

Daily Current Affairs

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World MSME Day 2026

- On 27th June every year, the world observes the Micro-, Small and Medium-sized Enterprises (MSME) Day, and this day recognizes the important contribution of small businesses to economic growth, employment, innovation, and sustainable development.
- This year's theme will focus on **“Empowering MSMEs through Innovation and Sustainable Industrial Development”**.
- Micro-, Small and Medium-sized Enterprises (MSME) Day is observed every year on 27th June to raise awareness of the critical role MSMEs play in creating jobs, reducing poverty, promoting entrepreneurship, and supporting inclusive economic development.
- MSMEs also contribute directly to the various Sustainable Development Goals, which include such as,
 - SDG 1: No Poverty, SDG 5: Gender Equality
 - SDG 8: Decent Work and Economic Growth
 - SDG 9: Industry, Innovation and Infrastructure
 - SDG 10: Reduced Inequalities
 - SDG 12: Responsible Consumption and Production



India Inaugurates Nuclear-Heat Hydrogen Facility

- India inaugurated the world's first hydrogen production facility using nuclear process heat on 26 June 2026 at the Indira Gandhi Centre for Atomic Research in Kalpakkam, Tamil Nadu. The facility uses the Copper-Chlorine thermochemical cycle and receives nuclear process heat from the Fast Breeder Test Reactor.
- Hydrogen can be produced by thermochemical water-splitting processes that use heat instead of direct electricity for part of the reaction chain. The Copper-Chlorine cycle is one such process and belongs to the class of high-temperature thermochemical hydrogen production methods.
- The Indira Gandhi Centre for Atomic Research, or IGCAR, is a premier nuclear research centre under the Department of Atomic Energy in Kalpakkam, Tamil Nadu. It is associated with advanced reactor research, fuel cycle studies, and fast reactor technology in India.
- The Fast Breeder Test Reactor, is located at IGCAR and provides the nuclear process heat used in the facility. The Copper-Chlorine thermochemical cycle was developed indigenously by the Bhabha Atomic Research Centre in Mumbai and is designed for hydrogen generation through a closed chemical loop.



India Conducts First Jet Aircraft GAGAN Landing

- India conducted its first satellite-based landing system approach on a jet engine aircraft on 27 June 2026 at Udaipur airport. The Directorate General of Civil Aviation used an IndiGo Airbus A320 for the approach through GAGAN, which is India's Satellite-Based Augmentation System for civil aviation.
- GAGAN stands for GPS Aided GEO Augmented Navigation. It is a Satellite-Based Augmentation System developed jointly by the Indian Space Research Organisation and the Airports Authority of India. The system provides navigation support by using geostationary satellites and ground reference stations to improve the accuracy of GPS signals.
- GAGAN supports Localiser Performance with Vertical Guidance approaches, which provide both horizontal and vertical guidance to aircraft. These approaches are used at airports where an Instrument Landing System is not available, especially at secondary airports.
- IndiGo introduced LPV operations on its ATR fleet in 2022 and later expanded SBAS-enabled operations across its wider fleet.
- The Directorate General of Civil Aviation mandated GAGAN equipment on all aircraft registered in India after 1 July 2021. India is the first country in the Asia-Pacific region with an operational SBAS capability, and it is among a small group of countries with such a system.
- GAGAN provides navigation accuracy of about 3 metres for civil aviation use and supports Air Traffic Management.



West Bengal to Table Uniform Civil Code Bill

- West Bengal is set to table a Uniform Civil Code Bill in the Assembly on June 29, 2026, during the Budget Session. The proposed law seeks a common civil code for marriage, divorce, inheritance and adoption for all citizens, irrespective of religion.
- Article 44 of the Constitution of India places the Uniform Civil Code among the Directive Principles of State Policy. Personal laws in India presently cover matters such as marriage, divorce, succession and adoption for different religious communities.
- The draft Bill is reported to include uniform rules on inheritance rights, a ban on polygamy, invalidation of child marriages and mandatory registration of live-in relationships. Similar provisions have been associated with UCC-related laws in states such as Uttarakhand, Assam and Gujarat.
- West Bengal would become the fourth state to implement a Uniform Civil Code after Uttarakhand, Gujarat and Assam if the Bill is passed. The state has a large Muslim population and a mixed personal law framework for different communities.



ISRO Tests Semi-Cryogenic Rocket Engine

- ISRO conducted a hot test of its semi-cryogenic engine power head on 24 June 2026 at the ISRO Propulsion Complex in Mahendragiri, Tamil Nadu. The test reached 175 tonnes of thrust, which was 88% of the target thrust, and it was the eighth hot test in the Power Head Test Article series.
- The semi-cryogenic propulsion stage is designated SC120 and uses the SE2000 engine with a thrust rating of 2,000 kilonewtons. It is being developed to replace the L110 core stage of the LVM3 launch vehicle.
- The semi-cryogenic stage uses liquid oxygen and kerosene as propellants. Liquid oxygen and kerosene are classified as cryogenic oxidiser and hydrocarbon fuel combinations in launch vehicle propulsion systems.
- ISRO conducted a sea-level hot test of the CE20 cryogenic engine in March 2026 at a thrust level of 22 tonnes. ISRO also tested a redesigned PS4 engine on 9 May 2026 at the ISRO Propulsion Complex using Additive Manufacturing technology.



REVIEW QUESTIONS

1. World MSME Day is observed every year on which date?

- A) 21 June
- B) 25 June
- C) **27 June**
- D) 30 June

Answer: C) 27 June

Explanation: World MSME Day is observed annually on **27 June** to recognize the contribution of Micro, Small and Medium-sized Enterprises to employment, innovation, and economic development.

2. What is the theme of World MSME Day 2026?

- A) MSMEs for Global Growth
- B) Green Economy for All
- C) **Empowering MSMEs through Innovation and Sustainable Industrial Development**
- D) Inclusive Business Revolution

Answer: C) Empowering MSMEs through Innovation and Sustainable Industrial Development

Explanation: The 2026 theme emphasizes innovation and sustainable industrial practices to strengthen MSMEs.

3. India inaugurated the world's first hydrogen production facility using nuclear process heat at which location?

- A) Trombay, Maharashtra
- B) Kota, Rajasthan
- C) **Kalpakkam, Tamil Nadu**
- D) Kudankulam, Tamil Nadu

Answer: C) Kalpakkam, Tamil Nadu

Explanation: The facility was inaugurated at the **Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam.**

4. Which thermochemical process is used in India's new nuclear-heat hydrogen production facility?

- A) Sulfur-Iodine Cycle
- B) Steam Reforming
- C) Alkaline Electrolysis
- D) **Copper-Chlorine Cycle**

Answer: D) Copper-Chlorine Cycle

Explanation: The facility uses the **Copper-Chlorine thermochemical cycle**, developed by BARC, to produce hydrogen.

5. GAGAN stands for:

- A) Geo Augmented Global Aviation Network
- B) Global Air Guidance and Navigation
- C) **GPS Aided GEO Augmented Navigation**
- D) Geostationary Aviation Guidance and Network

Answer: C) GPS Aided GEO Augmented Navigation

Explanation: GAGAN is India's Satellite-Based Augmentation System jointly developed by ISRO and AAI.

6. Which aircraft was used during India's first jet aircraft landing using the GAGAN navigation system?

- A) Boeing 737 MAX
- B) Airbus A350
- C) ATR-72
- D) **IndiGo Airbus A320**

Answer: D) IndiGo Airbus A320

Explanation: An **IndiGo Airbus A320** successfully carried out the satellite-guided landing approach at Udaipur Airport.

7. Article 44 of the Constitution of India is related to which of the following?

- A) Fundamental Rights
- B) Emergency Provisions
- C) **Uniform Civil Code**
- D) Right to Education

Answer: C) Uniform Civil Code

Explanation: Article 44, under the Directive Principles of State Policy, encourages the State to secure a Uniform Civil Code for all citizens.

8. If passed, West Bengal would become the _____ state to implement the Uniform Civil Code.

- A) Second
- B) Third
- C) **Fourth**
- D) Fifth

Answer: C) Fourth

Explanation: West Bengal would become the **fourth state**, after Uttarakhand, Gujarat, and Assam, to implement a Uniform Civil Code.

9. The semi-cryogenic propulsion stage being developed by ISRO is designated as:

- A) PSLV-C60
- B) GSLV Mk III
- C) CE20
- D) **SC120**

Answer: D) SC120

Explanation: The **SC120** semi-cryogenic stage is powered by the SE2000 engine and is intended to replace the L110 core stage of the LVM3 launch vehicle.

10. Which combination of propellants is used in ISRO's semi-cryogenic rocket engine?

- A) Liquid Hydrogen and Liquid Oxygen
- B) Nitrogen Tetroxide and UDMH
- C) Solid Fuel and Liquid Oxygen
- D) **Liquid Oxygen (LOX) and Kerosene**

Answer: D) Liquid Oxygen (LOX) and Kerosene

Explanation: ISRO's semi-cryogenic engine uses **Liquid Oxygen (LOX)** as the oxidizer and **kerosene** as the fuel, providing higher efficiency and lower operational costs.

