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DEFENCE UPDATES

23 JUNE 2021

ARDE, Pune develops State-of-the-Art Canopy Severance System for LCA Tejas, HJT-36 & HJT-40

- This is an escape path clearance system for the pilot in case of emergencies occurring on indigenously developed LCA Tejas, HJT-36 and HJT-40 Aircraft. It provides safe passage by pre-weakening/severing the canopy to facilitate the smooth escape of the pilot in the shortest possible time.
- CSS has two independent sub-systems.
 1. **In-flight Egress System (IES)** for in-flight emergencies (which is integrated with the seat ejection operation)
 2. **Ground Egress System (GES)** for on-ground emergencies (which is independent of seat ejection).
- CSS works on the principle of controlled propagation of detonation using explosive mechanical energy. It consists of critical mechanical and explosive components qualified to military-grade requirements and demonstrating high reliability.
- CSS for LCA Tejas were tested successfully in seat ejection trials at M/s Martin Baker Co., London, UK and for trainer aircraft at M/s. Zvezda, Moscow, Russia.
- The CSS design has been cleared by Certifying Agency RCMA (AA), Pune.
- CEMILAC, Bangalore has issued Type Approval.
- ARDE and HEMRL are now capable of developing CSS for any Military Aircraft as required by Indian Air Force.

Keel Laying For Indian Navy's 2nd Project 1135.6 Frigate

- The contract was signed on 25 January 2019 between Ministry of Defence and Goa Shipyard Limited under the indigenous ship building program.
- Keel for the first ship was laid on 29 Jan 2021. The first ship would be delivered in 2026 and second ship subsequently after 06 months.
- Also known as the Talwar class, the Project 1135.6 is a class of guided-missile frigates designed and built by Russia for the Indian Navy. A modification of the

Krivak III-class frigates, the Project 1135.6 is fitted with a number of Make in India sub-systems.

- The two follow-on Project 1135.6 frigates are to integrate the BrahMos cruise missile system in place of the 3M-54E Klub-N anti-ship missile and “advanced sensors”.

Pakistan’s New Type 054 A/P Frigate Started Sea Trials In China

- Pakistan signed an initial contract for the delivery two Type 054 A/P frigates in 2017. An additional contract for two more ships was announced in June 2018.
- The first-in-class frigate was launched in August 2020 and the second in January 2021. The keel laying took place on May 1st, 2021, for third.
- All four units are built in China and the first two are expected to be delivered to Pakistan by year end.
- In addition to these frigates from China, Pakistan will also commission new corvettes from Turkey and OPV from the Netherlands.
- The Type 054A is a multi-role frigate and is recognized as the backbone of the People’s Liberation Army Navy (PLAN) fleet of surface combatants with 30 vessels in commission.

Japan’s MHI Launches ‘Noshiro’ – 3rd 30FFM Mogami-Class Frigate for the JMSDF

- The vessel is named after the Noshiro River located in Akita Prefecture, Japan.
- The first ship-in-class, **Mogami**, was launched in March 2021 by Mitsubishi Heavy Industries while another shipyard, Mitsui E & S Shipbuilding located in Okayama launched the second ship of the class, **Kumano**, back in November 2020.
- A total number of 22 Frigates are expected to be procured for the JMSDF.

REVIEW QUESTIONS

1. Which organization developed State-of-the-Art Canopy Severance System for IAF aircraft?

- A. Armament Research & Development Establishment, Pune
- B. Regional Centre for Military Airworthiness, Pune
- C. Air Force Test Pilot School, Bengaluru
- D. Flight Testing Laboratory, Bengaluru

ANSWER: A

2. As of now, which of these aircraft are considered for CSS attachment?

- A. LCA Tejas
- B. HJT-36
- C. HTT-40
- D. All the above

ANSWER: D

3. Project 1135.6 Frigate is being built by

- A. Garden Reach Shipbuilders and Engineers Limited
- B. Goa Shipyard Limited
- C. Hindustan Shipyard Limited
- D. Mazagaon Dockyard Limited

ANSWER: B

4. Also known as which class, the Project 1135.6 is a class of guided-missile frigates designed and built by Russia for the Indian Navy?

- A. Vidyut
- B. Sindhughosh
- C. Talwar
- D. Arihant

ANSWER: C

5. Recently, Pakistan's New Type 054 A/P Frigate Started Sea Trials in which country?

- A. Kuwait
- B. Sweden

- C. Russia
- D. China

ANSWER: D

6. Japan's which company launched 'Noshiro' – 3rd 30FFM Mogami-Class Frigate for the JMSDF?

- A. Mitsubishi Heavy Industries
- B. Kawasaki Heavy Industries
- C. Mitsubishi Electric Corporation
- D. Ishikawajima-Harima Heavy Industries

ANSWER: A

7. 'Noshiro' – 3rd 30FFM Mogami-Class Frigate for the JMSDF, is named after a:

- A. Mountain
- B. Mangrove forest
- C. River
- D. Sea

ANSWER: C

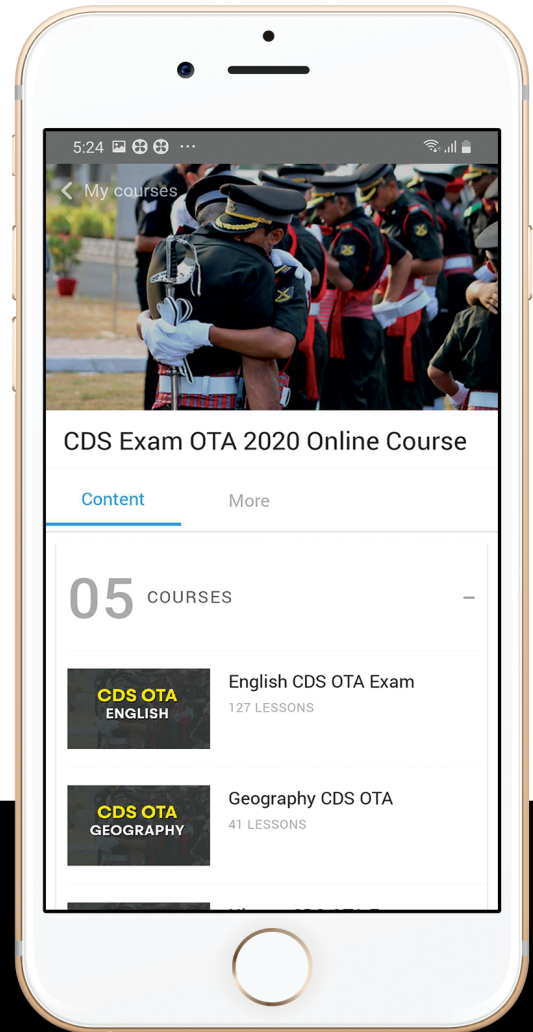




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