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Defence Current Affairs

15 December 2022

Roscosmos Is Going To Supply 10 Rocket Engines To India

- Roscosmos State Corporation is studying the issue of sending ten RD-191 rocket engines to India in 2024-2029. The deliveries will provide “very significant off-budget sources of funding for the development of the already domestic space program.” This was announced by the Deputy General Director for the implementation of state powers of the state corporation Valery Sherin.
- “In the period from 2024 to 2029, we are considering the possibility of supplying about ten RD-191 rocket engines manufactured by NPO Energomash,” Mr. Sherin said at an expanded meeting of the Federation Council Committee on Economic Policy (quoted by RBC).
- In July 2019, India’s plans to receive Russian rocket engines for the national space program were announced by Yuri Borisov, who then held the post of Deputy Prime Minister of the Russian Federation. Mr. Borisov did not name the engine type. Vedomosti, citing top managers of defense industry enterprises, reported that the engines could be liquid-propellant RD-180s manufactured by Energomash. Later, the head of the company, Igor Arbusov, told RBC that the NPO was discussing with Indian representatives the development of cooperation in the field of engine building.
- RD-191 is a single-chamber liquid-propellant rocket engine that runs on non-toxic components. The engine was developed for the Angara family of Russian launch vehicles. RD-180 is a two-chamber closed-cycle liquid-propellant rocket engine used in the Atlas-5 launch vehicle.



Exercise “KAZIND – 2022”

- The 6th Edition of Indo - Kazakhstan joint training exercise “KAZIND-22” is scheduled to be conducted at Umroi (Meghalaya) from 15 to 28 December 2022. Joint annual training exercise with the Kazakhstan Army was instituted in 2016 as Exercise Prabal Dostyk, which was later upgraded to a company level exercise and renamed as Ex Kazind in 2018.
- Kazakhstan Army soldiers comprising of troops from the Regional Command, South and Indian Army soldiers from the 11 Gorkha Rifles will be participating in the exercise.
- Aim of the exercise is to build positive military relations, imbibe each other’s best practices and promote the ability to operate together while undertaking counter terrorist operations in semi urban / jungle scenario, under a UN peace enforcement mandate.
- The scope of this exercise involves a Command Post Exercise (CPX) at the Battalion level and Company level Field Training Exercise (FTX) on sub-conventional operations. During the exercise, participants will engage in variety of missions ranging from joint planning, joint tactical drills, basics of special arms skills, HADR and raiding a hostile target.

- “Exercise KAZIND” will enhance the level of defence cooperation between Indian Army and Kazakhstan Army which will further foster the bilateral relations between the two nations.



20 New Nuclear Power Plants To Be Commissioned In Country By 2031

- India plans to commission 20 nuclear power plants by 2031, adding nearly 15,000 MW in power generating capacity, the gov told the Lok Sabha on Wednesday. The first of these 20 nuclear power plants, a 700 MW unit, is expected to be commissioned in 2023 at Kakrapar in Gujarat, which already has three atomic power generating units operational.
- According to a written reply by Minister of State in the PMO Jitendra Singh, the 500 MW Prototype Fast Breeder Reactor at Kalpakkam is likely to be operational in 2024, followed by two 1,000 MW units at Kudankulam in 2025.
- Two 700 MW units at Rawatbhata in Rajasthan are likely to be completed by 2026, while another two 1,000 MW units are likely to be completed at Kudankulam by 2027, he said.
- Two 700 MW units are expected to be completed at Gorakhpur in Haryana by 2029, the minister said listing out details of projects under consideration.
- In addition, gov had accorded administrative approvals and financial sanctions for building 10 atomic power units of 700 MW each at Gorakhpur, Haryana (units 3&4), Kaiga, Karnataka (units 5&6), Chutka, Madhya Pradesh (units 1&2) and four units at Mahi Banswara in Rajasthan.



1st Quad HADR Meeting & Table Top Exercise

- The first Quad Humanitarian Assistance and Disaster Relief (HADR) meeting and TableTop Exercise was inaugurated by Quad Sherpas and senior officials in the national capital on December 13, according to the External Affairs Ministry.
- The Foreign Ministry spokesperson Arindam Bagchi in a tweet stated that multiagency teams from India, Japan, the United States and Australia discussed how they can deliver a coordinated and effective response to future HADR events in the Indo-Pacific region.
- US Deputy Secretary of State Wendy Sherman and Australia's Quad Sherpa Scott Dewar virtually participated in the meeting.
- In response to Arindam Bagchi's tweet, Japan's Ministry of Foreign Affairs in a tweet said, "Following the first biannual meeting, a Table-top exercise for Quad HADR Partnership was held under India's chair in New Delhi."
- On September 23, the foreign ministers of Australia, India and Japan and the Secretary of State of the United States held a meeting in New York. The leaders from four nations signed into operation the guidelines for the 'Quad Partnership on Humanitarian Assistance and Disaster Relief (HADR) in the Indo-Pacific.' The HADR mechanism was announced by Quad leaders in Tokyo in May.
- The partnership has been announced as part of a shared vision for a "free and open Indo-Pacific that is inclusive and resilient," the US State Department said in a press release. The signing of these guidelines demonstrates a significant moment in Quad's cooperation.



The Philippines Starts Getting Brahmos Units From India

- According to a Philippine Military channel " DA-REAL ", The Philippine Navy's Marine Corps has started getting systems that are part of the BrahMos coastal-based anti-ship missile systems that were ordered by the Philippines.
- The Philippines earlier this year signed a **\$374.96-million** deal with BrahMos Aerospace Private Ltd . for the supply of a shore-based anti-ship variant of the BrahMos supersonic cruise missile. This is the first export order for the missile, a joint product of India and Russia.
- The first deliveries of the BrahMos supersonic cruise missiles to the Philippines will begin in 2023.
- The BrahMos is a medium-range stealth ramjet supersonic cruise missile that can be launched from submarine, ships, airplanes or land, notably being the fastest supersonic cruise missile in the world at the time of introducing.
- Manufacturer: BrahMos Aerospace Limited
- Engine: 1st Stage: Solid Rocket Booster; 2nd Stage: Liquid Rocket Ramjet;
- Warhead: 200 kg (440 lb) — 300 kg (660 lb) Conventional Semi-Armour-piercing; Nuclear Warhead
- Length: 8.4 m (28 ft); 6 m (20 ft)(BrahMos-NG)
- Unit cost: US\$5 million
- Accuracy: 1 m CEP
- Variants: Ship-launched; Land-launched; Submarine-launched; Airplane-launched; BrahMos-II; BrahMos-NG; BrahMos-ER



SSBCrack

REVIEW QUESTIONS

EXAMS

1. __ Edition of Indo - Kazakhstan joint training exercise "KAZIND-22" Is Commenced.

- A. 3rd
- B. 4th
- C. 5th
- D. 6th

ANSWER: D

2. The 6th Edition of Ex "KAZIND-22" Is Scheduled To Be Conducted At

- A. Pune
- B. Umroi
- C. Kochi
- D. Avadi

ANSWER: B

3. 1st Quad HADR Meeting & TableTop Ex Inaugurated By Quad Sherpas & Senior Officials In__.

- A. New Delhi
- B. New York
- C. Tokyo
- D. Canberra

ANSWER: A

4. The __ Earlier This Year Signed a \$374.96-Million Deal With Brahmos Aerospace Private Ltd.

- A. Indonesia
- B. Philippines
- C. USA
- D. Taiwan

ANSWER: B

5. Kakrapar Nuclear Power Plant Is Located At

- A. T.N.
- B. M.H.
- C. Kerala
- D. Gujrat

ANSWER: D

6. 'Iron Beam' new laser-based air defence system Made By

- A. USA
- B. UK
- C. Israel
- D. Russia

ANSWER: C

7. Selection Centre South (SCS) Is In

- A. Mumbai
- B. Kochi
- C. Chennai
- D. Bangalore

ANSWER: D

8. Mechanical Training Institute (MTI) Of IAF Is In

- A. Yelahanka, Bengaluru**

- B. Jalahalli, Bengaluru
- C. Tambaram Chennai
- D. None of the above

ANSWER: C

9. Havildar Achinta Sheuli is related with

- A. Archery
- B. Weightlifting
- C. Judo
- D. Football

ANSWER: B

10. Ex SHAKTI, Ex VARUNA, GARUDA India conducted with

- A. USA
- B. Sweden
- C. France
- D. None of the above

ANSWER: C

11. Siachen Conflict B/W India And Pakistan Held In

- A. 1983
- B. 1984
- C. 1985
- D. 1986

ANSWER: B

12. India Purchased Sig Sauer Assault Rifles From

- A. USA
- B. Sweden
- C. France
- D. None of the above

ANSWER: A

13. Hq of REGIMENTS UNDER CORPS OF ENGINEERS Is In

- A. New Delhi
- B. Mumbai
- C. Jabalpur
- D. None of the above

ANSWER: A

14. Bishkek Is The Capital Of

- A. Kyrgyzstan
- B. Kosovo
- C. UAE
- D. Kazakhstan

ANSWER: A

15. "God Save the Hon'ble Supreme Court" Book Is Written By

- A. Nasim Sehra
- B. Sangeeta Ghosh
- C. Sumana Roy
- D. Fali S Nariman

ANSWER: D

16. Commander rank of Indian Navy is equivalent to rank of IAF is

- A. Wing Commander
- B. Squadron Leader
- C. Group Captain
- D. Flying Officer

ANSWER: A

17. War cry of the BIHAR REGIMENT

- A. Parakramo Vijayate
- B. Rhino Charge
- C. Jai Bajrangbali
- D. Duty, Honour, courage

ANSWER: C

18. INS Baaz airport located in

- A. Bihar
- B. Daman and Diu
- C. Andaman and Nicobar Islands
- D. Chandigarh

ANSWER: C

19. The Jawahar Tunnel Was Constructed Under Pass?

- A. Shipki La

- B. Banihal Pass
- C. Bara Lacha La
- D. Rohatang Pass

ANSWER: B

20. Mundra Port Is In

- A. M.H.
- B. Kerala
- C. UP
- D. Gujrat

ANSWER: D

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