

# Daily Defence Current Affairs

## 24 May 2025

### Project Kusha Air Defence System

- India's DRDO has embarked on one of its most ambitious air defence initiatives through **Project Kusha**, an indigenous long-range surface-to-air missile system designed to rival the capabilities of foreign systems like the **Russian S-400**.
- The project, spearheaded by DRDO in partnership with **BEL** aims to develop a transportable, **long-range surface-to-air missile system** featuring at least three types of interceptors with ranges spanning **150 km to 350 km**.
- Project Kusha positions India to achieve operational deployment by 2028-2029 while potentially securing orders worth **₹40,000 crore**.
- The technological foundation of Project Kusha incorporates advanced long-range surveillance and fire control radars capable of simultaneous detection and tracking of multiple targets across vast operational areas.



## Comparative Analysis: DRDO's Project Kusha Vs Existing Air Defence Systems

Parameter	Project Kusha	S-400 (Russia)	Barak 8 (India/Israel)	Iron Dome (Israel)
Type	Long-range, multi-layered SAM	Long-range SAM	Medium/Long-range SAM	Short-range air defence
Developer	DRDO (India)	Almaz-Antey (Russia)	DRDO/IAI (India/Israel)	Rafael/IAI (Israel)
Deployment (India)	Planned: 2028-29	Operational	Operational	Not in Indian service
Max Interceptor Range	Up to 350 km (M1: 150 km, M2: 200/250 km, M3: 350 km)	Up to 400 km	70-100 km (Barak 8 ER: up to 150 km)	70 km (typically 4-70 km)
Target Types	Aircraft, stealth fighters, drones, cruise & ballistic missiles, PGMs, AWACS	Aircraft, cruise & ballistic missiles, UAVs	Aircraft, helicopters, UAVs, anti-ship missiles	Rockets, artillery, mortars, UAVs
Guidance System	RF datalink, advanced radars	Active radar, command guidance	Active radar homing	Radar and electro-optical tracking

## ISRO Declares 2025 As Gaganyaan Year

- The ISRO has officially declared 2025 as the "**Gaganyaan Year**," marking a pivotal phase in India's ambitious human spaceflight program.
- The Gaganyaan Programme, approved in December 2018, is designed to send Indian astronauts to Low Earth Orbit and to develop the essential technologies for sustained human space exploration by India.
- As of May 2025, **ISRO chief V Narayanan** announced that over 7,200 tests have been successfully completed, with approximately 3,000 tests still pending. The organisation is working around the clock to ensure all critical systems and subsystems meet the stringent requirements for human spaceflight.
- A significant milestone highlighted by the ISRO chief is the successful completion of the **SpaDeX mission**, a cost-effective technology demonstrator that used two small spacecraft launched by **PSLV** to showcase in-space docking capabilities.

- 2025 is set to be a year of intense activity for ISRO, with multiple important missions planned. These include the launch of a **NASA-ISRO synthetic aperture radar satellite** using an Indian launch vehicle, as well as commercial and communication satellite missions.



## Rajnath Singh Releases CDS Book On Indian Military Evolution

- Defence Minister Rajnath Singh released the book “**Ready, Relevant and Resurgent: A Blueprint for the Transformation of India’s Military**,” authored by Chief of Defence Staff (CDS) General Anil Chauhan.
- The book provides a comprehensive analysis of the ongoing transformation within the Indian military, emphasising three core pillars: **jointness, integration, and self-reliance**.
- General Chauhan articulates a vision for building a future-ready force capable of securing India’s interests amid the increasingly complex and uncertain geopolitical environment of the 21st century.
- The book details actionable steps for reform, including the creation of **theatre commands** tailored to specific threats—such as a northern command focused on China, a western command oriented toward Pakistan, and a maritime command for the Indian Ocean region.



## Adani Group To Invest Rs 1 Lakh Crore In Northeast Over 10 Years

- The **Adani Group** has announced a significant additional investment of **Rs 50,000 crore** - taking the total to **Rs 1 Lakh crore** - across the Northeast over the next 10 years, spanning across many sectors including **green energy, roads and highways, and digital infrastructure.**
- Highlighting PM Narendra Modi's role in fostering growth in the Northeast, Mr Adani said, "Hon'ble Prime Minister, when you said '**Act East, Act Fast, Act First**', you gave the Northeast its wake-up call.
- Highlighting PM Modi's role in fostering investment-driven economic growth, Mr Adani had drawn parallels between Assam's economic aspirations and the success of Gujarat's investment ecosystem. He also credited PM Modi's vision, which started with the Vibrant Gujarat Global Summit in 2003, as the catalyst that inspired states across India to adopt similar strategies.





## **IAF Chief Attends Valedictory Ceremony Of Flight Test Course Graduates**

- Chief of the 47th Air Staff, Air Chief Marshal AP Singh was the chief guest at the ceremonial Valedictory function of Flight Test Course of the IAF Test Pilot School, which concluded function, "Suranjan Das Dinner", at Aircraft and Systems Testing Establishment (ASTE), Bengaluru on Friday.
- IAF chief awarded the graduating officers with certificates, along with trophies to the meritorious officers, recognizing their exceptional performance during this demanding and specialized course, according to a statement from the Ministry of Defence.
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## REVIEW QUESTIONS

**1. How much total investment has the Adani Group planned for the Northeast region over the next 10 years?**

- A. ₹25,000 crore
- B. ₹50,000 crore
- C. ₹75,000 crore
- D. ₹1 lakh crore

**ANSWER: D**

**2. What is the primary goal of DRDO's Project Kusha?**

- A. Developing a new battle tank
- B. Launching a communication satellite
- C. Creating a long-range surface-to-air missile system
- D. Constructing military bases in border areas

**ANSWER: C**

**3. Which organization is partnering with DRDO in Project Kusha?**

- A. Hindustan Aeronautics Limited (HAL)
- B. Indian Space Research Organisation (ISRO)
- C. Bharat Electronics Limited (BEL)
- D. Larsen & Toubro (L&T)

**ANSWER: C**

**4. What has ISRO declared the year 2025 as?**

- A. Chandrayaan Year
- B. Mangalyaan Year
- C. ISRO Innovation Year
- D. Gaganyaan Year

**ANSWER: D**

**5. Who is the author of the book "Ready, Relevant and Resurgent: A Blueprint for the Transformation of India's Military"?**

- A. A. Rajnath Singh
- B. General Bipin Rawat
- C. General Anil Chauhan
- D. Dr. G. Satheesh Reddy

**ANSWER: C**

**5. प्रहार से सुरक्षा Is The Motto Of**

- A. Garud Commando Force
- B. MARCOS
- C. PARA SF
- D. None of the above

**ANSWER: A**

**6. Indian Army Flag Consist Colors of \_\_\_\_ Colors.**

- A. Gold, Red And Black
- B. Gold, Red And Blue
- C. Gold, Rose Black And Black
- D. Green, Red And Black

**ANSWER: A**

**7. Which Country Has the Maximum Nuclear Warheads?**

- A.** UK
- B.** Russia
- C.** USA
- D.** China

**ANSWER: B**

**8. “Naam Namak Nishaan” Is The War Cry Of**

- A. THE GRENADIERS
- B. RR
- C. Sikh Regiment
- D. Gorkha Regiment

**ANSWER: A**

**9. IPCC Stands For**

- A. Intergovernmental Panel on Climate Challenge
- B. Intergovernmental Panel on Cloud Change
- C. Intergovernmental Pan on Climate Change
- D. Intergovernmental Panel on Climate Change

**ANSWER: D**

**10. Operational Range of Rudram-1 Is**

- A. 150 km
- B. 250 km
- C. 350 km
- D. 450 km

**ANSWER: B**

**11. Where Is The Hq Of The Eastern Command of The Indian Army?**

- A. Kochi
- B. Vishakhapatnam
- C. Pune
- D. Kolkata

**ANSWER: D**

**12. Joint Exercises B/w The India And Sri Lanka Is Called:**

- A. Yama
- B. VINBAX
- C. Indra
- D. Yudha Abhyas

**ANSWER: B**



**13. Luanda Is The Capital Of**

- A. Andorra
- B. Algiers
- C. Angola
- D. Maldives

**ANSWER: C**

**14. "Sea of Tranquility" Book Is Written By**

- A. Emily St. John Mandel
- B. Barak Obama
- C. Hew Strachan
- D. S. Jenifer

**ANSWER: A**

**15. Ex KAZIND Conducted B/W India And**

- A. France
- B. China
- C. Kazakhstan
- D. Kyrgyzstan

**ANSWER: C**

**16. Group Captain Rank Of IAF Is Equivalent to Which Rank of Indian Navy?**

- A. Colonel
- B. Captain
- C. Commander
- D. Major

**ANSWER: B**

**17. What Is The Ranking Of The IAF In The World Directory of Modern Military Aircraft (WDMMA)?**

- A. 1<sup>st</sup>
- B. 2<sup>nd</sup>
- C. 3<sup>rd</sup>
- D. 4<sup>th</sup>

**ANSWER: C**

**18. "Balidanam Vir Lakshanam" Is The Motto Of**

- A. JKLI
- B. THE MAHAR REGIMENT

- C. THE BIHAR REGIMENT
- D. None of the above

**ANSWER: A**

**19. F 18 Super Hornet Fighter Aircraft Manufactured By**

- A. Boeing
- B. Lockheed Martin
- C. Airbus
- D. HAL

**ANSWER: A**

**20. Where are the headquarters of the Organisation of Islamic Cooperation (OIC) located?**

- A. Riyadh, Saudi Arabia
- B. Dubai, UAE
- C. Jeddah, Saudi Arabia
- D. Islamabad, Pakistan

**ANSWER: C**

