

Daily Defence Current Affairs

10 December 2025

Russian R-37M To Integrate With Su-30MKI

- Russia and India are on the verge of reaching a significant agreement to upgrade the Su-30MKI fleet, marking a key milestone in the ongoing collaboration between the two nations on this vital air superiority platform.
- The deal involves a comprehensive modernisation of approximately 100 Su-30MKI fighters, enhancing their combat capabilities and ensuring their operational relevance well into the future.
- A central highlight of this upgrade is the integration of the R-37M Axehead missile, an ultra long-range beyond-visual-range (BVR) air-to-air missile. This missile significantly extends the Su-30MKI's engagement envelope, allowing it to target adversaries at distances previously unreachable with older missile systems.
- The R-37M is designed to engage high-value targets such as AWACS and tanker aircraft, thus enhancing India's air dominance and strategic deterrence capabilities.



'Vrishabh' Unmanned Ground Vehicle (UGV)

- Bhairav Robotics, based in Kakinada and associated with Zen Technologies, is making significant strides in developing the indigenous Vrishabh Unmanned Ground Vehicle (UGV), aimed at serving diverse defence roles.
- This UGV project reflects a growing emphasis on modern military technology innovations designed to enhance operational versatility while minimising human risk in combat and support roles.
- The Vrishabh UGV is conceived as a highly modular and electric-powered platform. Such modularity allows adaptation for a wide range of military applications, enabling the vehicle to shift between tasks such as logistics, surveillance, reconnaissance, and direct engagement in combat scenarios.
- One of the primary roles envisaged for the Vrishabh UGV is logistics support, particularly focused on last-mile material movement. This capability is intended to relieve human personnel from dangerous tasks involving the transportation of supplies, ammunition, and other essentials under threat conditions.



DRDO able to save over Rs 2,64,000 crore

- A parliamentary panel has said the Defence Research and Development Organisation (DRDO) has been able to save an amount of Rs 2,64,156 crore because of its own "indigenous research" over the last five years.
- The Parliamentary Standing Committee on Defence in a report presented in Parliament on Tuesday also said that in the past and current year, "crucial milestones in developing next-generation hypersonic technologies and missiles have been achieved" by the DRDO.
- Also, Very Short Range Air Defence System (VSHORADS) has been indigenously developed and successfully flight tested. Besides, Man-Portable Anti-Tank

Guided Missile has successfully completed PSQR (Provisional Staff Qualitative Requirements) validation trials of the Indian Army, it added.

- In another report, the Parliamentary Standing Committee on Defence said it has been informed that there are 6,40,536 defence civilian pensioners and 26,79,645 armed forces pensioners.
- "The Committee notes that the **System for Pension Administration (Raksha) (SPARSH)** is being implemented for making the pension sanction and disbursement for the armed forces.



DRDO Hands Over 7 Technologies

- From a long-life seawater battery system for sustained underwater sensing and surveillance applications to a waterjet propulsion system for fast interceptor craft, the DRDO has handed over seven technologies to the armed forces, the government said.
-
- These technologies have been developed under the Technology Development Fund (TDF) scheme, the defence ministry said on Friday.
-
- "Defence Research and Development Organisation (DRDO) has handed over seven technologies developed under the Technology Development Fund (TDF) scheme to the three Services," it said in a statement.

- "The technologies are -- an indigenous high-voltage power supply for airborne self-protection jammers, a tide-efficient gangway for naval jetties, advanced very low frequency-high frequency switching matrix systems, VLF loop aerals for underwater platforms, indigenous waterjet propulsion system for fast interceptor craft, a novel process for recovery of lithium precursors from used lithium-ion batteries and a long-life seawater battery system for sustained underwater sensing and surveillance applications," the ministry said.



REVIEW QUESTIONS

1. The integration of which missile is a key highlight of the Su-30MKI modernisation deal between India and Russia?

A. Astra Mk-2
B. R-37M Axehead
C. Meteor
D. R-77-1

ANSWER: B

2. The R-37M missile being integrated with the Su-30MKI is primarily designed to target which type of platforms?

A. Armoured vehicles
B. Naval destroyers
C. AWACS and tanker aircraft
D. Infantry positions

ANSWER: C

3. What is a key feature of the indigenous 'Vrishabh' UGV developed by Bhairav Robotics?

- A. Nuclear-powered propulsion
- B. Fully autonomous vertical take-off
- C. Highly modular and electric-powered platform
- D. Amphibious heavy-lift capability

ANSWER: C

4. According to the parliamentary panel, how much money has DRDO saved through indigenous research over the last five years?

- A. ₹1,10,000 crore
- B. ₹3,50,000 crore
- C. ₹2,64,156 crore
- D. ₹75,000 crore

ANSWER: C

5. Under the DRDO's TDF scheme, which of the following is one of the technologies handed over to the armed forces?

- A. Hypersonic wind tunnel system
- B. Waterjet propulsion system for fast interceptor craft
- C. Laser-based anti-drone strike module
- D. Space-based infrared detection sensor

ANSWER: B

6. Varuna Has Been Developed By The____.

- E. Sagar Defence Engineering Private Limited
- F. DRDO
- G. IIT Kanpur
- H. HAL

ANSWER: A

7. Ex 'KONKAN, INDRADHANUSH' Conducted b/w India &

- A. Qatar
- B. Oman
- C. UAE
- D. UK

ANSWER: D

8. ___ Is India's Border Guarding Organisation On Its Border With Pakistan And Bangladesh.

- A. SSB
- B. ITBP
- C. BSF
- D. None

ANSWER: C

9. Eastern Region (E) Of ICG Is Located At

- A. Chennai
- B. Mumbai
- C. Kolkata
- D. None of the above

ANSWER: A

10. Priyadarshini-class Patrol Vessels Is Manufactured By

- A. CSL
- B. MDL
- C. GRSE
- D. None of the above

ANSWER: C

11. Indian Navy Founded On

- A.** 26 January 1945
- B.** 26 January 1950
- C.** 26 January 1960
- D.** 26 January 1970

ANSWER: B

12. With Which Nation India Holds 2+2 Dialogue?

- A. Pakistan
- B. Japan
- C. USA
- D. Both B & C

ANSWER: D

13. DRDO Lakshya Is A

- A. Fighter Jet
- B. Ship
- C. Tank
- D. UAV

ANSWER: D

14. Exercise Samudra Shakti Conducted B/w Indonesia &

- A. India
- B. Nepal
- C. Bangladesh
- D. Bhutan

ANSWER: A

15. Captain Rank of Indian Navy Equivalent to Which rank of IAF?

- A. Flying Officer
- B. Flight Lieutenant
- C. Group Captain
- D. None

ANSWER: C

16. Brussels Is The Capital Of

- A. Belgium
- B. Belize
- C. Benin
- D. Bhutan

ANSWER: A

17. "Jungle Nama" Book Is Written By

- A. Jhumpa Lahiri
- B. Amitav Ghosh
- C. Hew Strachan
- D. Nirupama Rao

ANSWER: B

18. Rapid Action Force Hq Is In

- A. Mumbai
- B. Lucknow
- C. Surat

D. New Delhi

ANSWER: D

19. War Cry Of SIKH LIGHT INFANTRY Is

- A. Garud ka hun bol pyare
- B. Everywhere
- C. Raja Ramachandra ki jai
- D. Jo bole So Nihal, sat sri akal

ANSWER: D

20. "Wings of Fire" Book Is Written By

- A. Jhumpa Lahiri
- B. Amitav Ghosh
- C. Hew Strachan
- D. Dr. APJ Kalam

ANSWER: B

