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Defence Current Affairs

10 December 2022

Indian Army Looking To Procure High Mobility Reconnaissance Vehicle & GTV

- Indian Army looking to procure 91 High Mobility Reconnaissance Vehicle For Armoured And Mechanised Infantry Units to be employed by Command and Recce elements of Mechanised Infantry Units and Armoured Regiments for Recce & Surveillance tasks.
- HMRV should possess adequate mobility and protect troops on board. In addition, it should be able to carry the battle loads including weapons, ammunition, surveillance, and communication equipment required to carry out mandated operational tasks.
- HMRV Should have a cruising range of a minimum of 400 Km on road and
- 200 Km in cross country (off-road) and be able to carry a payload of not less than 1.5 Tons.
- Indian Army has been issued Acceptance of Necessity (AoN) for the procurement of 252 GTV 6×6. GTV 6×6 is a High Mobility vehicle to tow 155mm Artillery Guns and Air Defence Radars. The GTVs 6×6 should be able to tow a 20 Ton Gun/Radar.
- The vehicle engine should be able to operate in ambient temperatures of minimum temperatures between minus 15. C to minus 5. C and maximum temperatures between plus 40°C to plus 45°C. Suitable device should be provided for starting the engine in a cold climate.
- GTV should have a payload carrying capacity of 8000 kg or more including the weight of the crane. GTV also should have a power-driven winch controlled from the driver cabin to self-recover the GTV (6×6) and gun through soft patches of sand or slush with capacity.



MoD Resolves Tussle Between Army and DRDO Over Zoravar Light Tank Program

- Ministry of Defence has resolved the difference that had emerged between the Indian Army and DRDO over who gets production rights to manufacture armored fighting vehicle-Indian light tank (AFV-ILT) under Project `Zoravar`, at a cost of around Rs 17,500 crore.
- It has been decided now that Heavy Vehicles Factory (HVF) located at Avadi in Chennai will get to manufacture the first 59 of the 354 light tanks and the rest 295 tanks will be manufactured by a Private sector company after the delivery of the first lot by the DRDO.

- DRDO and L&T are already engaged in the development of the prototype that DRDO plans to roll out by mid-2023 for evaluation and trial purposes by the Indian Army. L&T is a developmental partner in their program and not a production partner and which private firm gets to manufacture it will be decided at a later stage.



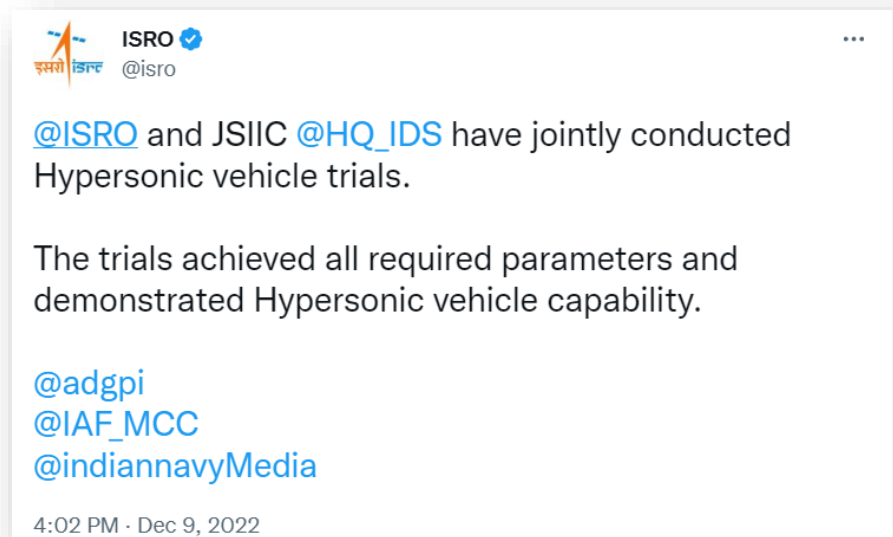
ISRO & JSIIC IDS Have Jointly Conducted Hypersonic Vehicle Trials

- Indian Space Research Organisation (ISRO) on Friday successfully conducted a joint hypersonic vehicle trial along with the Headquarters, Integrated Defence Staff (HQ IDS).
- According to the country's premier space research agency, the joint hypersonic vehicle trial matched with the predetermined targets.

What is a hypersonic vehicle?

- A hypersonic vehicle can be an airplane, missile, or spacecraft that has the ability to travel five times faster than the speed of sound, or greater than Mach 5. It is regarded as a cutting-edge technology, and countries like China, India, Russia, and the United States have been trying to further enhance the ability of their hypersonic weapons.
- The Indian space agency has been developing hypersonic missiles in collaboration with Russia.

- Indian scientists are also working on a project for an indigenous, dual-capable hypersonic cruise missile as part of its Hypersonic Technology Demonstrator Vehicle program. As per reports, the Indian indigenous missile will have the ability to fire nuclear weapons along with conventional weapons.



UK, Japan, Italy To Develop Next-generation Fighter Jets

- The United Kingdom, Japan and Italy announced Friday they are teaming up to build a sixth-generation fighter jet, designed to rival or eclipse the best warplanes now employed by the likes of China and Russia – and possibly even the United States, the main ally of the trio.
- “We are announcing the Global Combat Air Program (GCAP) – an ambitious endeavour to develop a next-generation fighter aircraft by 2035,” British, Japanese and Italian leaders said in a joint statement.
- The leaders’ statement did not mention China or Russia by name, but said the new fighter jet is needed because “threats and aggression are increasing” against the “rules-based, free and open international order.”
- “Defending our democracy, economy and security, and protecting regional stability, are ever more important,” the leaders said.
- In a separate statement, the British government said development of the new warplane is expected to begin in 2024, and it is expected to be flying by 2035.
- It will showcase technologies from each of the three partners, the British statement said.

- “The ambition is for this to be a next-generation jet enhanced by a network of capabilities such as uncrewed aircraft, advanced sensors, cutting-edge weapons and innovative data systems,” it added.
- The new jet is seen as a replacement for Britain’s Typhoon fighters and Japan’s F-2s.
- The new program will see Britain, Japan and Italy going their own way without the assistance of the US, the world’s preeminent warplane maker.



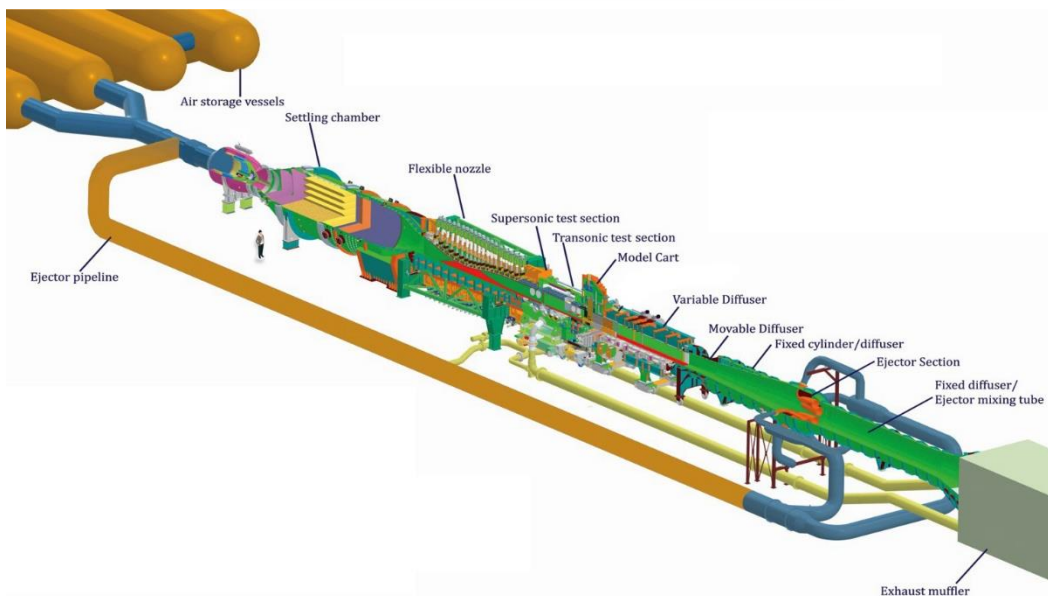
EXAMS

First Blow Down Test Of Trisonic Wind Tunnel At VSSC

- The first blow down test of the newly realised Trisonic Wind Tunnel was held on 8th December 2022 at Vikram Sarabhai Space Centre, Thiruvananthapuram. The Trisonic Wind Tunnel is a system to aid aerodynamic design of rockets and re-entry spacecrafts by characterizing a scaled model by evaluating forces, moments, load distribution, unsteady pressures, acoustic levels etc.
- The tunnel can be used for testing various space vehicles in three flight regimes - below the speed of sound, at the speed of sound and above the speed of sound: hence the name trisonic wind tunnel.
- The tunnel can simulate flight conditions from 0.2 times the speed of sound (68 m/s) to 4 times the speed of sound (1360 m/s). The trisonic wind tunnel is a major step towards India’s increasing self-reliance in Aerospace sector.
- The blow down was formally switched on by Shri S Somanath, Chairman, ISRO/Secretary, DOS in presence of senior officials of ISRO including Dr S

Unnikrishnan Nair, Director, VSSC, Dr. V Narayanan, Director, LPSC and Dr D Sam Dayala Dev, Director, IISU.

- The huge structure was built with several hundred tonnes of steel and was implemented through M/s Tata Projects India Ltd Mumbai in association with M/s Aiolos Engineering Corporation, Canada and fully realised by industries across India such as M/s Walchandnagar Industries, Pune, M/s Acoustic India, Tiruchirappalli, M/s Artson Engineering, Nashik, M/s Summits Hygronics, Coimbatore, M/s Hydrocare Fluid Power Systems, Bangalore and M/s Siemens Energy, Ahmedabad.



REVIEW QUESTIONS

1. Space Agency __ Successfully Conducts Joint Hypersonic Vehicle Trials.

- A. JAXA
- B. NASA
- C. ISRO
- D. SpaceX

ANSWER: C

2. Which of the following is the Trans Himalayan pass?

- A. Rohtang pass
- B. Banihal pass
- C. Aghil pass
- D. Thaga La

ANSWER: C

3. From Which Country Has India Purchased Its Apache Helicopters?

- A. U.K.
- B. Sweden
- C. France
- D. USA

ANSWER: D

4. 'Urja Pravaha', which has been inducted, is the Ship (Auxiliary Barge) of which armed force?

- A. Indian Air Force
- B. Indian Army
- C. Indian Coast Guard
- D. Indian Navy

ANSWER: C

5. Which Nation Has Hosted The World's Largest Cyber Exercise Locked Shields 2022?

- A. Ukraine
- B. Croatia
- C. Moldova
- D. Estonia

ANSWER: D

6. Sea Dragon-22 Is A

- A. Domestic Ex
- B. Multilateral Ex
- C. Bilateral Ex
- D. None of these

ANSWER: B

7. Army Adventure Nodal Centre (Hang Gliding) Is In

- A. Deolali, Maharashtra
- B. Noida, U.P
- C. Gurugram, Haryana
- D. Shimla, H.P

ANSWER: A

8. Wartime Gallantry Award Is/Are

- A. Param Vir Chakra
- B. Maha Vir Chakra
- C. Vir Chakra
- D. All of the above

ANSWER: D

9. The National Cadet Corps (NCC) HQ, is at___

- A. New Delhi
- B. Mumbai
- C. Lucknow
- D. Pune

ANSWER: A

10. The National Security Guard (NSG) was founded on___

- A. 13 October 1983
- B. 14 October 1984
- C. 16 October 1984
- D. 17 October 1985

ANSWER: C

11. Air Commodore Of IAF Is Equivalent To The Which Rank Of Indian Army?

- A. Brigadier
- B. Captain
- C. Lt. Colonel
- D. Colonel

ANSWER: A

12. Which Of The Following Is A Land-locked Harbour?

- A. Haldia
- B. Vishakhapatnam
- C. Ennore
- D. Mumbai

ANSWER: B

13. SpIN Platform, Recently In News, Is Related To Which Of The Following?

- A. Space entrepreneurship
- B. Genetic Engineering
- C. Stubble Buring
- D. Vaccine Development

ANSWER: A

14. Naypyidaw Is The Capital Of Which Among The Following Border Nations Of India? Army?

- A. Bhutan
- B. Nepal
- C. Afghanistan
- D. Myanmar

ANSWER: D

15. "The Long Game: How the Chinese Negotiate with India" Book Is Written By

- A. Vijay Gokhale
- B. Amitav Ghosh's
- C. Chetan Bhagat
- D. Jhumpa Lahiri

ANSWER: A

16. Indian Military Academy Is At

- A. Mhow

- B. Bhopal
- C. Gwalior
- D. Dehradun

ANSWER: D

17. Military College of Telecommunication Engineering Is At

- A. Gopalpur
- B. Mhow
- C. Pune
- D. Haridwar

ANSWER: B

18. Solomon Islands Is Located On

- A. Indian Ocean
- B. Pacific Ocean
- C. Arctic Ocean
- D. None of the above

ANSWER: B

19. Wing Commander Rank Of IAF Is Equivalent to ___ Rank of Indian Navy.

- A. Commander
- B. Lieutenant
- C. Admiral
- D. Captain

ANSWER: A

20. Where Is The Hq Of The Northern Command of The Indian Army?

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

ANSWER: D

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