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Defence Current Affairs

05 November 2022

Joint Military Training-2022 With Singapore

- On 03 November 2022, the 11th edition of the annual Joint Military Training (JMT) between the IAF and the Royal Singapore Air Force (RSAF) commenced at Air Force Station, Kalaikunda, W.B.
- The two Air Forces have resumed this training after a gap of two years. The bilateral phase of the exercise will be conducted from 09 to 18 November 2022 and will see the two Air Forces engage in advanced air combat simulations.
- The RSAF is participating in JMT-2022 with F-16 aircraft, while the IAF would field the Su-30 MKI, Jaguar, MiG-29 and LCA Tejas aircraft. The exercise underscores the strong and longstanding relationship between India and Singapore in the domain of defence cooperation.



MoD Extends Pro-rata Pension Benefits To JCOs/ORs

- MoD has extended the benefit of provision of pro-rata pension to JCOs/ORs of the Defence Services, having not less than 10 years of qualifying service in Defence Service, who join/joined Central Public Enterprises/Central Autonomous Bodies/ Central Public Sector Undertaking on permanent absorption/employment.
- Earlier this benefit was limited to the commissioned officers only. Raksha Mantri Shri Rajnath Singh has approved a proposal of the Department of Ex-servicemen in this regard and the Ministry issued necessary order dated 04.11.2022.
- JCOs/ORs with not less than 10 years of qualifying service in Defence Service will be entitled to receive pro-rata pension in accordance with provisions of this order.



Indian Army Approves Five Make II Projects Providing Impetus to “Atma Nirbhaarta”

- Indian Army is spearheading actions to provide impetus to “Make Projects” as the prime drivers of infusion of niche technologies through indigenous development. To give a further boost to the ongoing projects, Indian Army has now approved Project Sanction Orders (PSOs) of five Make II projects.
- **High Frequency Man Packed Software Defined Radio (HFSDR)**. Project Sanction Order (PSO) for development of prototype of Frequency Man Packed Software Defined Radio (HFSDR) under Make II scheme has been issued to 14 Developing Agencies (DAs). 300 HFSDRs are planned to be procured by the Indian Army, on

successful development of the prototype. State of the art, light weight HFSDR will provide long distance radio communication through enhanced data capability and band width coupled with enhanced security. It will facilitate blue force tracking with map based navigation using GIS, thereby increasing real time situational awareness. These radio sets will replace the existing HF radio sets in the inventory, which have limited data handling capability and obsolete technology.

- **Drone Kill System.** RPAS/ s have greatly impacted the modern battlefield even though drone related technologies are constantly evolving. The indigenous industry has adequate expertise to develop world class products in this field. As part of efforts to further encourage the indigenous anti-drone ecosystem, the Indian Army has approved Project Sanction Order (PSO) to 18 Developing Agencies (DAs) for procurement of 35 sets of Drone Kill Systems under the Make II scheme, post successful development of Prototype. The project is reserved for MSMEs/Start-ups. Drone Kill System is a hard kill anti drone system against low Radio Cross Section (RCS) Drone/ unmanned Aerial System (UAS), being developed to function in all types of terrains, both during day and night.
- **Infantry Training Weapon Simulator (IWTS).** Project Sanction Order (PSO) has been issued to four Developing Agencies (DAs) to develop the prototype for subsequent procurement of 125 sets of IWTS under the Make II procedure. The IWTS is the first tri service Make II project with the Indian Army as the lead service. The project is reserved for MSMEs/ Start ups. IWTS will be utilised to augment marksmanship skills of young soldiers on variety of weapons used by the , providing user friendly graphics to simulate battle scenarios. IWTS is a modern training aid, which will reduce recurrent expenditures on live ammunition, besides obviating the challenges of availability of firing ranges and inclement weather. Each IWTS will facilitate training of 10 personnel at any one point of time.
- **155mm Terminally Guided Munitions (TGM).** Project Sanction Order has been issued to six Developing Agencies (DAs) for development of 155 mm Terminally Guided Munition (TGM) under Make II scheme. Variants of ammunition were held in the inventory of the IA, sans, the precision strike capability. The IA therefore plans to procure approximately 2000 rounds of 155mm TGM against High Value Targets with assured Precision and Lethality for mission accomplishment and minimum collateral damage.

- **Medium Range Precision Kill System (MRPKS).** Project Sanction Order has been issued to 15 Developing Agencies (DAs) for developing a prototype of MRPKS under the Make-II category of DAP 2020. Post successful development of this prototype, the IA will procure 10 Sets of MRPKS. The Medium Range Precision Kill System (MRPKS), once launched can 'Loiter' in the air for upto two hours and can acquire, designate and engage real time high value targets upto 40 km. In times to come we see our country transforming as "AtmaNirbhaar" in Loitering Munition Technology.
- The Indian Army is already progressing 43 ongoing projects under the Make II procedure of Capital Acquisition. 17 out of 43 projects have been initiated through suo-moto proposals received from the industry, which has generated enthusiasm and confidence in the Indian defence industry for participation in the "Make procedure".
- Make II procurement scheme has given an impetus to increase the Design & Development in the defence industry to achieve indigenisation of high end technology systems in various types of weapon systems, ammunition and modern training systems, which are currently not available in the country. Multiple measures to expedite the ongoing Make II projects have resulted in tangible outcomes. 22 out of 43 Make II projects are now in prototype development stage, which is 66 % of projects by cost (Rs 18,000 Crores out of 27,000 Crores).



Indian Aerospace Ecosystem Seeing Unprecedented Growth Towards Becoming Self-reliant: IAF chief

- Air Chief Marshal V R Chaudhari on Friday called upon the Aircraft and System Testing Establishment (ASTE) to increase its outreach to capitalise on the unprecedented growth in the Indian aerospace ecosystem. The IAF chief also advocated the need to use new technologies like AI, and big data analytics in flight training and testing methodology.
- ASTE has served as a vital link across the entire spectrum of design, development, testing, evaluation, operationalisation and training with regards to war-waging equipment and personnel.
- "The Indian aerospace ecosystem is witnessing unprecedented growth towards becoming self-reliant. Impetus to domestic manufacturing and enhancing public private partnerships has presented a multitude of opportunities for our flight testing community to engage proactively and contribute effectively to meet the national objectives," the IAF chief said.
- Stating that flight testing is a unique and specialised field, the Air Chief Marshal said it was important to share best practices and ethics.
- "Institutions across the globe invest heavily in training human resources, building support infrastructure, and creating safe and conducive ecosystems for efficient flight test activity. Therefore, transactional relationships and peer interactions assume significant importance in this regard," the IAF chief further said.
- He called upon the participants to extract the best possible knowledge during the two-day seminar.
- "We must learn the right lessons from the past, understand contemporary challenges, and define our testing philosophy and methodology to maximise safety," he noted.
- "Optimise effort and minimise programme costs and timelines. Use of new technologies like Artificial Intelligence, simulators and big data analytics to reduce our flying effort will go a long way in improving our training and testing methodology," the Air Chief Marshal opined.
- Chaudhari praised ASTE saying that it is a saga of professional excellence, which has a singular objective of self-reliance in the field of flight testing.
- ASTE has been spearheading Indian Air Force's modernisation and operational right through the years, the Air Chief Marshal said.

- He added that the pilot training school under the aegis of ASTE has been instrumental in identifying and training the right human capital, necessary to undertake complex tasks in a challenging field of flight testing.
- "Air Force Pilot Training School has emerged as a centre of excellence for imparting high-quality training and producing a world-class test group, capable of facing all challenges associated with flight testing," he pointed out.



SSBCrack
EXAMS

GE Aerospace, Tata Advanced Systems Extend \$1-billion Contract For Aircraft Engine Components

- New Delhi, GE Aerospace and Tata Advanced Systems Ltd have extended their long term contract worth USD 1 billion for production and supply of several commercial aircraft engine components. The engine parts will be manufactured at the Tata Centre of Excellence for Aero Engines (Tata-TCoE).
- In a joint release on Friday, GE Aerospace and Tata Advanced Systems Ltd (TASL) said they have extended the manufacturing agreement under which TASL will continue to produce and supply several commercial aircraft engine components to GE's global engine manufacturing factories.
- Tata-TCoE was established in 2018 to manufacture CFM International LEAP engine components in India. CFM International is an equal joint venture between GE and Safran Aircraft Engines.
- A significant number of commercial aircraft in the country are powered by CFM's engines.

- "The LEAP engine continues to deliver improved fuel efficiency and asset utilisation for today's newest commercial narrow-body aircraft, logging more than 23 million engine flight hours since entering service in 2016," the release said.
- Mike Kauffman, VP & GM of Purchasing at GE Aerospace, said its relationship with TASL has matured over the last five years. "The Tata Centre of Excellence for Aero Engines has grown in scale and importance for us over time and is an excellent showcase of Make in India, for the world."
- Sukaran Singh, Managing Director and Chief Executive Officer of TASL, said it continues to invest in growing the aerospace skill base, technology, and production capability in the country.



Army Starts Process To Procure 120 Loitering Munitions, 10 Aerial Targeting System

- The Indian Army has started the process to procure 120 loitering munitions and 10 aerial targeting systems to bolster its military might along the frontier with China, officials said. The loitering munitions and the aerial targeting systems are being procured under the fast track procedure within the framework of 'buy Indian' category.
- The officials said the request for proposal or initial tender for the procurement will be issued around November 14.

- Under the prescribed specifications, the aerial targeting systems will be required to have a range of 100 km.
- The Indian Army has been ramping up its overall combat capabilities in view of the lingering border row with China in eastern Ladakh.
- It has significantly bolstered its fire power along the frontier with China by deploying a range of rockets and artillery weapons and it plans to procure an array of additional systems including 100 K9 Vajra howitzers and UAVs to further augment combat prowess.
- The Artillery units of the Indian Army already deployed K-9 Vajra Tracked Self-Propelled Howitzers, ultra-light M-777 howitzers, Pinaka rocket systems and Dhanush gun systems.



REVIEW QUESTIONS

1. ___ Of The Annual Joint Military Training B/W The IAF And The Royal Singapore Air Force.
 - A. 11th
 - B. 12th
 - C. 13th
 - D. 14th

ANSWER: A

2. ___ Extends Pro-rata Pension Benefits To JCOs/ORs With 10 Years Of Service.

- A. MHA
- B. MEA
- C. MOD
- D. NITI Aayog

ANSWER: C

3. Ex 'HARIMAU SHAKTI' Conducted b/w India &

- A. Qatar
- B. Oman
- C. Malaysia
- D. Maldives

ANSWER: C

4. HFSDR Stands For

- A. High Frequency Man Packed Software Defined Radio
- B. High Frequency Meta Packed Software Defined Radio
- C. High Frequency Multi Packed Software Defined Radio
- D. None

ANSWER: A

5. UIDAI Stands For

- A. Unique Identification Author of India
- B. Unique Identity Authority of India
- C. Unique Identification Authority of Indonesia
- D. Unique Identification Authority of India

ANSWER: D

6. India Isn't A Member Of Which Of The Following Groups?

- A. Nuclear Suppliers Group
- B. Australia Group
- C. Missile Technology Control Regime
- D. Wassenaar Arrangement

ANSWER: A

7. National Safety Day Is Observed On

- A. March 3
- B. March 4

- C. March 5
- D. March 6

ANSWER: B

8. National Safety Day Was Started By

- A.** National Safety Council
- B.** National Security Council
- C.** National Defence Council
- D.** National Society Council

ANSWER: A

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

- A. Brigadier
- B. Lt. Gen
- C. Captain
- D. Major General

ANSWER: A

10. International Maritime Organisation (IMO) Hq Is At

- A. London, United Kingdom
- B. Vienna, Austria
- C. Paris, France
- D. Geneva, Switzerland

ANSWER: A

11. Chairman Of The Appointments Committee of the Cabinet(ACC) Is

- A. PM
- B. NSA
- C. CDS
- D. Home Minister

ANSWER: A

12. ___ Is The Largest Defense Contractors in the World.

- A. Lockheed Martin
- B. Boeing
- C. Raytheon Technologies
- D. None of the above

ANSWER: A

13. "If you win, you need not have to explain...If you lose, you should not be there to explain!" Said By__

- A. Winston Churchill
- B. Adolf Hitler
- C. Subhas Chandra Bose
- D. Bhagat Singh

ANSWER: B

14. Tripoli Is The Capital Of

- A. Libya
- B. Liechtenstein
- C. Lithuania
- D. Maldives

ANSWER: A

15. "Deep Shikha" Book Is Written By

- A. Narendra Modi
- B. Sitaram Yechuri
- C. Mahadevi Verma
- D. Dante

ANSWER: C

16. Which Is Not A Member Of BIMSTEC?

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

ANSWER: D

17. National Crime Records Bureau Was Set up In

- A. 1986
- B. 1987
- C. 1988
- D. 1989

ANSWER: A

18. Commodore Rank Of Indian Navy Is Equivalent To Which Rank Of Indian Army?

- A. Brigadier
- B. Lt. Gen
- C. Captain
- D. Major General

ANSWER: A

19. CISF Comes Under

- A. MEA
- B. MHA
- C. MoD
- D. None of the above

ANSWER: B

20. PROCEDURE FOR IMPEACHMENT OF THE PRESIDENT

- A. ARTICLE 61
- B. ARTICLE 60
- C. ARTICLE 59
- D. ARTICLE 58

ANSWER: A

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