1,044.68 sq km (three ranges of South 24 Parganas district - Matla, Raidighi and Ramganga added).
- **New area of Tiger Reserve:** 3,629.57 sq km.
- According to the latest tiger census, the Sundarban Tiger Reserve has an estimated 101 tigers.

Sundarban Tiger Reserve:

- **Location:** Coastal districts of South and North 24-Parganas in West Bengal, in the southernmost part of the lower Ganges delta, adjoining the Bay of Bengal (part of the Sundarbans delta).
- **Status:** Tiger reserve, national park, biosphere reserve (UNESCO World Heritage Site, Ramsar site).

Boundaries :



- **Features :** The only mangrove forest in the world (along with Bangladesh), which supports a significant population of tigers.
- **Major Flora :** Mangrove vegetation, epiphytes, saline plants, parasitic plants, herbs, shrubs, weeds etc.
- **Major Fauna :** Royal Bengal Tiger, Ganges Dolphin, Fishing Cat, Estuarine Crocodile, Irrawaddy Dolphin, King Cobra, Water Monitor Lizard, Migratory Birds etc.

Important Days

National Small Industry Day: 30 August



- **Started:** Year 2000
- **First time organized:** 30 August, 2001
- **Other important points:**
 - **International MSME Day:**
- **Background:** The United Nations declared 27 June as International MSME Day in the year 2017.
- **Theme for the year 2025:** Focuses on "Enhancing the role of MSMEs as drivers of sustainable development and innovation".
- **Contribution of MSMEs in Indian economy:** Second largest sector after agriculture.

India's Gross Domestic Product (GDP)	30 percent
Exports	45 percent
Employment Generation	more than 50 percent

Economic Scenario

Personal Income Tax and Corporate Tax Collection in India

➔ Why in News?

- Personal income tax (PIT) collections overtook corporate tax (CIT) collections for the first time in FY 2023-24.



➔ Key Points:

- **Share of PIT:** 53.4% (2023-24)
- **Share of CIT:** 46.6% (2023-24)

Change over the last decade:

- In 2013-14, the share of CIT was 61.9%, while the share of PIT was 38.1%.

Reasons:

- **Increased compliance:** Tax compliance improved due to digitisation and enforcement measures.

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- **Growing taxpayer base:** The number of personal income tax returns increased from 30.5 million (2013-14) to 70 million (2022-23).
- **Increase in declared wages:** Higher income and salary increases drove the increase in personal income tax.
- **Cut in corporate tax rates:** The cut in corporate tax rates in 2019 led to a decline in the CIT share.

Effects on the economy:

- **Fiscal stability**
- **Broader tax base**
- **Fiscal policy concerns:** Greater reliance on personal taxes created the issue of income inequality, although the overall tax-GDP ratio improved.

Indexes and Reports

NARI 2025 Report on Women's Safety

➔ Why in News?

- This report, released by the National Commission for Women (NCW) in August 2025, is based on a survey conducted on 12,770 women in 31 cities.



➔ Key Points:

- **Main objective:** To collect information related to women's perception of safety and harassment.

Key findings of the report

Overall safety perception

- **National safety score: 65%**
- **Perception of safety:**
 - 60% of women feel "safe" in their cities.
 - 40% of women feel "not so safe" or "unsafe".

- **Safety at night and in public transport:** Decrease in safety perception in these places.

Workplace safety

- 91% of women feel safe at the workplace during the day.
- 53% of women were not aware of POSH (Prevention of Sexual Harassment) policy, though it is legally mandatory.

Harassment and reporting

- **Prevalence of harassment:**
 - 7% of women experienced harassment in public places.
 - Among young women (18-24 years), the figure was 14%.
- **Types of harassment:**
 - Most common form: Verbal harassment (58%), which included teasing and lewd comments.
- **Places of harassment:**
 - Most common places: Neighbourhoods (38%) and public transport (29%).
- **Reporting rate:** Only 1/3 of victims report harassment, the rest do not report due to stigma or fear of further harassment.

City rankings

- **Safest city:** Kohima, where more than 80% women feel safe.
- **Other safe cities:** Mumbai, Visakhapatnam, Bhubaneswar, Aizawl, Gangtok, Itanagar.
- **Least safe cities:** Patna, Jaipur, Faridabad, Delhi, Kolkata, Srinagar, Ranchi.
 - 44% and 42% women feel unsafe in Ranchi and Delhi.

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Awards

Global Equator Prize, 2025

➡ Why in News?

- Recently, the list of winners of the Equator Prize 2025 was announced by the United Nations Development Programme (UNDP).



➡ Key Points:

- **Theme of 2025:** "Nature of Climate Action".
- **Organiser:** United Nations Development Programme (UNDP).
- **Objective:** To recognize the world's indigenous peoples and local communities for their outstanding efforts in biodiversity conservation, sustainable livelihoods and nature-based solutions to climate change.
- **Prize Amount:** Each winner is awarded US\$10,000.
- **2025 Winners:** Apart from India, the full list of UNDP Equator Prize 2025 includes winners from Argentina, Brazil, Ecuador, Indonesia, Kenya, Papua New Guinea, Peru and Tanzania (10 global recipients).

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- **India:** Bibi Fatima Women's Self Help Group of Tirtha Village, Karnataka was honored.

Bibi Fatima Women Self Help Group:

- **Formed:** In 2018 by 15 rural women from Dharwad district of Karnataka.
- **Achievements:**
 - o Millet-based mixed cropping on rain-fed farms using eco-friendly methods.
 - o Management of community seed banks that provide seeds to farmers free of cost.
 - o A solar-powered millet processing unit that makes rotis, vermicelli and other value-added products.
 - o Strengthening climate-resilient agriculture while improving women's income and empowerment.

Other highlights:

Some of the projects awarded the Global Equator Prize, 2025:

Country	Project
Argentina and Peru	Indigenous Crafts Cooperatives
Brazil and Papua New Guinea	Rainforest Conservation
Indonesia and Tanzania	Marine Ecosystem Restoration
Ecuador and Kenya	Agrobiodiversity Area