# Daily Defence Current Affairs 13 March 2025

# **Tejas Combat Jet Test Fires Astra Missile**

- India's indigenously-built Tejas light combat aircraft on Wednesday successfully test fired homegrown air-to-air missile Astra. The test firing of the missile was carried out off the coast of Chandipur in Odisha.
- "The test-firing successfully demonstrated the direct hit of the missile on flying target," it said. "All the subsystems performed accurately meeting all mission parameters and objectives," the ministry said.
- ASTRA missile is designed and developed by the DRDO.
- It is capable of engaging targets at a range of over 100 km.
- The missile is equipped with advanced guidance and navigation systems that allow it to destroy targets with greater accuracy.
- The missile is already inducted into the Indian Air Force.



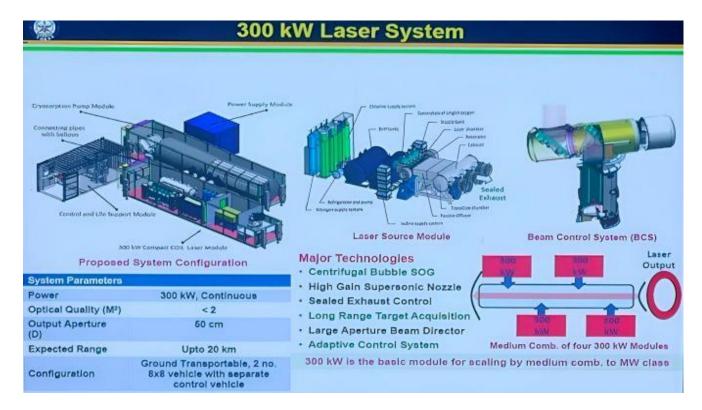
# India Develops Directed-Energy Laser Weapon 'Surya'

- According to information published on the Facebook account of the IADN Centre on March 9, 2025, the DRDO is developing the 300 kW Directed-Energy Weapon (DEW) laser, named Surya, which boasts a remarkable range of 20 kilometres.
- DRDO has made significant advancements in the field of directed-energy weapons. This system boasts an operational range of 20 kilometres and is designed to neutralise aerial threats such as drones, missiles, and other airborne projectiles.
- The Laser Science and Technology Centre DRDO's lead laboratory for laser technology, is spearheading the project. While DRDO has previously developed a 25-kilowatt laser capable of targeting ballistic missiles within a 5-7 km range, this new initiative represents a significant leap in power and capability.





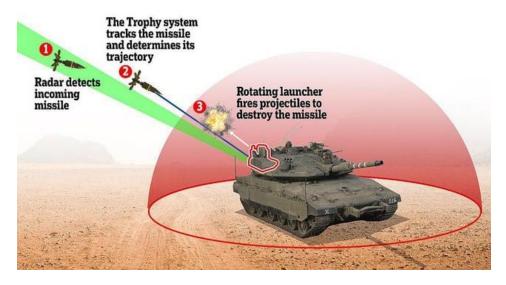




# **TROPHY Active Protection System**

- In February 2025, Rafael Advanced Defence Systems Ltd of Israel and Larsen & Toubro (L&T) of India announced a significant collaboration at Aero India 2025, aimed at integrating the TROPHY Active Protection System (APS) into Indian combat vehicles.
- The TROPHY system is the world's only operational and combat-proven APS, designed to protect armoured vehicles against anti-tank threats while enhancing their ability to identify enemy positions.
- This partnership aligns with India's "Atmanirbhar Bharat" and "Make in India,
   Make for the World" initiatives, emphasizing self-reliance in defence technology.
- TROPHY APS will be customised for Indian defence platforms and manufactured locally, leveraging Rafael's cutting-edge expertise and L&T's advanced manufacturing capabilities.
- The TROPHY Active Protection System (APS) is a state-of-the-art, combat-proven technology designed to safeguard military platforms against a wide array of modern threats, including anti-tank missiles, rocket-propelled grenades (RPGs), and small unmanned aerial systems (drones).

#### HOW THE TROPHY ACTIVE PROTECTION SYSTEM WORKS



# **Bharat Electronics Bags ₹2,463 Crore Order**

- BEL has secured a significant contract worth ₹2,463 crore from the Ministry of Defence to supply Ashwini Radars to the IAF. These radars are fully indigenous and have been jointly developed by BEL and the DRDO. Here are some key features and implications of this deal:
- Ashwini Radars (also known as Air Defence Tactical Control Radar) are Active Electronically Scanned Array (AESA) systems, which provide advanced capabilities such as electronic scanning in both azimuth and elevation.
- They offer 4D surveillance, enabling the detection and tracking of aerial targets, including fighter jets and slow-moving objects like helicopters and drones.
- This contract marks a substantial milestone in India's pursuit of self-reliance in defence technology. With this order, BEL's total order book for the current financial year has reached an impressive ₹17,030 crore.



# **Framework To Restrict Chinese Components**

- MoD is finalizing a framework to eliminate the use of Chinese components in military drones, addressing national security concerns and promoting indigenisation.
- This initiative follows intelligence reports highlighting vulnerabilities caused by Chinese-made parts in drones used by the Indian Army, particularly in border areas.
- These components, including cameras, communication systems, and software, pose risks of data breaches and adversary control over drones.
- Intelligence agencies flagged Chinese components in domestically manufactured drones supplied to the Army, raising alarms about compromised intelligence-gathering and operational control.



# **REVIEW QUESTIONS**

- 1. Which of the following is the only known overseas airbase operated by the Indian Air Force?
- A. Diego Garcia
- B. Ayni Air Base
- C. Farkhor Air Base
- D. Changi Naval Base

**ANSWER: C** 

- 2. India has secured military access to which port in Oman for refueling and maintenance of naval vessels?
- A. Sabang Port
- B. Dugm Port
- C. Nha Trang Port
- D. Assumption Island

**ANSWER: B** 

- 3. The Agaléga Islands, where India is developing a strategic military base, belong to which country?
- A. Seychelles
- B. Mauritius
- C. Indonesia
- D. Vietnam

**ANSWER: B** 

- 4. Which Indian military base is strategically located near the Malacca Strait in Indonesia?
- A. Changi Naval Base
- B. Sabang Port
- C. Nha Trang Port
- D. Reunion Island

**ANSWER: B** 

- 5. Which of the following Indian military bases is developed in partnership with France?
- A. Reunion Island
- B. Farkhor Air Base
- C. Diego Garcia

D. Assumption Island

**ANSWER: A** 

- 6. Which Indian company has secured a ₹2,463 crore contract to supply Ashwini Radars to the IAF?
- A. Hindustan Aeronautics Limited (HAL)
- B. Bharat Electronics Limited (BEL)
- C. Larsen & Toubro (L&T)
- D. Tata Advanced Systems

**ANSWER: B** 

- 7. What is the TROPHY Active Protection System (APS) designed for?
- A. Enhancing communication in combat zones
- B. Protecting armored vehicles from anti-tank threats
- C. Tracking enemy aircraft movements
- D. Jamming enemy radar systems

**ANSWER: B** 

- 8. What is the name of the 300 kW Directed-Energy Weapon (DEW) laser being developed by DRDO?
- A. Agni
- B. Surya
- C. Varuna
- D. Prahaar

**ANSWER: B** 

- 9. Where was the Astra air-to-air missile successfully test-fired from the Tejas aircraft?
- A. Pokhran, Rajasthan
- B. Wheeler Island, Odisha
- C. Chandipur, Odisha
- D. Thar Desert, Rajasthan

**ANSWER: C** 

## 10. Which organization developed the Astra missile?

- A. Hindustan Aeronautics Limited (HAL)
- B. Indian Space Research Organisation (ISRO)
- C. Defence Research and Development Organisation (DRDO)

D. Bharat Dynamics Limited (BDL)

**ANSWER: C** 

#### 11.INS Darshak Is A

- **A.** Destroyer
- B. OPV
- C. Submarine
- D. Hydrographic Survey Ship

**ANSWER: D** 

## 12. Pangong Tso lake Is Located In

- A. Kashmir
- B. Ladakh
- C. Odisha
- D. Kochi

**ANSWER: B** 

## 13. INS Khukri Is A Type Of

- A. Frigate
- B. Submarine
- C. Destroyer
- D. Missile Corvette

**ANSWER: D** 

## 14. Pangong Tso lake Is Located In

- A. Kashmir
- B. Ladakh
- C. Odisha
- D. Kochi

**ANSWER: B** 

#### 15. Priyadarshini Is A Fast Patrol Vessel Of

- A. ICG
- B. IAF
- C. Indian Navy
- D. BSF

**ANSWER: A** 

#### 16. Which Port Is Located In the Western Coast of India?

- A. Kandla
- B. Kolkata
- C. Mangalore
- D. Visakhapatnam

**ANSWER: A** 

#### 17. AAI Stands For

- A. Airport Author of India
- B. Air Authority of India
- C. Airport Authority of India
- D. None of the above

**ANSWER: C** 

# 18. India Purchased Boeing 737 from

- A. USA
- B. Sweden
- C. France
- D. None of the above

**ANSWER: A** 

# 19. Indian Army Flag Consist Colours of \_\_\_ Colours.

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

**ANSWER: A** 

## 20. Operation Talwar Was Conducted In

- A. 1978
- B. 1988
- C. 1998
- D. 1999

**ANSWER: D**