

Daily Current Affairs

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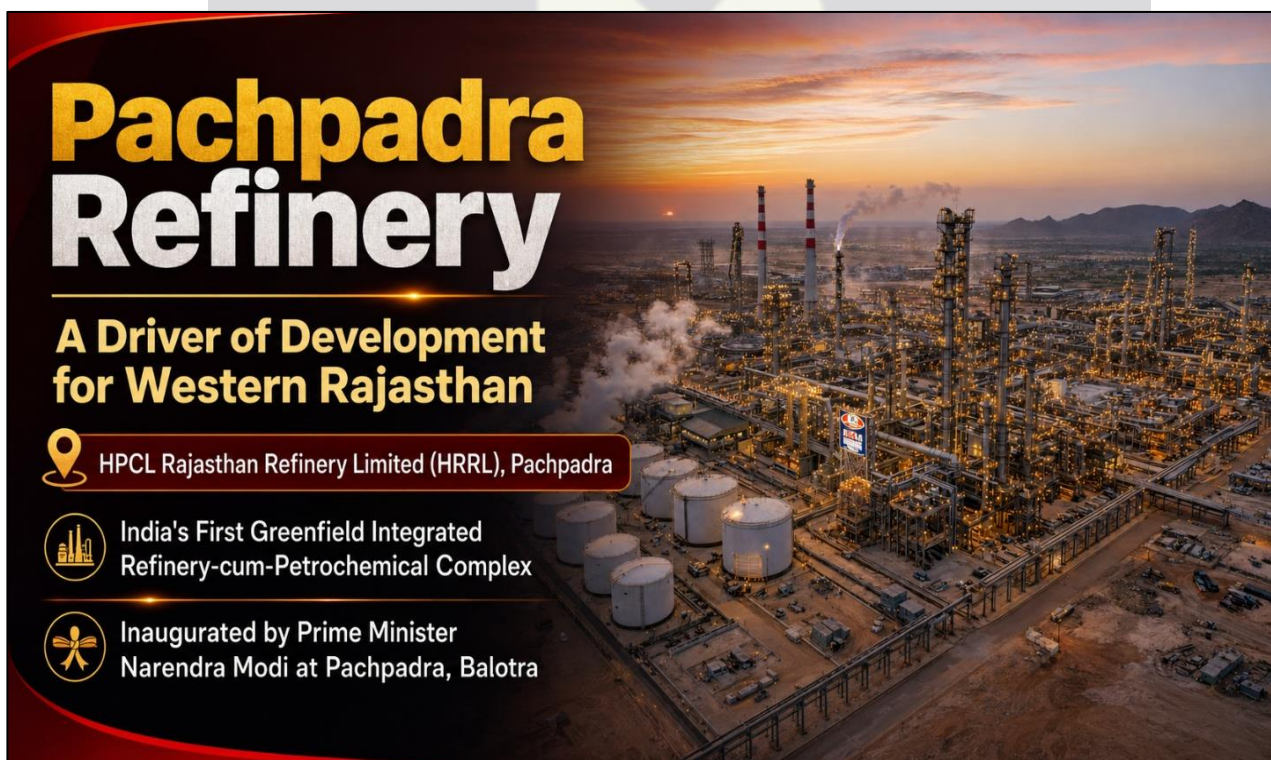


Pachpadra Refinery: A Driver of Development for Western Rajasthan



Why in News?

- On July 4, 2026, Prime Minister Narendra Modi inaugurated the country's first greenfield integrated refinery-cum-petrochemical complex at Pachpadra (Balotra).



Key Points:

- Located at Pachpadra, this is Rajasthan's first and the country's 24th refinery.
- **Name:** HPCL Rajasthan Refinery Limited (HRRL), Pachpadra.
- **Total Investment:** ₹79,459 crore.
- **Operations:** The project is being implemented by HRRL, a joint venture between HPCL and the Government of Rajasthan.

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- **Project Approval:** Granted by the Ministry of Petroleum and Natural Gas on October 9, 2017.
 - **Equity Participation:** 74 percent by Hindustan Petroleum Corporation Limited (HPCL) and 26 percent by the Government of Rajasthan.
 - **Country's first BS-6 compliant project:** This is the country's first project adhering to BS-6 standards that integrates a refinery and a petrochemical complex. It boasts a Nelson Complexity Index of 17.0 (extremely high) and a petrochemical production share of over 26 percent, aligning with global standards for efficiency and sustainability.
 - **Production Capacity:** 9 million metric tonnes per annum (MMTPA), including 2.4 MMTPA of petrochemical products.
 - This refinery will process both imported crude oil (7.5 MMTPA) and crude oil produced within Rajasthan (1.5 MMTPA).
- Significance:**
- The Pachpadra refinery-cum-petro complex will play a pivotal role in strengthening India's energy security, enhancing self-reliance in the petrochemical sector, and accelerating industrial development.
 - Additionally, it will serve as a foundational industry for the development of a petrochemical and plastic park, thereby boosting the growth of downstream industries and ancillary sectors.
 - This refinery will account for 3.5% of the country's total crude oil processing and will be the 13th largest refinery in the nation in terms of processing capacity.
 - With this refinery, Rajasthan will transit from being merely a crude oil-producing state to a hub for manufacturing value-added products (polypropylene and polymers). This will provide a boost to the state's plastic and chemical industries.

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- **Key products from the refinery:** Along with an annual production of 1 million metric tonnes (MMT) of petrol and 4 MMT of diesel, it will produce 1 MMT of polypropylene, 0.5 MMT of Linear Low-Density Polyethylene (LLDPE), 0.5 MMT of High-Density Polyethylene (HDPE), and approximately 0.4 MMT of benzene, toluene, and butadiene annually.
- All these products are vital to the energy and industrial ecosystems of sectors such as transportation, pharmaceuticals, paints, and packaging.

Facts for Prelims:

Rajasthan Petro Zone (RPZ)

- **Developed by:** Rajasthan State Industrial Development and Investment Corporation (RIICO).
- **Location:** Near HPCL Rajasthan Refinery Limited (HRRL) at Pachpadra.
- **Objective:** This petro zone is being developed to promote industries that utilize the refinery's downstream products (by-products).
- Located 12 km from the Pachpadra refinery, the Rajasthan Petro Zone is connected to the Amritsar-Jamnagar Expressway and National Highway 25.

Practice Question for Preliminary Examination:

1. Consider the following statements regarding the Pachpadra refinery:

- (i) It is Rajasthan's first and the country's 24th refinery.
- (ii) It is being operated by HRRL, a joint venture between HPCL and the Government of Rajasthan.
- (iii) The equity participation of HPCL and the Government of Rajasthan in it is 26% and 74%, respectively.

Select the correct statements-

- (a) Only (i) and (ii)
- (b) Only (ii) and (iii)
- (c) Only (i) and (iii)
- (d) All of the above

Foundation Stone Laying for 'Jaipur Metro Phase-2 Project'

Why in News?

- On July 4, 2026, Prime Minister Narendra Modi virtually laid the foundation stone for the 'Jaipur Metro Phase-2 Project' from Pachpadra.



Jaipur Metro Phase-2 Project

- Prime Minister Narendra Modi laid the foundation stone through virtual medium from **Pachpadra**
- Total Cost: ₹13,037.66 crore (as per PIB)
- Expansion: 36 metro stations from **Prahladpura** to **Todi Mod**
- 34 Elevated + 2 Underground Stations
- Total Length: **41 km** North-South Metro Corridor

The infographic features a background image of a modern metro train on an elevated track, with the iconic Hawa Mahal in Jaipur visible in the distance under a sunset sky.

Key Points:

- Total project cost:** ₹13,037.66 crore (as per PIB).
- Expansion:** There will be a total of 36 metro stations from Prahladpura to Todi Mod (including 34 elevated and 2 underground stations).
- Total length:** A North-South metro corridor spanning 41 kilometers will be constructed.
- Stakeholding:** 50:50 percent share between the Government of India and the Government of Rajasthan.

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- **Construction and Operation:** The construction and operation of the state's future metro projects, including Jaipur Metro Phase-2, will be carried out by the 'Rajasthan Metro Rail Corporation (RMRL),' a joint venture between the Government of India and the Government of Rajasthan.
- **Timeline:** Target for completion by September 2031.
- This project aligns with the Rajasthan Public Transport-Oriented Development Policy-2025, proposed metropolitan transport authority reforms, and national sustainable urban transport objectives.

Facts for Prelims:

Phased expansion of Jaipur Metro Rail Corporation (Rajasthan Economic Review – 2025-26)

Phase	Description	Cost	Funding
Phase-1A (Mansarovar to Chandpole)	Operational since 3 June, 2015.	₹2023 crore	Fully funded by the State Government.
Phase-1B (Chandpole to Badi Chaupar)	Operational since 23 September, 2020. Length – 2.01 kilometres. Note: Construction was carried out while preserving the city's heritage.	₹1126 crore	₹810 crore loan from the Asian Development Bank (ADB), remaining amount funded by the Government of Rajasthan.
Phase-1C (Badi Chaupar to Transport Nagar)	DPR has been prepared by the Delhi Metro Rail Corporation.	₹1511.07 crore	To be implemented by the Rajasthan Metro Rail Corporation Limited (RMRL) under the 50:50 Joint Venture Model of the Metro Rail Policy 2017.

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Phase-1D (Mansarovar to 200 Feet Bypass Ajmer Road)	DPR has been prepared by the Delhi Metro Rail Corporation. Project implementation work is in progress.	₹222.15 crore	To be implemented by the Rajasthan Metro Rail Corporation Limited (RMRCL) under the 50:50 Joint Venture Model of the Metro Rail Policy 2017.
Phase-2 (Prahladpura to Todi Mod)	Jaipur Metro has appointed M/s RITES Limited as the Traffic and Transport Consultant. The Detailed Project Report (DPR) for Phase-2 (Prahladpura / Sitapura Industrial Area / Haldighati Marg / Airport / Ambabari / Vidhyadhar Nagar / Tonk Road) has been submitted by M/s RITES Limited.	₹13532.92 crore	To be implemented by the Rajasthan Metro Rail Corporation Limited (RMRCL) under the 50:50 Joint Venture Model of the Metro Rail Policy 2017.

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Practice Questions for Preliminary Examination:

1. Which statement regarding the Jaipur Metro Phase-2 project is incorrect?
 - (a) This project will have a total of 36 metro stations.
 - (b) It will include 34 elevated and 2 underground stations.
 - (c) Its total length will be 41 kilometers.
 - (d) It will be fully funded by the Government of Rajasthan.
2. Who will undertake the construction and operation of Jaipur Metro Phase-2?
 - (a) Delhi Metro Rail Corporation
 - (b) Rajasthan Metro Rail Corporation
 - (c) Rajasthan State Road Transport Corporation
 - (d) Jaipur Development Authority



Prime Minister's Visit to Rajasthan (July 4, 2026)



Why in News?

- Prime Minister Narendra Modi laid the foundation stone and inaugurated various development projects worth over ₹1.05 lakh crore during his one-day visit to Rajasthan on July 4, 2026.



Key Points:

1. **Inauguration of the new Jodhpur Airport terminal:** The Prime Minister inaugurated a state-of-the-art terminal building at Jodhpur Airport, constructed at a cost of ₹480 crore.



- The new airport terminal spans an area of 23,000 square meters and has an annual passenger capacity of 2 million (20 lakh). Built with architecture inspired by Rajasthan's rich heritage, the terminal is equipped with modern passenger amenities.
- **Revised UDAN Scheme:** The Prime Minister launched the revised UDAN (Ude Desh ka Aam Nagrik) scheme from Jodhpur to strengthen regional air connectivity.
- The primary objective of this ambitious scheme is to bolster regional air connectivity in Tier-2 and Tier-3 cities and make air travel affordable and accessible.
- The scheme includes a provision for Viability Gap Funding (VGF) of over ₹10,000 crore for airline companies, ensuring the continuity of regional operations.

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2. Inauguration of the HPCL Rajasthan Refinery.
3. Laying of the foundation stone for Jaipur Metro Phase-2.
4. Laying of the foundation stone for the PowerGrid Barmer-Pratham Transmission Limited project.
5. Inauguration of the PowerGrid Beawar-Dausa Transmission Limited project.
6. Inauguration of the 1000 MW Bikaner Solar Power Project.
7. Inauguration of the 300 MW Karnisar Solar Power Plant (Bikaner).
8. Inauguration of the 4-lane Jodhpur Ring Road Section-II project.
9. Inauguration of the Churu-Sadulpur and Churu-Ratangarh railway lines.

Facts for Prelims:

- **Pattu:** Chief Minister Bhajan Lal Sharma presented a 'Pattu' (a special type of traditional woven blanket) crafted using the traditional handicrafts of Western Rajasthan to the Prime Minister.

Practice Question for Preliminary Examination

1. How many of the following projects are related to Prime Minister Narendra Modi's visit to Rajasthan on July 4, 2026?

- (i) Dedication of the HPCL Rajasthan Refinery
- (ii) Laying of the foundation stone for Jaipur Metro Phase-2
- (iii) Inauguration of the 1000 MW Bikaner Solar Power Project
- (iv) Inauguration of the Churu-Sadulpur and Churu-Ratangarh rail routes

Select the correct option-

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

IIT Jodhpur Becomes a Full Member of the 'CMS Collaboration'



Why in News?

- Recently, the Indian Institute of Technology (IIT) Jodhpur became a full member of the prestigious CMS (Compact Muon Solenoid) collaboration at CERN, Geneva (Switzerland).



**One Universe. One Global Endeavour.
One New Beginning.**

A Historic Milestone for
IIT JODHPUR

**IIT Jodhpur Becomes a Full
Member of the
CMS Collaboration
CERN (European
Organization for Nuclear
Research)**

As part of one of the world's largest international scientific collaborations, *IIT Jodhpur* will contribute to cutting-edge research at the *CMS experiment* at the *Large Hadron Collider (LHC)* at *CERN, Geneva, Switzerland*, through research in fundamental physics, detector development, and scientific computing.

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Key Points:

- IIT Jodhpur's inclusion in the CMS collaboration underscores India's growing participation in global science and research.
- **Leadership:** The CMS program at IIT Jodhpur will be led by Dr. Lata Panwar and Dr. Jitendra Kumar.
- **CMS (Compact Muon Solenoid):** CMS is a major scientific experiment at CERN's Large Hadron Collider (LHC). It was through this experiment in 2012 that scientists made the historic discovery of the Higgs boson, popularly known as the 'God Particle.' This is considered one of the greatest scientific achievements of the 21st century.
- **CERN, Geneva:** CERN (European Organization for Nuclear Research) is the world's largest particle physics laboratory and houses the Large Hadron Collider (LHC).
- It is the most powerful particle accelerator ever built, enabling scientists to seek answers regarding the origin of the universe, the fundamental structure of matter, and the basic laws of nature.
- With this prestigious membership, IIT Jodhpur has joined an elite international group of universities and leading research institutions collaborating to find answers to humanity's most significant scientific questions.
- As a full member, scientists from IIT Jodhpur will participate in the long-term scientific programs of the CMS collaboration.
- Additionally, researchers at the institute will employ modern technologies such as Artificial Intelligence (AI) and Machine Learning (ML) for cutting-edge particle physics research, the development of next-generation detector technology, and the analysis of vast amounts of data generated from particle collisions at the Large Hadron Collider (LHC).



Practice Question for the Preliminary Examination

- Q. Which institute recently became a full member of the CMS Collaboration in Geneva?
- (a) Indian Institute of Technology (IIT), Jodhpur.
 - (b) Malaviya National Institute of Technology (MNIT), Jaipur.
 - (c) Indian Institute of Information Technology, Kota.
 - (d) All India Institute of Medical Sciences (AIIMS), Jodhpur.





NEWS IN SHORTS ⚡

S. No.	News
1.	Jaipur Ranks First Nationwide in 'Average Annual Salary Per Employee' ■ According to the recent report 'Labour Market Dynamics in Million-Plus Cities' by the National Statistical Office (NSO) under the Ministry of Statistics and Programme Implementation (MoSPI), Jaipur ranks first in the country in terms of average annual salary per employee. ■ However, in terms of productivity per employee specifically Gross Value Added (GVA) Jaipur ranks 12th in the country. ■ This report, released by the NSO, assessed the average annual salary per employee in commercial and industrial establishments across 46 cities in the country with a population exceeding one million (10 lakh).
2.	Dr. Sunil Singh: CM Excellence Award - 2026 ■ Dr. Sunil Singh of the Medical and Health Department has developed an Artificial Intelligence (AI)-based screening solution for diabetic retinopathy. ■ He was honored with the CM Excellence Award-2026 for this outstanding innovation. ■ He is the first doctor from the Medical and Health Department to achieve this feat. This AI-based technology will help ensure timely treatment and reduce the risk of vision loss by enabling the early detection of diabetic retinopathy (DR) a serious eye condition affecting diabetic patients.



3.

Rajasthan at the 21st National Ice Skating Championship - 2026

- **Event:** Held at the Himadri Ice Rink in Dehradun from June 25 to June 30, 2026.
- A contingent of 46 skaters from the 'Ice Skating Foundation of Rajasthan' participated in this competition.
- **Twisha Sharda (Jaipur):** The figure skater from Jaipur won a silver medal.
- **Mayra Tyagi (Udaipur):** Won one silver and one bronze medal.
- Additionally, Aritra Kumar, Jayashree Khandelwal, Vidhi Bhatt, and Saisha from Rajasthan were selected for the Asian Open Short Track Speed Skating Trophy.





Maritime Development Fund (MDF)



Why in News?

- The Ministry of Ports, Shipping and Waterways (MoPSW) held an industry consultation regarding the Maritime Investment Fund (MIF), which is being established under the Maritime Development Fund (MDF).



Key Points:

MDF

- Established in September 2025 with a total corpus of ₹25,000 crore to meet the long-term financing needs of the maritime sector.

Two components:

- **Maritime Investment Fund (MIF):** The Government of India contributes 49%, while the remaining amount is raised from other institutional, public sector, and private investors.
- **Interest Incentive Fund (IIF):** Fully funded through budgetary support from the Government of India.



Economic Developments



9 Years of Goods and Services Tax (GST)



Why in News?

- The Goods and Services Tax (GST) has completed nine years since its inception in 2017.



Key Points:

- Recent next-generation GST reforms have further simplified the tax structure, reduced rates, eased compliance, and strengthened GST's role in supporting households, MSMEs, businesses, and India's broader economic growth.

Achievements of GST over 9 years

- **Creation of a national market:** GST replaced India's fragmented indirect tax system with a unified framework based on the principle of "One Nation, One Tax." It subsumed 17 different taxes and 13 cesses, thereby reducing tax fragmentation, hidden costs, and the cascading effect.
- **Expansion of the taxpayer base:** The number of GST taxpayers rose from 66.5 lakh in 2017 to 1.65 crore by May 2026, reflecting greater formalization of the economy and widespread tax compliance.
- **Robust revenue growth:** Over the past five years, collections increased from approximately ₹13.76 lakh crore in 2021-22 to ₹22.27 lakh crore in 2025-26.
- **High-frequency indicator of economic activity:** GST collection has emerged as a crucial indicator of consumption, trade, compliance, and economic formalization.
- **Strengthening of cooperative federalism:** The GST Council has served to bring the Centre and States together in the tax decision-making process.

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- **Digital transformation of tax administration:** The Goods and Services Tax Network (GSTN) has provided a common digital infrastructure for taxpayers, the Centre, States, and other stakeholders. E-invoicing, pre-filled returns, real-time verification, and digital solutions have improved transparency and reduced manual reporting errors.
- **Ease of compliance for small taxpayers:** GST reforms have simplified compliance through measures such as higher exemption thresholds, the composition scheme, quarterly return filing, filing 'nil' returns via SMS, and expedited registration for low-risk applicants.

RAS MODEL QUESTION:

- Q.** "The GST Council has emerged as a unique symbol of cooperative federalism in India; yet, striking a balance regarding fiscal autonomy between the Centre and the States remains an ongoing challenge." Critically examine.



Schemes and Policies



MANAS Initiative (Narcotics Prohibition Intelligence Centre)



Why in News?

- The National Narcotics Helpline (MANAS) is strengthening India's fight against drug abuse by providing a technology-based platform for reporting drug-related activities and accessing rehabilitation services.



Key Points:

- MANAS was launched in 2024 in collaboration with the Digital India Corporation (DIC) under the aegis of the Narcotics Control Bureau, Ministry of Home Affairs.
- The platform is accessible via the national helpline number 1933, an official portal, email, and the UMANG app.
- MANAS brings together the vision of Digital India and the mission of a drug-free India.

MCQ:

- Q. What is the primary objective of the 'MANAS' initiative, which has recently been in the news?
- (A) To provide mental health and counseling services.
- (B) To strengthen the fight against drug abuse and facilitate access to rehabilitation services.
- (C) To monitor border security and illegal infiltration.
- (D) To promote digital literacy in rural areas.

Medical Innovation Patent Mitra Initiative



Why in News?

- The National Medical Commission (NMC) has advised all medical colleges and health institutions to utilize the Indian Council of Medical Research's (ICMR) 'Medical Innovation Patent Mitra' platform.



Key Points:

Medical Innovation Patent Mitra Initiative

- The Medical Innovation Patent Mitra initiative is a centralized, expert-driven digital platform that serves as an institutional Intellectual Property (IP) incubator for India's healthcare sector.
- It provides comprehensive and practical support for the protection, management, maintenance, and commercialization of groundbreaking biomedical innovations developed by researchers, clinicians, and medical students.
- **Key Implementing Agency:** Developed and managed under the Indian Council of Medical Research (ICMR).

MCQ:

Q. What is the primary objective of the 'Medical Innovation Patent Mitra' platform?

- (A) To provide free online medical education to all medical students in the country.
- (B) To train rural health workers in the field of medicine.
- (C) To assist in the protection, management, and commercialization of biomedical innovations by medical researchers and clinicians.
- (D) To streamline the new licensing process for private hospitals.



INTERNATIONAL



Indus Waters Treaty to Remain Suspended: India



Why in News?

- India has reiterated that the Indus Waters Treaty will remain suspended until Pakistan ends its support for cross-border terrorism.



Key Points:

- India had suspended the treaty following the Pahalgam terrorist attack in April 2025.



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Indus Waters Treaty

- **Signing:** Between India and Pakistan in Karachi on September 19, 1960, with the World Bank acting as mediator/facilitator.
- **Rivers Involved:**
 - o **Eastern Rivers (Ravi, Beas, and Sutlej):** Allocated to India for unrestricted use.
 - o **Western Rivers (Indus, Jhelum, and Chenab):** Allocated to Pakistan.
- Under the treaty, India is permitted limited use for domestic purposes, non-consumptive uses, irrigation, and river-based hydroelectric projects.
- **Dispute Resolution under IWT:**
 - o **Stage 1:** Permanent Indus Commission (PIC) with a Commissioner from each country (annual meetings held alternately in both countries).
 - o **Stage 2:** Neutral Expert (appointed by the World Bank); involves delivering a binding decision.
 - o **Stage 3:** Court of Arbitration (based on agreement between parties or at the request of either party).

Implications of Suspending the Indus Waters Treaty

For Pakistan:

- **Food Insecurity:** The Indus river system irrigates over 80% of Pakistan's food crops.
- **Economy:** Wheat, rice, and cotton dependent on the Indus system generated US\$ 4.8 billion in exports (2022).
- **Power and Water Crisis:** Approximately one-third of Pakistan's electricity comes from hydroelectric sources, while the country is already grappling with a water crisis.

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For India:

- **Weaponization of Water Resources:** Global attention drawn to Pakistan's state-terror nexus.
- However, this could set a precedent for upstream nations on the Brahmaputra River particularly China to adopt similar strategies.
- **Credibility as a responsible international partner:** A unilateral suspension could be viewed as undermining treaty commitments.
- **Ecological imbalance:** New water infrastructure projects could impact the Indus Basin, which is rich in biodiversity and seismically sensitive.

RAS MODEL QUESTION:

- Q. Discuss the ecological imbalances and geological risks arising from the development of new water infrastructure by India following the suspension of the Indus Waters Treaty. Is the 'weaponization of water' a sustainable option for ensuring national security? Answer with arguments.



India-US Relations on the 250th Anniversary of American Independence



Why in News?

- Relations between the world's largest democracy and its oldest democracy have transformed dramatically shifting from the distance characteristic of the Cold War era to a robust strategic partnership.



Key Points:

Historical Evolution of India-US Relations

- **The Cold War Era and Estrangement (1947–1990):**
 - o **Policy of Non-Alignment:** Post-independence, India adopted a policy of non-alignment to maintain strategic autonomy, resulting in geopolitical distance from Washington.
- **Points of Friction:**
 - o **1971 India-Pakistan War:** India signed the Indo-Soviet Treaty of Friendship; the US deployed the USS Enterprise Task Force to the Bay of Bengal in support of Pakistan.
 - o **Nuclear Tensions:** India's 1974 "Smiling Buddha" test triggered US export controls. The 1998 Pokhran-II tests resulted in the imposition of immediate economic sanctions.
- **Turning Points (1991–2024):**
 - o **Economic Liberalization (1991):** The end of the Cold War and India's 1991 economic reforms opened markets and initiated a thaw in relations.
 - o **Diplomatic Shift (1999–2001):** During the 1999 Kargil conflict, the US pressured Pakistan to withdraw its troops. By 2001, the remaining nuclear sanctions had been lifted.
 - o **Major Milestone (2008):** The India-US Civil Nuclear Agreement ended India's nuclear isolation and fostered fundamental trust between the two democracies.

- o **India as a Defence Partner (2016):** Foundational Defence agreements such as LEMOA (logistics), COMCASA (communications), and BECA (geospatial) were signed.
- o **Indo-Pacific Focus (2017):** The Quadrilateral Security Dialogue (Quad) was revived with Japan and Australia due to shared concerns regarding China.

Current State of India-US Relations (2025-26)

Economic and Trade Dynamics:

- The US is India's second-largest trading partner, with bilateral trade (goods + services) exceeding \$200 billion (India holds a trade surplus) and an ambition to reach \$500 billion.
- **Tariff-related tensions in 2025:** The US imposed reciprocal tariffs (up to 50%) due to India's purchase of Russian oil.
- **2026 Interim Trade Framework:** Tariffs on several Indian goods have been reduced to approximately 18%.
- **Defence and Security Cooperation**
 - o **Key Aircrafts/Helicopters acquired:** C-17 Globemaster, C-130J, P-8I Poseidon, Apache helicopters, Chinook, MH-60R Seahawk.
 - o **2025 10-Year Framework:** Signed for a Major Defence Partnership, focusing on interoperability (land, sea, air, space, cyber), co-development, and industrial cooperation.
 - o **Joint Exercises:** Regular exercises such as Yudh Abhyas (Army), Vajra Prahar, and Malabar (Naval, with Quad partners).

RAS MODEL QUESTION:

- Q. "Despite the deepening of strategic and Defence cooperation, tariff-related tensions on the trade front remain a persistent internal challenge in India-US relations." Critically evaluate this statement in the context of the recent tariff disputes of 2025-26 and the purchase of Russian oil.

SCIENCE & TECHNOLOGY

Defence Acquisition Council



Why in News?

- The Defence Acquisition Council (DAC) has approved capital acquisitions for the procurement of several weapon systems.



Key Points:

- **Defence Acquisition Council (Chairperson: Defence Minister):** Grants 'in-principle' approval for capital acquisitions within the Long-Term Perspective Plan and accords 'Acceptance of Necessity' for acquisition proposals.

Approval for Key Weapon Systems

- **Akash-Tarang:** An electronic warfare system for the Indian Army designed to counter Unmanned Aerial Vehicles (UAVs).
- Unlike a 'hard kill,' this system merely disrupts frequencies, jams GPS/GNSS, and severs the communication link between the drone and its operator ('soft kill').
- **Medium-Range Surface-to-Air Missile (MR-SAM):** Developed by Israel Aerospace Industries and DRDO; it has a range of over 70 km and is based on the Barak-8 missile.
- **Very Short-Range Air Defence System (VSHORADS):** Designed to neutralize low-altitude aerial threats at short ranges.
- This is an indigenously developed, man-portable air defence system.