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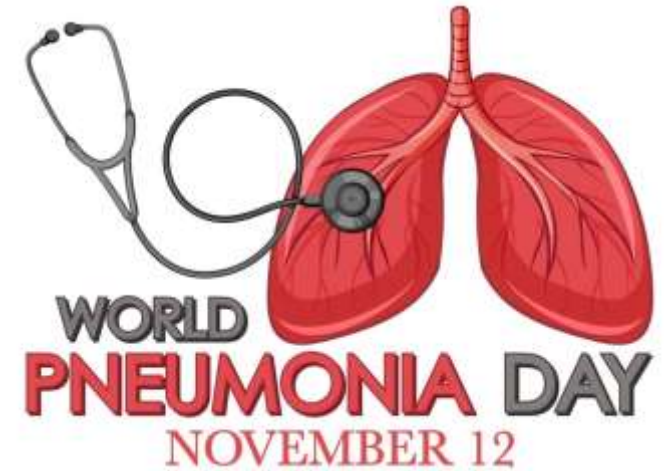
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# Important Days



➤ **What is the theme for World Pneumonia Day 2024?**

- A) "Breathe Easy: Prevent Pneumonia"
- B) "Every Breath Counts: Stop Pneumonia in Its Track"
- C) "Vaccinate to Eradicate Pneumonia"
- D) "Stronger Lungs, Healthier Lives"
- E) "Protect Every Life from Pneumonia"



**Answer**

**B) "Every Breath Counts: Stop Pneumonia in Its Track"**



# Important Days



## Event and Location:

- **Event:** World Pneumonia Day
- **Date:** Observed annually on November 12





# Important Days



## Mandates and Objectives:

- **To raise global awareness about pneumonia**, focusing on its prevention, treatment, and the need for early detection.
- To advocate for improved healthcare accessibility, vaccination programs, and affordable treatment options to reduce pneumonia-related mortality, especially **in children under five and the elderly**.



# Important Days



## Key Highlights of World Pneumonia Day 2024:

- **Theme for 2024:** "Every Breath Counts: Stop Pneumonia in Its Track"
  - Emphasizes the importance of each breath and underscores the urgency of combating pneumonia through timely detection, effective treatment, and preventive measures.
- **History:** Established in 2009 by the Global Coalition against Child Pneumonia to bring attention to pneumonia, which remains a leading cause of death among children worldwide.
- **Significance:** World Pneumonia Day addresses the health crisis pneumonia presents, particularly in low- and middle-income countries with limited healthcare resources, by promoting awareness and resources for prevention and treatment.



# Important Days



## Preventive Tips to Reduce Pneumonia Risk:

- **Vaccinations:** Getting pneumococcal and flu vaccines.
- **Handwashing:** Regularly wash hands with soap to prevent respiratory infections.
- **Avoid Smoking:** Smoking weakens lung immunity, increasing pneumonia risk.
- **Healthy Lifestyle:** A balanced diet, adequate sleep, and stress management bolster the immune system.
- **Respiratory Etiquette:** Cover the mouth and nose while coughing or sneezing to reduce germ spread.
- **Indoor Air Quality:** Use air purifiers, ensure ventilation, and avoid harsh chemicals indoors.
- **Early Treatment:** Address respiratory infections early to prevent them from progressing to pneumonia.



# Important Days



## Important Terms Explained:

- **Pneumonia:** A serious lung infection caused by bacteria, viruses, or fungi, affecting breathing and oxygen supply to the body.
- **Global Coalition against Child Pneumonia:** An alliance of health organizations focused on reducing child mortality from pneumonia.



# Important Days



## Static GK Information:

- **World Pneumonia Day**
  - **Founded:** 2009
  - **Organized By:** Global Coalition against Child Pneumonia
  - **Date:** November 12



# Important Days



## Tabular Summary:

Key Detail	Description
Event	World Pneumonia Day
Date	November 12, 2024
Theme	"Every Breath Counts: Stop Pneumonia in Its Track"
Established By	Global Coalition against Child Pneumonia
Significance	Highlights pneumonia awareness, promotes prevention and treatment, especially for children
Preventive Tips	Vaccinations, handwashing, smoke avoidance, healthy diet, good indoor air quality
Primary Goal	Reduce pneumonia-related mortality, especially in children and the elderly



# OBITUARY



➤ **Which world-renowned Mridangam scholar, who was a disciple of Palgat Mani Ayer, recently passed away at the age of 88?**

- A) Dvaram Venkataswamy Naidu
- B) G. N. Bala Subramaniam
- C) Varadarao Kamalakara Rao
- D) Semma Gudi Srinivasa Iyer
- E) Chembai Vaidyanatha Bhagavatar

**Answer**

**C) Varadarao Kamalakara Rao**



# OBITUARY



## Event and Location:

- **Event:** Passing of renowned Mridangam scholar Varadarao Kamalakara Rao
- **Location:** Rajahmundry, Andhra Pradesh





# OBITUARY



## Mandates and Objectives:

- To honor the legacy of **Varadarao Kamalakara Rao**, a distinguished Mridangam maestro who significantly contributed to **Indian classical music**.
- To remember his influence in promoting the mridangam worldwide and his collaborations with eminent musicians.



# OBITUARY



## Key Highlights of Varadarao Kamalakara Rao's Life and Career:

- **Musical Journey:** Varadarao Kamalakara Rao trained under the legendary Palgat Mani Ayer, becoming a Mridanga Vidwan at an early age.
- **Honors and Awards:** Received the Central Sangeet Natak Akademi Award and the President's Medal from Dr. Sarvepalli Radhakrishnan during his youth.
- **Collaborations:** Provided mridangam accompaniment to prominent musicians, including Dvaram Venkataswamy Naidu, G. N. Bala Subramaniam, Semma Gudi Srinivasa Iyer, Chembai Vaidyanatha Bhagavatar, and Mandolin Srinivas.



# OBITUARY



## Key Highlights of Varadarao Kamalakara Rao's Life and Career:

- **International Recognition:** His music was featured in prestigious venues, including the United Nations Hall in New York.
- **Media Contributions:** Rao's mridanga performances were widely appreciated in Doordarshan's programs and All India Radio's national broadcasts.



# OBITUARY



## Important Terms Explained:

- **Mridangam:** A classical South Indian percussion instrument integral to Carnatic music performances, often accompanying vocalists, violinists, and other instrumentalists.
- **Sangeet Natak Akademi Award:** A national award presented by India's premier arts institution for exceptional contributions to music, dance, and drama.



# OBITUARY



## Static GK Information:

- **Sangeet Natak Akademi**
  - **Founded:** 1952
  - **Headquarters:** New Delhi, India
  - **Purpose:** Promoting and preserving the traditional performing arts of India



# OBITUARY



## Tabular Summary:

Key Detail	Description
Event	Passing of Mridangam scholar Varadarao Kamalakara Rao
Age at Passing	88 years
Location	Rajahmundry, Andhra Pradesh
Disciple of	Palgat Mani Ayer
Major Awards	Central Sangeet Natak Akademi Award, President's Medal
Collaborations	Worked with Dvaram Venkataswamy Naidu, G.N. Bala Subramaniam, and others
Global Recognition	Performed at United Nations Hall in New York
Significance	Influential mridangam artist, contributed to global recognition of Indian classical music



# RANKING



- Which of the following statements about India's achievements in intellectual property (IP) according to the WIPO 2024 Report is NOT correct?
- A) India is among the top 10 countries globally in patents, trademarks, and industrial designs.
  - B) India's patent applications grew by 36.4% in 2023.
  - C) India ranks sixth globally in patent applications.
  - D) The top three sectors in industrial design applications in India are Textiles, Tools, and Health.
  - E) India ranks fourth globally in trademark filings.



**Answer**

**B) India's patent applications grew by 36.4% in 2023.**



# RANKING



## Event and Location:

- **Event:** India's Position in WIPO 2024 Report for IP Growth
- **Location:** Geneva, Switzerland (WIPO Headquarters), with data pertaining to India





# RANKING



## Mandates and Objectives:

- To provide insights into global trends in intellectual property (IP) filings, such as patents, trademarks, and industrial designs.
- To highlight the IP achievements of leading economies, showcasing growth in innovation and brand protection sectors.



# RANKING



## Key Highlights from the WIPO 2024 Report on India:

- **Patent Growth:** India registered a **15.7% growth** in patent applications in 2023, leading among the top 20 origins.
  - India is ranked **sixth globally** for patents with **64,480 applications**, with resident filings making up **55.2%** of the submissions.
  - India's patent office granted **149.4% more patents** in 2023 compared to the previous year.
- **Industrial Design Growth:** Industrial design applications increased by **36.4%**, with prominent growth in **Textiles, Tools and Machines, and Health and Cosmetics sectors**.
  - This growth indicates strong developments in India's manufacturing and creative industries.



# RANKING



## Key Highlights from the WIPO 2024 Report on India:

- **Trademark Filings:** India is ranked **fourth globally** in trademark filings, with a **6.1% increase** in 2023.
  - Key sectors for trademark filings include **Health (21.9%)**, **Agriculture (15.3%)**, and **Clothing (12.8%)**.
  - India holds over **3.2 million trademarks** in force, making it second worldwide in active registrations.



# RANKING



## Important Terms Explained:

- **Intellectual Property (IP):** Legal rights that protect creations such as inventions, brands, designs, and artwork.
- **Resident Filings:** Filings made by applicants within their home country, indicating domestic innovation growth.
- **Patent-to-GDP Ratio:** Measures the number of patents relative to a country's GDP, showing the economic impact of IP.



# RANKING



## Static GK Information:

- **World Intellectual Property Organization (WIPO)**
  - **Headquarters:** Geneva, Switzerland
  - **Founded:** 1967
  - **Director-General:** Daren Tang



# RANKING



## Tabular Summary:

Key Detail	Description
Event	India ranks among top 10 countries in patents, trademarks, and industrial designs
Report Date	November 12, 2024
Issued By	World Intellectual Property Organization (WIPO)
India's Global Rank in Patents	6th
Growth in Patent Applications	15.7% in 2023
Industrial Design Applications	36.4% increase, with top sectors in Textiles, Tools, Health
India's Global Rank in Trademarks	4th
Trademark Filings Growth	6.1% increase in 2023, with 3.2 million active registrations
Patent-to-GDP Ratio	Increased from 144 to 381 over the past decade
Significance	India's advancements in IP filings indicate its strengthening innovation and IP ecosystem



➤ Who delivered the keynote address at the workshop on “Digitalisation of Financial Education” organised by IEPFA, NCAER, and BSE?

- A) Sundararaman Ramamurthy
- B) Navneet Munot
- C) Anita Shah Akella
- D) C.S. Mohapatra
- E) Shashikumar V.

**Answer**

**C) Anita Shah Akella**



## Event and Location:

- **Event:** Workshop on “Digitalisation of Financial Education: A Modern Approach for Investor Protection and Capital Market Development”
- **Location:** BSE International Convention Hall, Mumbai, India





## Mandates and Objectives:

- To promote **investor education** through digital tools, facilitating informed financial decision-making.
- To address the opportunities and challenges that digital technology presents for capital markets and investor protection.



## Key Highlights of the Workshop:

- **Organisers:** The workshop was jointly organised by Investor Education and Protection Fund Authority (IEPFA), National Council of Applied Economic Research (NCAER), and Bombay Stock Exchange (BSE).
- **Inaugural Address:** Delivered by Mr. Sundararaman Ramamurthy, CEO & MD of BSE India Ltd., who emphasized BSE's role in advancing investor education through digital means.



## Key Highlights of the Workshop:

- **Keynote Address:** Presented by Ms. Anita Shah Akella, CEO of IEPFA, focusing on government efforts in investor protection and the role of digital education in modernizing financial literacy.
- **Panel of Experts:** Featured distinguished professionals such as Dr. C. S. Mohapatra (moderator), Mr. Navneet Munot (Chairman of AMFI), and Mr. Shashikumar V. (SEBI Executive Director), who discussed digital financial education, capital markets, and investor protection.



## Important Terms Explained:

- **Investor Education and Protection Fund Authority (IEPFA):** An agency under the Ministry of Corporate Affairs responsible for managing unclaimed investor funds and promoting financial literacy across India.
- **Digital Financial Education:** Using digital platforms to educate investors, helping them make well-informed financial decisions.
- **Capital Market Development:** Expansion and modernization of financial markets, enabling efficient allocation of capital to support economic growth.



## Static GK Information:

- **Investor Education and Protection Fund Authority (IEPFA)**
  - **Founded:** September 7, 2016
  - **Headquarters:** New Delhi, India
  - **CEO:** Anita Shah Akella
- **National Council of Applied Economic Research (NCAER)**
  - **Founded:** 1956
  - **Headquarters:** New Delhi, India
  - **Director-General:** Dr. Poonam Gupta
- **Bombay Stock Exchange (BSE)**
  - **Headquarters:** Mumbai, Maharashtra, India
  - **Founded:** 1875
  - **CEO & MD:** Sundararaman Ramamurthy



# BANKING AND FINANCE



## Tabular Summary:

Key Detail	Description
Event	Workshop on Digitalisation of Financial Education for Investor Protection
Date	November 11, 2024
Organisers	IEPFA, NCAER, and BSE
Location	BSE International Convention Hall, Mumbai
Inaugural Address	Sundararaman Ramamurthy, CEO & MD, BSE
Keynote Speaker	Anita Shah Akella, CEO of IEPFA
Key Themes	Financial literacy, digital education, investor protection, capital market development
Panel Moderator	Dr. C. S. Mohapatra, IEPF Chair Professor at NCAER
Significance	Promoting investor awareness through digital financial education and fostering secure capital markets



➤ **What is the primary objective of the partnership between Tata Power and Noida International Airport (NIA)?**

- A) To increase passenger capacity at NIA
- B) To supply NIA with renewable solar and wind energy
- C) To build additional runways at NIA
- D) To establish international trade routes through NIA
- E) To develop a conventional power plant for NIA

**Answer**

**B) To supply NIA with renewable solar and wind energy**



## Event and Location:

- **Event:** Tata Power and Noida International Airport partnership for renewable energy supply
- **Location:** Noida International Airport (NIA), Uttar Pradesh, India





## Mandates and Objectives:

- To establish a sustainable energy infrastructure at Noida International Airport through solar and wind energy systems provided by Tata Power.
- To support India's aviation sector in moving towards Net Zero Airports by using clean energy sources that reduce reliance on conventional power.



## Key Highlights of the Tata Power and NIA Partnership:

- **Investment:** Tata Power will invest ₹550 crore (~\$66 million) in renewable energy solutions, including solar and wind power.
- **Energy Supply Details:**
  - Tata Power Trading Company Ltd. (TPTCL) will manage a 10.8 MW wind power supply to NIA.
  - Tata Power Renewable Energy Ltd. (TPREL) will develop a 13 MW onsite solar power capacity.
- **Infrastructure Development:** Tata Power will also develop critical dry utilities and smart energy infrastructure to ensure reliable and efficient power supply.
- **Long-term Commitment:** Tata Power will operate and maintain these systems for **25 years**, highlighting a long-term commitment to NIA's clean energy needs.



## Important Terms Explained:

- **Dry Utilities:** Infrastructure that provides essential services such as power, communications, and data networks to support airport operations.
- **Power Purchase Agreement (PPA):** A contract under which an energy provider agrees to supply power to a customer at a set price for a fixed period, ensuring energy reliability.



## Static GK Information:

- **Tata Power**
  - **Headquarters:** Mumbai, Maharashtra, India
  - **CEO & MD:** Dr. Praveer Sinha
  - **Founded:** 1911
- **Noida International Airport (NIA)**
  - **Location:** Jewar, Uttar Pradesh, India
  - **Phase 1 Capacity:** 12 million passengers per year
  - **CEO:** Christoph Schnellmann



# BANKING AND FINANCE



## Tabular Summary:

Key Detail	Description
Event	Partnership between Tata Power and Noida International Airport
Date of Agreement	November 7, 2024
Investment	₹550 crore (~\$66 million) in renewable energy and infrastructure
Renewable Energy Supply	10.8 MW wind power and 13 MW onsite solar capacity
Infrastructure	Development of essential dry utilities and smart energy systems
Long-term Commitment	25-year agreement for operation and maintenance
Significance	Supports Net Zero Airport goals and showcases a sustainable model for India's aviation sector



# AWARDS



➤ **Which veteran filmmaker will receive the Satyajit Ray Lifetime Achievement Award at IFFI 2024?**

- A) Michael Gracey
- B) John Seale
- C) Phillip Noyce
- D) Ashutosh Gowariker
- E) Anthony Chen

**Answer**  
**C) Phillip Noyce**



# AWARDS



## Event and Location:

- **Event:** Awarding of Satyajit Ray Lifetime Achievement Award at the 55<sup>th</sup> International Film Festival of India (IFFI)
- **Location:** IFFI 2024, Goa, India



# AWARDS



## Mandates and Objectives:

- To honour Phillip Noyce with **the Satyajit Ray Lifetime Achievement Award** for his significant contributions to cinema.
- To showcase **Australian cinema** as **Australia** has been chosen as the Country of Focus, highlighting cultural exchange and cooperation in filmmaking.





# AWARDS



## Key Highlights of IFFI 2024:

- **Award Honoree:** Veteran Australian filmmaker Phillip Noyce, known for films like Patriot Games, Clear and Present Danger, and The Bone Collector, will receive the Satyajit Ray Lifetime Achievement Award.
- **Country of Focus:** Australia, with a dedicated package of Australian films, prominent Australian filmmakers, and a showcase by AusFilm highlighting Australian filming locations and co-production opportunities.
- **Festival Highlights:** The Asia premiere of Michael Gracey's Better Man, a film about British pop star Robbie Williams, will open the festival.



# AWARDS



## Key Highlights of IFFI 2024:

- **International Competition:** Features 15 films (12 international, 3 Indian) competing for Best Film Award and other prestigious categories.
- **Masterclasses and Panels:** 25+ sessions featuring industry leaders, including A.R. Rahman, Shabana Azmi, Mani Ratnam, Vidhu Vinod Chopra, and international guests like Phillip Noyce.
- **Festival Direction:** Directed by Shekhar Kapur, marking a new tradition of having industry leaders lead the event.



# AWARDS



## Important Terms Explained:

- **Satyajit Ray Lifetime Achievement Award:** A prestigious award given at IFFI to recognize exceptional contributions to world cinema, named after legendary Indian filmmaker Satyajit Ray.
- **Country of Focus:** A special designation for a country each year at IFFI, allowing it to showcase its cinema and filmmakers prominently.
- **Golden Peacock Award:** The top honor for Best Film in IFFI's International Competition section, accompanied by a cash prize.



# AWARDS



## Static GK Information:

- **International Film Festival of India (IFFI)**
  - **Founded:** 1952
  - **Organized By:** Ministry of Information and Broadcasting, Government of India
  - **Location:** Goa, India



# AWARDS



## Tabular Summary:

Key Detail	Description
Event	55th International Film Festival of India (IFFI)
Date	November 20-28, 2024
Location	Goa, India
Satyajit Ray Lifetime Achievement Award	Phillip Noyce
Country of Focus	Australia
Opening Film	Better Man by Michael Gracey
International Competition Films	15 feature films (12 international, 3 Indian)
Masterclasses and Panels	Led by A.R. Rahman, Shabana Azmi, Mani Ratnam, and others
Significance	Highlights global cinema, promotes Australian cinema, and celebrates film excellence



➤ **What is the primary objective of the Centre of Excellence in Fluid and Thermal Sciences established by ISRO and IIT Madras?**

- A) To improve propulsion systems for rockets
- B) To enhance the fuel efficiency of launch vehicles
- C) To tackle thermal management challenges in spacecraft and launch vehicles
- D) To conduct research on satellite communication
- E) To develop advanced satellite imaging technologies



**Answer**

**C) To tackle thermal management challenges in spacecraft and launch vehicles**



## Event and Location:

- **Event:** Establishment of the Centre of Excellence in Fluid and Thermal Sciences
- **Location:** Indian Institute of Technology (IIT) Madras, India



## Mandates and Objectives:

- To address thermal management challenges in spacecraft and launch vehicles, enhancing the performance, reliability, and longevity of India's space missions.
- To advance fluid and thermal sciences research, supporting the development of efficient thermal management systems that are critical for the extreme temperature variations encountered in space environments.





## Key Highlights of the ISRO-IIT Madras Collaboration:

- **Memorandum of Understanding (MoU):** This partnership, formalized with an MoU, is supported by a funding of Rs 1.84 crore.
- **Thermal Management in Spacecraft:** Proper thermal management directly impacts the reliability of spacecraft, ensuring their systems can withstand extreme space temperatures and remain operational throughout missions.



## Key Highlights of the ISRO-IIT Madras Collaboration:

- **Educational and Research Benefits:** This collaboration offers IIT Madras students and researchers unique opportunities to work on real-world space engineering challenges, fostering a new generation of space technology experts.
- **Strategic Importance:** The center will accelerate innovation in thermal technologies, positioning India as a leader in advanced space engineering and contributing to the success of future space missions.



## Important Terms Explained:

- **Thermal Management in Spacecraft:** Techniques and systems that regulate temperature within spacecraft, essential for maintaining optimal functioning of components despite extreme temperatures in space.
- **Fluid and Thermal Sciences:** A field focused on understanding fluid dynamics and heat transfer, crucial for solving challenges in spacecraft design and other high-performance engineering applications.



## Static GK Information:

- **Indian Space Research Organisation (ISRO)**
  - **Founded:** 1969
  - **Headquarters:** Bengaluru, Karnataka, India
  - **Chairman:** S. Somanath
- **Indian Institute of Technology Madras (IIT Madras)**
  - **Location:** Chennai, Tamil Nadu, India
  - **Established:** 1959
  - **Director:** Prof. V. Kamakoti



# SCIENCE AND TECHNOLOGY



## Tabular Summary:

Key Detail	Description
Event	Establishment of Centre of Excellence in Fluid and Thermal Sciences
Date of MoU	November 2024
Location	IIT Madras, Chennai, India
Primary Objective	Address thermal management challenges in spacecraft and launch vehicles
Funding Amount	Rs 1.84 crore
Benefits	Fosters next-gen space technology experts, advances research in thermal management
Significance	Supports India's space mission reliability and contributes to global space technology leadership



➤ **Which organization developed the P-7 Parachute System, recently handed over to the Directorate General of Quality Assurance (DGQA)?**

- A) Bharat Dynamics Limited
- B) Hindustan Aeronautics Limited
- C) Defence Research and Development Organisation (DRDO)
- D) Gliders India Limited (GIL)
- E) Bharat Electronics Limited



**Answer**

**C) Defence Research and Development Organisation (DRDO)**



## Event and Location:

- **Event:** Handover of Authority Holding Sealed Particulars (AHSP) for P-7 Parachute System
- **Location:** Ceremony held at DRDO Bhawan, New Delhi, India



## Mandates and Objectives:

- To provide the Directorate General of Quality Assurance (DGQA) with the Authority Holding Sealed Particulars (AHSP) for the P-7 Parachute System.
- To enable the Indian Army to utilize the parachute system for rapid deployment of equipment, enhancing operational efficiency in border and conflict areas.





## Key Highlights of the P-7 Parachute System:

- **Development and Manufacture:** The P-7 Parachute System was designed and developed by Aerial Delivery Research and Development Establishment (ADRDE), a DRDO laboratory in Agra. The system is fabricated by Gliders India Limited (Ordnance Parachute Factory), Kanpur.
- **Functionality:** The P-7 system allows for safe airdrop of payloads up to 9.5 tons from an IL-76 Aircraft at an altitude of up to 4 km.
- **Usage by the Army:** The Indian Army can utilize this parachute system to air-drop Light Field Guns and Jeeps at strategic locations, improving rapid deployment capabilities.
- **Supply Order:** The Army has ordered 146 units of the P-7 Heavy Drop Parachute System from GIL (OPF), Kanpur.



## Important Terms Explained:

- **Authority Holding Sealed Particulars (AHSP):** A documented set of specifications and standards handed over to a custodian authority to maintain product integrity during manufacturing and operation.
- **Aerial Delivery Research and Development Establishment (ADRDE):** A DRDO lab specializing in developing aerial delivery systems like parachutes and airdrop technologies.
- **Directorate General of Quality Assurance (DGQA):** A directorate responsible for quality assurance of military equipment and ensuring that products meet required standards.



## Static GK Information:

- **Defence Research and Development Organisation (DRDO)**
  - **Abbreviation:** Defence Research and Development Organisation
  - **Founded:** 1958
  - **Headquarters:** New Delhi, India
  - **Chairman:** Dr. Samir V Kamat
- **Directorate General of Quality Assurance (DGQA)**
  - **Headquarters:** New Delhi, India
  - **Function:** Quality assurance and testing for defence systems



# DEFENCE



## Tabular Summary:

Key Detail	Description
Event	Handover of AHSP for P-7 Parachute System to DGQA
Date	November 11, 2024
Developed By	Aerial Delivery Research and Development Establishment (ADRDE), DRDO
Fabricated By	Gliders India Limited (Ordnance Parachute Factory), Kanpur
Capacity	Can safely drop payloads up to 9.5 tons
Aircraft Compatibility	Compatible with IL-76 Aircraft, up to 4 km altitude
End User	Indian Army
Order Placed	146 P-7 Heavy Drop Parachute Systems
Significance	Enhances Army's rapid deployment capability for equipment in conflict areas



➤ **Where did DRDO conduct the maiden flight-test of the Long Range Land Attack Cruise Missile (LRLACM)?**

- A) Sriharikota, Andhra Pradesh
- B) Pokhran Range, Rajasthan
- C) Chandipur, Odisha
- D) Visakhapatnam, Andhra Pradesh
- E) Andaman and Nicobar Islands

**Answer**

**C) Chandipur, Odisha**



## Event and Location:

- **Event:** Maiden flight-test of Long Range Land Attack Cruise Missile (LRLACM)
- **Location:** Integrated Test Range (ITR), Chandipur, off the coast of Odisha



## Mandates and Objectives:

- To validate the performance and reliability of the LRLACM, including sub-systems, way point navigation, and its ability to execute various manoeuvres at different altitudes and speeds.
- To further indigenous cruise missile development efforts, with the goal of enhancing India's long-range strike capabilities.



## Key Highlights of LRLACM Flight-Test:

- **Development:** The LRLACM was designed by the Aeronautical Development Establishment (ADE), Bengaluru, in partnership with other DRDO laboratories and Indian industries.
- **Development Partners:** Bharat Dynamics Limited (BDL), Hyderabad, and Bharat Electronics Limited (BEL), Bengaluru, contributed to the missile's development and integration.
- **Testing:** The test was conducted using a mobile articulated launcher with monitoring by multiple sensors including Radar, Electro Optical Tracking System, and telemetry systems to ensure full coverage of the flight path.





## Key Highlights of LRLACM Flight-Test:

- **Capabilities:** Demonstrated navigation accuracy, altitude adjustments, and advanced avionics for reliable long-range land attack performance.
- **Project Status:** Approved by the Defence Acquisition Council as a Mission Mode Project with the Acceptance of Necessity for ground and naval launch configurations.



## Important Terms Explained:

- **Long Range Land Attack Cruise Missile (LRLACM):** A long-range missile designed for precision attacks on land targets from a significant distance.
- **Integrated Test Range (ITR):** A DRDO test facility located in Chandipur, Odisha, used for testing missiles and other defence systems.
- **Way Point Navigation:** A navigation method enabling the missile to change direction at set waypoints, allowing flexibility in flight path and maneuvering.



## Static GK Information:

- **Defence Research and Development Organisation (DRDO)**
  - **Founded:** 1958
  - **Headquarters:** New Delhi, India
  - **Chairman:** Dr. Samir V Kamat
- **Bharat Dynamics Limited (BDL)**
  - **Headquarters:** Hyderabad, Telangana, India
  - **CEO:** Commodore Siddharth Mishra (Retd.)
- **Bharat Electronics Limited (BEL)**
  - **Headquarters:** Bengaluru, Karnataka, India
  - **Chairman & MD:** Anandi Ramalingam



# DEFENCE



## Tabular Summary:

Key Detail	Description
Event	Maiden flight-test of Long Range Land Attack Cruise Missile (LRLACM)
Date	November 12, 2024
Location	Integrated Test Range (ITR), Chandipur, Odisha
Developed By	Aeronautical Development Establishment (ADE), Bengaluru (DRDO)
Development Partners	Bharat Dynamics Limited (BDL) and Bharat Electronics Limited (BEL)
Launch Vehicle	Mobile articulated launcher
Capabilities Demonstrated	Way point navigation, altitude adjustments, advanced avionics
Project Approval	Defence Acquisition Council; Mission Mode Project
Significance	Advances indigenous cruise missile development and strengthens India's long-range attack capabilities



➤ **Where was the C-295 Full Motion Simulator (FMS) for the Indian Air Force inaugurated?**

- A) Air Force Station Chandigarh
- B) Air Force Station Agra
- C) Air Force Station Bengaluru
- D) Air Force Station Delhi
- E) Air Force Station Mumbai

**Answer**

**B) Air Force Station Agra**



# DEFENCE



## Event and Location:

- **Event:** Inauguration of C-295 Full Motion Simulator (FMS) for pilot training
- **Location:** Air Force Station Agra, India



## Mandates and Objectives:

- To provide realistic training environments for pilots, covering a range of missions like tactical airlift, para-dropping, medical evacuation, and disaster relief.
- To ensure flight safety by preparing pilots for high-risk scenarios and emergencies that require rapid decision-making.
- To support Atmanirbhar Bharat by fostering private sector production in India's aerospace industry through the induction of C-295 aircraft.



## Key Highlights of C-295 Full Motion Simulator:

- **Capabilities:** The FMS enables near-realistic training for pilots, covering scenarios like tactical airlift, para-dropping, medical evacuation, and disaster relief operations.
- **Operational Benefits:** Reduces the need for live aircraft training, preserving flying hours and reducing operational costs.
- **Advanced Safety Training:** Allows pilots to practice time-critical emergency responses, enhancing safety in actual military operations.
- **Aerospace Industry Impact:** The induction of the C-295 aircraft under the Atmanirbhar Bharat initiative supports local production of transport aircraft in India's private sector, strengthening the domestic aerospace ecosystem.





## Important Terms Explained:

- **C-295 Full Motion Simulator (FMS):** A high-tech training tool replicating the C-295 aircraft environment, used to train pilots in simulated missions and emergency situations.
- **Atmanirbhar Bharat:** A government initiative aimed at making India self-reliant by promoting local production across various industries, including aerospace and defense.
- **AOC-in-C CAC:** Air Officer Commanding-in-Chief, Central Air Command, a senior Indian Air Force officer responsible for regional operational command.



## Static GK Information:

- **Indian Air Force (IAF)**
  - **Founded:** October 8, 1932
  - **Headquarters:** New Delhi, India
  - **Chief of the Air Staff:** Air Chief Marshal Vivek Ram Chaudhari



# DEFENCE



## Tabular Summary:

Key Detail	Description
Event	Inauguration of C-295 Full Motion Simulator (FMS)
Date	November 11, 2024
Location	Air Force Station Agra, India
Inaugurated By	Air Marshal Ashutosh Dixit, AOC-in-C CAC
Purpose	Pilot training for tactical missions and emergency scenarios
Simulator Capabilities	Tactical airlift, para-dropping, medical evacuation, disaster relief, high-risk emergency training
Significance	Enhances pilot readiness and supports Atmanirbhar Bharat initiative in aerospace sector



➤ Which Indian organization signed an MoU with Russia's Rosoboronexport to facilitate cooperation on the Pantsir air defence missile-gun system?

- A) Hindustan Aeronautics Limited (HAL)
- B) Bharat Dynamics Limited (BDL)
- C) Bharat Electronics Limited (BEL)
- D) Defence Research and Development Organisation (DRDO)
- E) Larsen & Toubro (L&T)



**Answer**

**B) Bharat Dynamics Limited (BDL)**



## Event and Location:

- **Event:** Maiden flight-test of Long Range Land Attack Cruise Missile (LRLACM)
- **Location:** Integrated Test Range (ITR), Chandipur, off the coast of Odisha



## Mandates and Objectives:

- To enhance India's air defence capabilities by facilitating cooperation on the Pantsir air defence system, which is designed to protect military installations from a variety of aerial threats.
- To explore avenues for technology transfer, manufacturing, and joint development under the Make in India initiative, aiming for self-reliance in defence production.



## Key Highlights of the Pantsir Air Defence System and MoU:

- **Partnership Details:** Bharat Dynamics Limited (BDL) signed an MoU with Russia's Rosoboronexport (ROE) to bring advanced variants of the Pantsir air defence missile-gun system to India.
- **Capabilities of Pantsir System:** The Pantsir system combines surface-to-air missiles with 30mm automatic cannons, making it a multi-layered defence system. It is equipped with radar and electro-optical tracking systems to detect and neutralize targets at distances up to 36 km and altitudes up to 15 km.



## Key Highlights of the Pantsir Air Defence System and MoU:

- **Strategic Importance:** This collaboration will enable India to boost its air defence preparedness, particularly for protecting critical infrastructure, while strengthening its self-reliance in defence production.
- **Regional Defence Needs:** The system's mobility and adaptability make it suitable for diverse terrains, providing a rapid response to aerial threats, including aircraft, drones, and precision-guided munitions.





## Important Terms Explained:

- **Pantsir Air Defence System:** A mobile air defence system with integrated missile and gun capabilities, designed to intercept aerial threats across short to medium ranges.
- **Rosoboronexport (ROE):** Russia's state-owned arms exporter, responsible for foreign military cooperation and technology transfer.
- **Make in India Initiative:** A government program focused on promoting domestic manufacturing and reducing dependence on foreign imports, particularly in strategic sectors like defence.



## Static GK Information:

- **Bharat Dynamics Limited (BDL)**
  - **Headquarters:** Hyderabad, Telangana, India
  - **MD & CEO:** Commodore Siddharth Mishra (Retd.)
- **Rosoboronexport (ROE)**
  - **Headquarters:** Moscow, Russia
  - **Founded:** 2000
  - **Director General:** Alexander Mikheev



# DEFENCE



## Tabular Summary:

Key Detail	Description
Event	MoU signing for Pantsir air defence system cooperation
Date	November 11, 2024
Location	5th India-Russia Inter-Governmental Commission (IRIGC) Subgroup meeting in Goa
Indian Partner	Bharat Dynamics Limited (BDL)
Russian Partner	Rosoboronexport (ROE)
Capabilities of Pantsir	36 km range, 15 km altitude, integrates missiles and 30mm guns
Objective of MoU	Technology transfer, manufacturing, and boosting India's air defence under Make in India
Strategic Importance	Enhances air defence against aerial threats, supporting regional security readiness



- Which of the following statements about the Integrated Manufacturing Cluster (IMC) in Gaya, Bihar, is NOT correct?
- A) The IMC Gaya is being developed under the Amritsar-Kolkata Industrial Corridor (AKIC).
  - B) The project is estimated to create approximately 1,09,185 jobs.
  - C) IMC Gaya is located 150 km away from Gaya International Airport.
  - D) The IMC will have infrastructure like water treatment, effluent treatment, and solid waste management.
  - E) Three greenfield road projects are proposed to improve connectivity for IMC Gaya.



**Answer**

**C) IMC Gaya is located 150 km away from Gaya International Airport.**



## Event and Location:

- **Event:** Agreement Signing for Integrated Manufacturing Cluster (IMC) Development in Gaya
- **Location:** Gaya, Bihar, India



## Mandates and Objectives:

- To boost industrial growth in Bihar, aligning with India's **'Make in India' initiative**.
- To establish IMC Gaya as a vital industrial hub under the **Amritsar-Kolkata Industrial Corridor (AKIC)**.
- To attract global investments and promote local manufacturing, fostering self-reliance.



## Key Highlights of IMC Gaya Project:

- **Location & Size:** Located 39 km from Gaya International Airport and spread over 1,670 acres.
- **Investment and Employment Potential:** Projected investment potential of INR 16,524 crore with a project cost of INR 1,339 crore, and anticipated to create around 1,09,185 jobs.
- **Sectoral Focus:** The cluster will cater to multiple industries, including building materials, agri-food processing, leather goods, garments, furniture, engineering & fabrications, and medical equipment.



## Key Highlights of IMC Gaya Project:

- **Connectivity:** Well-connected by NH-19 (10 km away) and NH-22 (2 km away), Gaya Junction (40 km), and New Paharpur Railway Station (45 km). Additionally, nearby access to Gaya International Airport (30 km) and major ports enhances logistics.
- **Infrastructure and Facilities:** Includes Plug n Play infrastructure with water and sewage treatment, power substations, internal road networks, and a skill development center.
- **Environmental Compliance:** Facilities like Common Effluent Treatment Plant, Water Treatment Plant, Solid Waste Management, and green landscaping.





## Important Terms Explained:

- **Integrated Manufacturing Cluster (IMC):** A large industrial area with dedicated infrastructure to support manufacturing across multiple sectors.
- **Greenfield Projects:** New projects built from scratch on undeveloped land to improve accessibility or utility infrastructure.
- **Amritsar-Kolkata Industrial Corridor (AKIC):** An industrial corridor project aimed at enhancing industrial and manufacturing growth along the Amritsar to Kolkata stretch.



## Static GK Information:

- **National Industrial Corridor Development Corporation (NICDC)**
  - **Headquarters:** New Delhi, India
  - **Founded:** 2017
  - **CEO & MD:** Rajat Kumar Saini
- **Bihar Industrial Area Development Authority (BIADA)**
  - **Headquarters:** Patna, Bihar
  - **Managing Director:** Kundan Kumar



# NATIONAL AFFAIRS



## Tabular Summary:

Key Detail	Description
Event	Signing of agreements for Integrated Manufacturing Cluster (IMC) in Gaya
Location	Gaya, Bihar
Under	Amritsar-Kolkata Industrial Corridor (AKIC)
Investment Potential	INR 16,524 crore
Employment Generation	Approximately 1,09,185 jobs
Project Infrastructure	Plug n Play facilities, effluent & water treatment, waste management, landscaping
Key Connectivity	NH-19, NH-22, Gaya International Airport (30 km), Gaya Junction (40 km), New Paharpur Station
Significance	Boost to local manufacturing, enhancing Make in India and self-reliant India goals



➤ **Who was the Chief Guest at the Curtain Raiser of the India International Science Festival (IISF) 2024 organized by CSIR-NIScPR?**

- A) Prof. Ranjana Aggarwal
- B) Prof. A.C. Pandey
- C) Dr. Manish Mohan Gore
- D) Dr. Meher Wan
- E) Dr. K. VijayRaghavan

**Answer**

**B) Prof. A.C. Pandey**



# NATIONAL AFFAIRS



## Event and Location:

- **Event:** Curtain Raiser of India International Science Festival (IISF) 2024
- **Location:** Vivekanand Hall, Pusa Campus, New Delhi, India



## Mandates and Objectives:

- To launch the 10<sup>th</sup> edition of IISF, aimed at promoting STEM (Science, Technology, Engineering, and Mathematics) education, fostering innovation, and showcasing India's scientific achievements.
- To celebrate scientific temper and stimulate inquiry and curiosity among students and the public, as encouraged by Article 51A(h) of the Indian Constitution.



## Key Highlights of the Curtain Raiser Event:

- **Organizers:** CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR).
- **Welcome Address:** Delivered by Prof. Ranjana Aggarwal, Director, CSIR-NIScPR, who introduced the IISF as a festival of science, noting that it aims to spread scientific temper across India.
- **Chief Guest Address:** Prof. A.C. Pandey, Director of UGC-Inter University Accelerator Centre, emphasized the role of science and technology in nation-building and referenced bio-inspiration and AI in modern advancements.



## Key Highlights of the Curtain Raiser Event:

- **IISF Objectives and Themes:** The festival includes innovative exhibits like a moon replica and a variety of themes designed to simplify complex concepts and make learning engaging and enjoyable for students.
- **Interactive Session:** Attended by students from Ahlcon International School, Delhi, and the Academy of Scientific and Innovative Research (AcSIR), featuring a dialogue session with CSIR-NIScPR scientists, fostering discussions on science and innovation.





## Important Terms Explained:

- **India International Science Festival (IISF):** An annual science festival that celebrates scientific achievements, encourages STEM education, and aims to popularize science across India.
- **CSIR-NIScPR:** An institute under the Council of Scientific & Industrial Research focused on science communication and policy research.
- **Article 51A(h):** A directive in the Indian Constitution encouraging the development of a scientific temper, humanism, and a spirit of inquiry.



## Static GK Information:

- **CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR)**
  - **Headquarters:** New Delhi, India
  - **Director:** Prof. Ranjana Aggarwal



# NATIONAL AFFAIRS



## Tabular Summary:

Key Detail	Description
Event	Curtain Raiser of India International Science Festival (IISF) 2024
Date	November 11, 2024
Location	Vivekanand Hall, Pusa Campus, New Delhi
Organizers	CSIR-NIScPR
Chief Guest	Prof. A.C. Pandey, Director of UGC-Inter University Accelerator Centre
Objectives	Promote STEM education, encourage innovation, and celebrate scientific achievements
Audience	Students from Ahlcon International School, AcSIR, and CSIR-NIScPR scientists
Significance	Encourages scientific temper and simplifies scientific concepts for public understanding



➤ How many research projects have been approved under the National Technical Textiles Mission as of the 10<sup>th</sup> Mission Steering Group meeting?

- A) 12
- B) 168
- C) 509
- D) 169
- E) 50

**Answer**  
**B) 168**



## Event and Location:

- **Event:** Approval of 12 research projects under the National Technical Textiles Mission (NTTM)
- **Location:** Ministry of Textiles, New Delhi



## Mandates and Objectives:

- To advance research and development in technical textiles across sectors such as geotextiles, sustainable textiles, smart textiles, and composites.
- To develop local industry capabilities in high-performance fibres and foster innovation in technical textiles through R&D.



## Key Highlights of the National Technical Textiles Mission:

- **Newly Approved Projects:** The 10th Mission Steering Group, chaired by the Union Minister of Textiles, approved 12 new research projects worth INR 13.3 crore.
- **Total Projects Under NTTM:** With these additions, the Mission has approved a total of 168 projects valued at INR 509 crore.
- **Focus Areas:** Research focuses on geotextiles, composites, and sustainable textiles, with projects initiated by top institutions like IITs, NITs, and CRRI.
- **Industry Participation:** The Union Minister, Shri Giriraj Singh, urged industries to engage actively in R&D to benefit from the Intellectual Property Rights (IPR) guidelines released under the Mission.



## Important Terms Explained:

- **National Technical Textiles Mission (NTTM):** A scheme under the Ministry of Textiles to enhance the R&D and manufacturing capacities of technical textiles in India.
- **Technical Textiles:** Textiles designed for specific functional uses, such as geotextiles for construction, composites for enhanced durability, and sustainable textiles for environmental impact.
- **Intellectual Property Rights (IPR) Guidelines:** Policies designed to support ownership and protection of innovations in technical textiles, incentivizing industry involvement.





## Static GK Information:

- **Ministry of Textiles, Government of India**
  - **Union Minister:** Shri Piyush Goyal
  - **Key Initiative:** National Technical Textiles Mission



# NATIONAL AFFAIRS



## Tabular Summary:

Key Detail	Description
Event	Approval of 12 new research projects under the National Technical Textiles Mission
Date	November 12, 2024
Total Approved Projects	168
Project Value	Newly Approved Projects: INR 13.3 crore; Total Projects: INR 509 crore
Focus Areas	Geotextiles, sustainable textiles, smart textiles, composites
Initiating Institutions	IITs, NITs, Central Road Research Institute (CRRI)
Significance	Enhances R&D in technical textiles and promotes industry engagement in high-performance fibres



- **What is the purpose of the ASSET platform launched by NITI Aayog in collaboration with the Ministry of Power and the Ministry of New and Renewable Energy?**
- A) To track fossil fuel usage across states
  - B) To support states in accelerating their green transition
  - C) To promote international energy partnerships
  - D) To standardize energy pricing across India
  - E) To oversee foreign investments in energy sectors



**Answer**

**B) To support states in accelerating their green transition**



## Event and Location:

- **Event:** Symposium on "Green Transition in States" and launch of the ASSET platform
- **Location:** Vigyan Bhawan, New Delhi



## Mandates and Objectives:

- To discuss and support state-level green transitions as part of India's national goals for sustainable growth and net-zero emissions by 2070.
- To launch the ASSET platform (Accelerating Sustainable Solutions for Energy Transition), which aids states in developing energy transition blueprints, project pipelines, and the adoption of emerging green technologies.



## Key Highlights of the Symposium and ASSET Platform:

- **ASSET Platform Purpose:** Developed by NITI Aayog with the Ministry of Power and Ministry of New and Renewable Energy to help states create actionable green transition plans, showcase best practices, and focus on critical areas such as battery storage, Green Hydrogen, e-mobility, and offshore wind.
- **Participants:** Senior government officials, including Suman Bery (Vice Chairperson, NITI Aayog) and B.V.R. Subrahmanyam (CEO, NITI Aayog), alongside central and state representatives.



## Key Highlights of the Symposium and ASSET Platform:

- **Sessions and Discussions:** Two sessions on best practices featuring insights from states, private firms, and think tanks.
- **National Goals:** Aligns with India's vision of Viksit Bharat by 2047 and Net-zero GHG emissions by 2070, which require sustainable growth and state cooperation.



## Important Terms Explained:

- **ASSET Platform:** A platform for Accelerating Sustainable Solutions for Energy Transition, created to support states in developing viable energy transition projects and implementing green technology.
- **Net-zero GHG Emissions by 2070:** India's target to balance greenhouse gas emissions with efforts to reduce or offset emissions by 2070.
- **Viksit Bharat by 2047:** A national vision for a fully developed and sustainable India by the centennial of its independence.





## Static GK Information:

- **NITI Aayog**
  - **Abbreviation:** National Institution for Transforming India
  - **Founded:** 2015
  - **Headquarters:** New Delhi, India
  - **Vice Chairperson:** Suman Bery
  - **CEO:** B.V.R. Subrahmanyam



# NATIONAL AFFAIRS



## Tabular Summary:

Key Detail	Description
Event	Symposium on "Green Transition in States" and ASSET platform launch
Date	November 11, 2024
Location	Vigyan Bhawan, New Delhi
Organizers	NITI Aayog in collaboration with the Ministry of Power and MNRE
Purpose of ASSET Platform	Supports states in green transition plans, project pipelines, and adoption of green technologies
Key Participants	Suman Bery, B.V.R. Subrahmanyam, Pankaj Agarwal, Leena Nandan, RP Gupta, and others
Significance	Drives India's sustainable growth through cooperative federalism and state-level green transitions



➤ **What is the purpose of the Mine Opening Permission module launched by the Ministry of Coal?**

- A) To monitor coal production rates
- B) To simplify mine closure procedures
- C) To expedite the approval process for opening coal mines
- D) To regulate coal exports
- E) To ensure environmental compliance in coal mining

**Answer**

**C) To expedite the approval process for opening coal mines**



## Event and Location:

- **Event:** Launch of Mine Opening Permission module on the Single Window Clearance System (SWCS)
- **Location:** Ministry of Coal, India



## Mandates and Objectives:

- To streamline the approval process for opening coal mines through a digital portal, reducing delays and simplifying procedures.
- To improve operational efficiency and boost domestic coal production by offering a centralized system for processing mine opening permissions.



## Key Highlights of the Mine Opening Permission Module:

- **Portal Integration:** The module is integrated within the Single Window Clearance System (SWCS), making it easier for companies to obtain mine opening permissions.
- **Launch by Coal Ministry:** Initiated by the Ministry of Coal, with Coal Secretary Vikram leading the announcement, this module aims to fast-track clearances.
- **Benefits:** By reducing procedural delays, this module contributes to the government's efforts to increase coal availability and support the energy sector's needs.



## Important Terms Explained:

- **Single Window Clearance System (SWCS):** A centralized online platform for handling multiple government approvals, making it easier for industries to obtain necessary permits and licenses.
- **Mine Opening Permission:** Official clearance required to commence mining operations, ensuring compliance with regulatory standards.



## Static GK Information:

- **Ministry of Coal**
  - **Founded:** 1973
  - **Headquarters:** New Delhi, India
  - **Union Minister:** Pralhad Joshi
  - **Coal Secretary:** Vikram





# NATIONAL AFFAIRS



## Tabular Summary:

Key Detail	Description
Event	Launch of Mine Opening Permission module
Date	November 12, 2024
Platform	Single Window Clearance System (SWCS)
Objective	Expedite approval process for opening coal mines
Launched By	Ministry of Coal
Key Official	Coal Secretary Vikram
Significance	Enhances operational efficiency, supports domestic coal production



# QUICK RECALL



- **World Pneumonia Day 2024 theme: "Every Breath Counts: Stop Pneumonia in Its Track."**
- **Renowned mridangam maestro Varadarao Kamalakara Rao passes away at 88 in Rajahmundry.**
- **India leads patent growth in WIPO's 2024 IP Report with a 15.7% increase.**
- **IEPFA, NCAER, and BSE held workshop on digital financial literacy for investor protection.**
- **Tata Power partners with NIA to provide renewable energy and build smart energy infrastructure for 25 years.**
- **Phillip Noyce to receive Satyajit Ray Lifetime Achievement Award at IFFI 2024 in Goa.**
- **ISRO, IIT Madras establish center to address thermal management for space missions, fostering innovation in thermal sciences.**
- **DRDO's ADRDE hands over P-7 Parachute AHSP to DGQA for Indian Army use.**



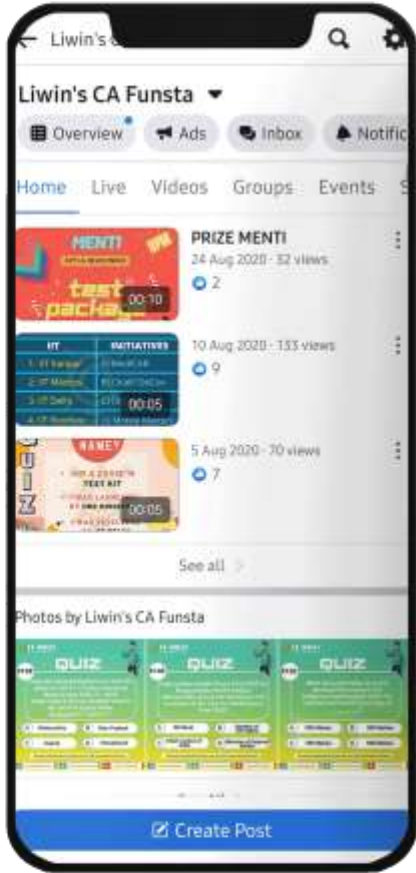
# QUICK RECALL



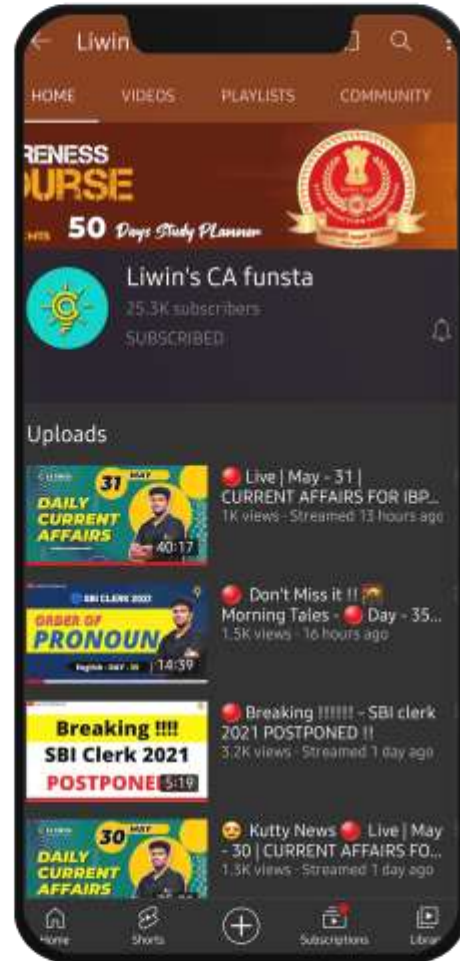
- DRDO tests Long Range Land Attack Cruise Missile (LRLACM) at Chandipur, Odisha.
- IAF inaugurates C-295 Full Motion Simulator for advanced pilot training at Air Force Station Agra.
- BDL signs MoU with Russia's ROE to boost India's air defence with Pantsir system integration.
- IMC Gaya to drive industrial growth with INR 16,524 crore investment potential.
- CSIR-NIScPR hosts IISF 2024 Curtain Raiser, promoting scientific curiosity and innovation among students.
- Ministry of Textiles approves 12 projects under National Technical Textiles Mission, totaling 168 projects.
- NITI Aayog launches ASSET to support state-level green transitions at "Green Transition in States" symposium.
- Coal Ministry launches module on SWCS to fast-track mine opening permissions.



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