

Daily Defence Current Affairs

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Adani Defence Boosts Pilot Training Capacity

- AdDefence Systems & Technologies Ltd (ADSTL), in partnership with Prime Aero Services LLP, has finalised agreements to acquire a majority stake in Flight Simulation Technique Centre Pvt Ltd (FSTC), India's largest independent provider of flight training and simulation.
- The enterprise value of the deal is Rs 820 crore. FSTC operates 11 full-flight simulators and 17 training aircraft, offering a full range of pilot training, including commercial pilot licences, type ratings, recurrent training and specialised skill programmes.
- The company is certified by the DGCA (Directorate General of Civil Aviation) and EASA (European Union Aviation Safety Agency). It runs advanced simulation centres in Gurugram and Hyderabad with room for expansion, and it operates one of the country's largest flying schools at Bhiwani and Narnaul in Haryana.



Col Prateek Roy receives Geddes Gavel Award

- Col Prateek Roy of the Indian Army was awarded the Geddes Gavel Award on completion of the Defence Strategic and Studies Course at Australian Defence College, the Indian High Commission in Canberra.
- As per the High Commission, the award is in recognition of the student who displays the greatest understanding of factors influencing regional relationships and decision-making and who demonstrates superior knowledge across political, diplomatic, military, cultural, and economic areas.



32 Strategic Infra Projects in Arunachal

- Thirty-two strategically significant infrastructure projects of Border Roads Organisation (BRO) in Arunachal Pradesh were inaugurated by Defence Minister Rajnath Singh virtually.
- These 32 were among 125 such infrastructure projects, spread across various states, which Singh inaugurated from a programme in Ladakh. A programme was organised by the 44 Border Roads Task Force at Aalo in West Siang district on the occasion.
- State Law and Justice Minister Kento Jini expressed hope that these projects will support troops deployed along the India-China border in Shi Yomi and Upper Siang districts.

- He said the projects will provide uninterrupted connectivity to the armed forces and locals, improving operational preparedness and enabling quicker movement across the region.
- Among those implemented by Project Brahmanak are the 35-metre Shene Nallah bridge on Tato-Mechukha Road in Shi Yomi district, and 15-metre Ritbung bridge, 40-metre Rabung bridge, 40-metre Seyo Nallah bridge, 20-metre Sirak Nallah bridge and 10-metre Raboung Nallah bridge on Ditte Dimme-Migging Road, and 45-metre Naglung Ri bridge on Tuting-Bona Road -- all in Upper Siang district.
- The rest have been implemented by **Project Vartak, Project Arunank and Project Udayak**. Among them are roads and a helipad project.



Rajnath Singh Dedicates 125 BRO Projects to Nation

- Defence Minister Rajnath Singh dedicated 125 newly completed projects of Border Roads Organisation to the nation from Leh, calling them a "vivid example" of government's commitment to bolstering India's border infrastructure.
- These strategically significant projects -- built at a cost of Rs 5,000 crore and spread across the Uts of Ladakh and Jammu and Kashmir, and seven states including Arunachal Pradesh, Sikkim, Himachal Pradesh, Uttarakhand, Rajasthan, West Bengal and Mizoram -- consisted of 28 roads, 93 bridges and four miscellaneous others.

- The event marked the largest single-day and highest-value inauguration in the history of the Border Roads Organisation (BRO).
- The defence minister underlined that the 920-metre Shyok Tunnel, constructed along the Darbuk-Shyok-Daulat Beg Oldi Road in Ladakh, is an engineering marvel that will provide all-weather connectivity to one of the most difficult military terrains in the world.
- The newly inaugurated projects will enhance mobility of the armed forces, ensure smooth delivery of logistics, boost tourism, generate employment opportunities and increase economic activities, the defence minister said.
- Global collaborations – regular international exercises such as Malabar, Varuna and Milan strengthen maritime partnerships



Tech Transfer of Su-57's Engine To India

- Russia's proposal to India for the licensed production and comprehensive technology transfer of the Su-57's Izdeliye-177S engine marks a pivotal advancement in bilateral defence cooperation.
- This engine, also termed Product 177S or an evolution of the Saturn AL-41F1, promises enhanced thrust reaching 142 kN, superior fuel efficiency, and stealth-optimised thrust vector control nozzles, positioning it as a bridge for India's fifth-generation ambitions.
- ROSTEC CEO Sergei Chemezov has publicly affirmed Russia's readiness to meet all Indian demands, encompassing engines, avionics, stealth materials, and AI integration, to foster local manufacturing at Hindustan Aeronautics Limited (HAL).

- The deal emphasises full technology transfer, granting India unrestricted access to critical design data for hot-section components like turbine blades, alongside sensors and software.
- HAL's Koraput division stands poised to produce major engine modules, aligning with the "Make in India" initiative and mitigating sanctions risks through supply chain localisation.
- This arrangement extends beyond new builds, offering upgrades for India's Su-30MKI fleet—over 260 aircraft strong—transforming them into "Super Sukhois" with extended service life beyond 4,000 hours and improved thrust-to-weight ratios of 9.5:1.
- A tailored two-seat variant of the Su-57E emerges as a compelling option for the Indian Air Force, incorporating indigenous systems such as Astra missiles and Virupaksha AESA radars for 40-60% localisation.
- India insists on at least 80% technology transfer for the 177S, including in-country final testing by United Engine Corporation, to master propulsion vital for AMCA MK-2.



Project Sena Sarthi

- The Indian Army has taken a significant step forward in addressing its fuel logistics challenges in high-altitude areas by commissioning the first underground fuel, oil, and lubricant (FOL) storage facility in the Kargil Sector.
- Titled Project Sena Sarthi, it consists of newly constructed storage tanks that will double the fuel-holding capacity, ensuring sustained operational preparedness for troops deployed in one of the most challenging terrains and climatic conditions in the country.
- This development, part of the initiative called Project Sena Sarthi, aims to enhance the operational readiness of troops stationed in some of the most inhospitable and strategically critical regions of the country.
- High-altitude regions like Ladakh and the Northeast pose substantial logistical difficulties due to their extreme climatic conditions and treacherous terrain. At

altitudes of up to 20,000 feet, sub-zero temperatures significantly impact the physical and chemical stability of FOL products.

- To mitigate these challenges, several approaches are currently employed. The DRDO has developed diesel and lubricants specially formulated for use in high-altitude environments.
- One of the critical operational hurdles relates to the form in which fuel is transported and stored at forward positions. Traditionally, the Indian Army uses 200-litre mild steel barrels for carrying FOL.
- Such innovations would markedly improve storage efficiency and handling ease. The barrels must also endure harsh temperature ranges, from minus 45 degrees Celsius to 50 degrees Celsius, and withstand the impact from falls or drops in rugged terrain.



REVIEW QUESTIONS

1. The Indian Army's first underground FOL storage facility in the Kargil Sector is part of which project?
 - A. Project Vijay Shakti
 - B. Project Sena Sarthi
 - C. Project Him Pravaah
 - D. Project Suraksha

ANSWER: B

2. What is the enterprise value of the deal through which ADSTL and Prime Aero Services LLP will acquire a majority stake in FSTC?

- A. ₹500 crore
- B. ₹620 crore
- C. ₹820 crore
- D. ₹900 crore

ANSWER: C

3. FSTC, India's largest independent provider of flight training and simulation, currently operates how many full-flight simulators?

- A. 7
- B. 9
- C. 11
- D. 14

ANSWER: C

4. Who from the Indian Army received the Geddes Gavel Award at the Australian Defence College?

- A. Col Arvind Sharma
- B. Col Prateek Roy
- C. Col Raghav Singh
- D. Col Ritesh Kumar

ANSWER: B

5. Russia's proposal to India for licensed production and technology transfer is related to which engine?

- A. AL-31FP
- B. RD-33MK
- C. Izdeliye-117
- D. Izdeliye-177S

ANSWER: D

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