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Indian Army Yearly Review 2022 Part-2

Lt Gen Virendra Vats Assumed The Appointment Of Commandant Of DSSC

- Lt Gen Virendra Vats assumed the appointment of Commandant, Defence Services Staff College, Wellington on September 01, 2022. On taking over reins of the historic tri-services institution, he complimented the faculty & staff for excellent standards of training & administration.
- The DSSC is a defence service training institution of the Ministry of Defence, Government of India.
- It trains officers of all three services of the Indian Armed Forces – (Indian Military Service, Indian Naval Service, IAF Service), selected officers from the Paramilitary forces and the Civil Services and officers from friendly foreign countries for command and staff appointments.
- From modest beginnings in 1947, the College today boasts of a well earned global reputation and many laurels for excellence. Being one of the earliest institutions of its kind in the entire world to provide, under one roof, training to officers of the Army, the Navy and the Air Force, along with officers of the civil services, DSSC has acquired an enviable Reputation both at home and abroad for its pursuit of academic excellence. Situated in the lap of salubrious Nilgiris and surrounded by innumerable tea plantations and flora of all kinds, DSSC stands tall as an epitome of Indian military proficiency.



BSF Gets New Indian Made Anti-drone Guns

- The Border Security Force has deployed anti-drone guns in the Punjab region of India and Jammu intending to detect and stop drones nearing the border. There have been at least 200 sightings of drones in the past two years.
- Border security Force is procuring both handheld and mobile guns that can be fixed on a vehicle roof that are currently being tested. The National Technical Research Organisation is currently studying the frequency drones use to contact their controllers so they can be jammed.
- Anti-drone technology system provided for both 'soft-kill' and 'hard-kill' options. It has the capability to both detect and destroy drones in the air. The system can detect and jam drones from up to 3 km and by using a laser, it can bring down a target from up to 2 km depending on the wattage of the laser weapon. It has a radar detection range of 4km, a jamming range of more than 2km and a kill range of more than a kilometer.
- The BSF guards 198 km of the 553-km-long international border and LoC with Pakistan.



ISRO Demonstrates New Technology

- ISRO successfully demonstrated a new technology with Inflatable Aerodynamic Decelerator that it said is a game-changer with multiple applications for future missions including to Mars and Venus.
- An IAD, designed and developed by ISRO's Vikram Sarabhai Space Centre, was successfully test flown, on Saturday, in a 'Rohini' sounding rocket from Thumba Equatorial Rocket Launching Station.
- At around 84 km altitude, the IAD was inflated and it descended through atmosphere with the payload part of sounding rocket. The pneumatic system for inflation was developed by ISRO's Liquid Propulsion Systems Centre (LPSC).



India-Japan 2+2 Ministerial Dialogue In Tokyo

- The Defence and Foreign ministers of India and Japan held the second 2+2 ministerial where they had a discussion on the regional and global issues of mutual interests and concerns, particularly those in the Indo-Pacific as well as Ukraine.
- The Ministers highlighted their commitment to a common strategic goal of achieving a free and open Indo-Pacific, that is inclusive and resilient, based on the rule of law and free from coercion.
- They also reiterated their strong support for ASEAN's unity and centrality and their full support for the "ASEAN Outlook on the Indo-Pacific (AOIP)" which upholds the principles such as the rule of law, openness, freedom, transparency and inclusiveness.
- The Ministers welcomed the participation of Japan for the first time in the multilateral exercise MILAN. The Ministers expressed their commitment to continuing bilateral and multilateral exercises including "Dharma Guardian", JIMEX and "Malabar."



DRDO & Indian Army Successfully Conducted Six Flight-tests of QRSM

- DRDO and Indian Army have successfully completed six flight-tests of Quick Reaction Surface to Air Missile (QRSAM) system from Integrated Test Range (ITR) Chandipur off the Odisha coast. The flight tests were conducted as part of evaluation trials by the Indian Army.
- The performance of the system has been confirmed from the data captured by a number of Range instruments like Telemetry, Radar and Electro Optical Tracking Systems deployed by ITR. Senior officials from DRDO and the Indian Army participated in the launches.
- During these tests, all the mission objectives were met establishing pin-point accuracy of the weapon system with state-of-the-art guidance and control algorithms including warhead chain. The performance of the system has been confirmed from the data captured by a number of Range instruments like Telemetry, Radar and Electro Optical Tracking Systems (EOTS) deployed by ITR. Senior officials from DRDO and the Indian Army participated in the launches.
- These tests were conducted in the final deployment configuration consisting of all indigenously-developed sub-systems, including the missile with indigenous Radio Frequency (RF) seeker, mobile launcher, fully automated command and control system, surveillance and multi-function Radars. The uniqueness of the QRSAM weapon system is that it can operate on the move with search and track capability & fire on short halt. This has been proven during the mobility trials conducted earlier.
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- Raksha Mantri Shri Rajnath Singh has complimented DRDO and Indian Army on the successful flight trials. He exuded confidence that the QRSAM weapon system will be an excellent force multiplier for the Armed Forces.
-
- Secretary, Department of Defence R&D and Chairman DRDO has congratulated the teams associated with the successful series of trials and said that the system is now ready for induction into the Indian Army.



Iran Signs Formal MoU To Join SCO

- Iran has signed a memorandum of commitment to join the SCO, giving a boost to India's focus on an inclusive connectivity agenda in the Eurasian region that would function parallel to China's Belt and Road Initiative. Iran will attend the SCO as a full member from the Summit to be hosted by India in 2023.
- Iran's entry into the SCO will boost India's Eurasian outreach ensuring seamless coordination between India and Iran and Eurasian states besides Russia. India also maintains that entry of Iranian oil into the market will address global energy security to some extent.
- Ahead of the SCO Summit, there has been a flurry of engagements between New Delhi and Tehran with a focus on strengthening connectivity mechanisms, especially the International North–South Transport Corridor (INSTC) and Chabahar Port.
- A successful training launch of a Short-Range Ballistic Missile, Prithvi-II was carried out on June 15, 2022 at approximately 1930 hrs from the Integrated Test Range, Chandipur, Odisha. The missile is a proven system and is capable of striking targets with a very high degree of precision.
- **Agni:** India carried out a successful training launch of Intermediate Range Ballistic Missile, Agni-3 from APJ Abdul Kalam Island, Odisha in November. It was part of routine user training launches carried out under the aegis of the Strategic Forces Command.

- **Agni:** The launch was carried out for a predetermined range and validated all operational parameters of the system. Earlier, in June, a successful training launch Agni-4 was carried out.
- **Helina:** In April, indigenously-developed helicopter launched Anti-Tank Guided Missile 'HELINA' was successfully flight tested twice at different high-altitude ranges as part of user validation trials. The flight-tests were jointly conducted by DRDO, Indian Army and IAF. The flight trials were conducted from an ALH and the missile was fired successfully engaging simulated tank target.
- **Laser-Guided Anti-Tank Guided Missile:** Indigenously developed Laser-Guided Anti-Tank Guided Missiles (ATGM) were successfully test-fired from MBT Arjun by DRDO and Indian Army at KK Ranges with support of Armoured Corps Centre & School (ACC&S) Ahmednagar in Maharashtra on August 04, 2022.
- The all-indigenous Laser Guided ATGM employs a tandem High Explosive Anti-Tank (HEAT) warhead to defeat Explosive Reactive Armour protected armoured vehicles. The ATGM has been developed with multi-platform launch capability and is currently undergoing technical evaluation trials from 120 mm rifled gun of MBT Arjun.
- **Quick Reaction Surface to Air Missile:** Defence Research and Development Organisation (DRDO) and Indian Army have successfully completed six flight-tests of Quick Reaction Surface to Air Missile (QRSAM) system from Integrated Test Range (ITR) Chandipur off the Odisha coast.
- **Man Portable Anti-Tank Guided Missile:** DRDO successfully flight tested the final deliverable configuration of MPATGM on January 11, 2022. The indigenously developed anti-tank missile is a low weight, fire & forget missile and is launched from a man portable launcher, integrated with thermal sight.
- The missile impacted the designated target and destroyed it. The final impact event was captured on camera and the test has validated the minimum range successfully.



Siachen Glacier, The World's Highest Battlefield Gets Satellite Broadband For Troops

- The Indian Army has achieved a great success in the world's highest battlefield i.e. Siachen. Due to the unprecedented move of the Indian Army's Fire and Fury Corps Siachen Signalers, now the world's highest battlefield i.e., Siachen Glacier will also have internet facility.
- Siachen Signalers have activated satellite-based internet service on the Siachen Glacier (19,061 ft), the world's highest battlefield.
- It is worth noting that the Indian Army's **Fire and Fury Corps** Siachen Signalers is responsible for security in the world's highest battlefield Siachen.



Defence Manufacturer Saab To Produce Carl-Gustaf M4 Weapons System In India

- Swedish defence products company Saab will manufacture its Carl-Gustaf M4 weapons system in India. According to Gorgen Johansson, Senior Vice President at Saab, production in its new facility in India is expected to start in 2024. However, he declined to provide detail on the investment that the company is likely to make in the facility.
- The new facility will support its production as well as components for users of the system around the world, the company said.
- The Carl-Gustaf M4 is a recoilless rifle that has been ordered by the Indian armed forces. There's been an increased interest in the weapon system, which can be used against tanks, since the conflict in Ukraine.
- "The Carl-Gustaf M4 can be fitted with a wide range of sights to ensure maximum effect in any tactical situation and flexibility for the user. The system is attached with standard clip-on telescopic sight, with additional options, including open sight, red dot sight and advanced fire control devices, available.



Army Aviation Inducts 1st Indigenous LCH

- The Indian Army formally inducted the indigenous LCH. The first LCH was formally received by DG Army Aviation Lt Gen A. K. Suri from HAL in Bengaluru.

- The Army raised its first LCH Unit on June 01, 2022, in Bengaluru to prepare for the induction. As reported by The Hindu earlier, the Unit will move to the Eastern Command along the LAC on completion next year.
- The Army plans to acquire 95 LCH of which seven units, each having 10 helicopters, are to be deployed for combat role in mountains.
- Weight: 2,250 kg
- Top speed: 268 km/h
- Length: 16 m
- Range: 700 km
- Unit cost: 17,480,000–17,480,000 USD
- Engine type: Safran Ardiden
- Manufacturer: Hindustan Aeronautics Limited



Military Nursing Service Celebrates Its 97th Raising Day

- With commemorating the illustrious stories of courage, compassion and care, MNS celebrated its 97th Raising Day on 01 Oct 2022.

- To commemorate the occasion, Major General Smita Devrani, Additional DG of MNS laid wreaths at the National War Memorial and paid tributes to medical personnel who have made the supreme sacrifice in the line of duty.
- MNS is the only all women corps of the Armed Forces dating back to the year 1888, the first batch of 10 qualified British nurses arrived in Bombay to organize nursing in the military hospitals in India. It was designated as Indian Army Nursing Services in 1893 and Queen Alexandria MNS of India (QAMNS {I}) in 1902.



SSBCrack
EXAMS

Paramilitary Force, Border Police Force Get New Chiefs

- Senior Indian Police Service (IPS) officers Sujoy Lal Thaosen and Anish Dayal Singh have been appointed as the new Director Generals of the CRPF and ITBP respectively, a government order said.
- Sujoy Lal Thaosen, a 1988-batch officer of the Madhya Pradesh cadre, is currently working as the director general (DG) of the border guarding force Sashastra Seema Bal (SSB) and holding the additional charge of the Indo-Tibetan Border Police.
- Thaosen is scheduled to retire in November next year, while Singh will superannuate in December, 2024.
- The order for their appointment was issued by the Personnel Ministry after sanction from the Appointments Committee of the Cabinet (ACC) headed by the prime minister.

- The CRPF is the country's largest paramilitary with an estimated strength of about 3.25 lakh personnel. It is designated as the lead internal security force with its main operational theatres being Left Wing Extremism-affected states, counter-terrorist combat in the Kashmir valley, and counter-insurgency operations in the north east.
- The ITBP is primarily tasked to guard the 3,488 km stretch of the Line of Actual Control (LAC) with China apart from rendering a variety of duties in the internal security domain of the country.
- The SSB is the border force that guards fenceless Indian borders with Nepal and Bhutan.



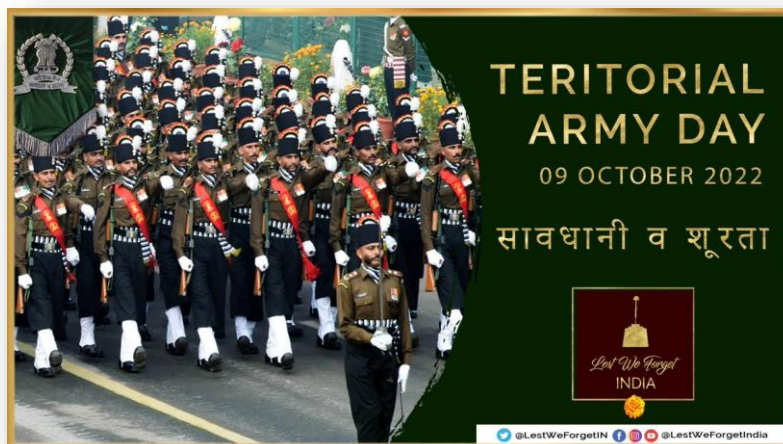
DRDO Tests 3 Unmanned Remote-controlled Weaponised Boats In Pune

- Ahead of the premier defence exhibition DefExpo-2022, DRDO officials in Maharashtra tested three remotely unmanned, weaponised boats in Pune on Thursday. These three remote-controlled armed boats were tested with no man on the vessel.
- While talking to the media after testing three boats, DRDO R&D Establishment Group Director PM Naik said, “With no human on the vessel, the video feed will be transferred to the ground control station. It will be useful for surveillance.”
- Moreover, the boats have an endurance of about four hours and currently they can sail at a maximum speed of 10 nautical miles/hour and this can be further increased to 25 nautical miles. Some variants of these boats use an electric propulsion system with lithium batteries, while others have a petrol engine on board.



73rd Raising Day Of Territorial Army

- The 73rd Raising Day of TA was celebrated across the country on 09 Oct 2022 to commemorate its raising by the first Governor General Shri C Rajagopalachari on this day in 1949.
- Lieutenant General Preet Mohindera Singh, Director General of Territorial Army (TA) paid tribute to the fallen heroes of the Territorial Army by laying a wreath at the National War Memorial.
- The Territorial Army has a number of Infantry and Engineer units affiliated to various regiments of the Indian Army, apart from 'Home and Hearth' battalions based on the concept of 'Sons of Soil'.



Trishakti Corps of the Indian Army Conducts An Integrated Exercise At 17,500 Feet In North Sikkim

- The Indian Army's Trishakti Corps (XXXIII Corps) conducted an integrated exercise called 'SINGHEE PRAHAAR' in a high-altitude area of 17,500 feet in North Sikkim on Sunday, October 9.
- The battlefield scenario has changed even in high-altitude areas like North Sikkim, thanks to the infusion of technology and increasing lethality and ranges of weapon platforms available.
- According to reports, future battles are likely to be swift, intense, and under extreme battlefield transparency and digitised environment, despite being dizzy between 17,000 feet and 22,000 feet, at subzero temperatures, and lack of oxygen.



38th Raising Day of National Security Guard

- General Manoj Pande COAS and All Ranks of Indian Army convey best wishes to All Ranks, Veterans & Families of National Security Guard NSG on the occasion of 38th Raising Day.
- The NSG is a Federal Contingency force to deal with anti-terrorist activities. The NSG is a force equipped and trained to deal with the specific situation and is therefore used in exceptional circumstances to thwart serious acts of terrorism.
- It was established in 1984, NSG is popularly known as the Black Cats. It is an elite striking force in the country trained and equipped to handle situations like a terrorist attack, hijacking, and hostage captivity.

- **Headquarters:** New Delhi
- **Minister responsible:** Amit Shah, Ministry of Home Affairs
- **Agency executive:** M A Ganapathy IPS, Director General of NSG
- **Parent agency:** Ministry of Home Affairs



India-Russia Joint Venture Hopes For \$5 Bn In Supersonic Missile Exports By 2025

- India has made Russian MiG fighter planes and Su-30 jets under licence and the two have collaborated to make BrahMos missiles in India. Russia has also traditionally been India's main arms supplier.
- "Prime Minister Narendra Modi has given a target of achieving \$5 billion (in defence exports) by 2025. I hope BrahMos themselves will be able to reach the \$5 billion target by 2025".
- The joint venture, with a 50.5% Indian and 49.5% Russian partnership, fits into Prime Minister Narendra Modi's flagship make-in-India programme.
- India has made Russian MiG fighter planes and Su-30 jets under licence and the two have collaborated to make BrahMos missiles in India. Russia has also traditionally been India's main arms supplier.
- In April last year, Russia's Foreign Minister Sergei Lavrov had said the two countries were discussing "additional" production of Russian military equipment in India.



Armenia To Get Pinaka Rockets, Nigeria, Indonesia Too Shown Interest

- Indian defence firm Solar group on Tuesday said they had bagged orders from Armenia for the Pinaka rockets manufactured indigenously.
- "The life and range of upgraded Pinaka rocket launchers are more than their previous version despite the price being almost the same. We have received an export order from Armenia which is to be completed within two years," Solar Group chairman Satyanarayan Nuwal said.
- India had earlier tasted success in the export sector in Armenia when it transferred the indigenously developed Swathi weapon locating radar to that country. Pinaka has also received a boost from its own orders from the Indian Army which is looking at inducting a large number of regiments of these rockets under the artillery.



The 90th INTERPOL General Assembly

- Amit Shah addressed the concluding session of the 90th INTERPOL General Assembly in New Delhi. Several dignitaries including the Chairman, INTERPOL and the Director, CBI were present on the occasion.
- Amit Shah said that 21st October is very important day for the Indian Police and India celebrates this day as **Police Commemoration Day**. He said 35,000 policemen have made the supreme sacrifice for the securing India's unity and democracy and Indians pay tribute to these immortal martyrs on this day.
- In the last 100 years, INTERPOL has become a comprehensive and effective forum of 195 countries, which is playing a vital role in cracking down on crimes around the world. Shri Shah said India is one of the oldest members of INTERPOL and India has been associated with INTERPOL since 1949.
- On the occasion of the 75th anniversary of India's independence, Prime Minister Narendra Modi has put forward his vision of a drugs free India.
- Given challenges such as the emerging trends of global trade in narcotics, and narco terror, close cooperation is needed between all countries,
- Such as
 - Platforms for the exchange of information and intelligence
 - Intelligence based joint campaigns
 - Regional maritime security cooperation
 - Mutual legal assistance
 - An effective mechanism to fight money laundering.



Indian Army Celebrates 76th Infantry Day

- Infantry Day is commemorated on 27 October every year to acknowledge the contributions of Infantry, the largest fighting arm of the Indian Army. This day has a unique significance for the Nation, as it was on this day in 1947 that Infantry-men from the Indian Army became the first troops to land at Srinagar airport.
- As part of the Infantry Day celebrations of 2022, a 'Wreath Laying' ceremony was organised at the National War Memorial today to honour the heroes of Infantry, who made the supreme sacrifice in service of the Nation. Gen Anil Chauhan, Lt Gen BS Raju, laid wreaths on this solemn occasion.



The President Of India Presents Silver Trumpet & Trumpet Banner to the PBG

- The President of India, Smt Droupadi Murmu, presented the Silver Trumpet and Trumpet Banner to the President's Bodyguard (PBG) at a ceremony held at Rashtrapati Bhavan (October 27, 2022).
- The President congratulated the Commandant, Officers, JCOs and Other Ranks of the PBG for the remarkable display of parade, maintenance of well groomed horses and the impressive ceremonial attire.
- She said that this event is even more special as the President's Bodyguard is celebrating 250 years of its Raising which is coinciding with 'Azadi Ka Amrit Mahotsav' being celebrated across the country.



ISRO Is Ramping Up Its Efforts To Build Its Own Space Station By 2035

- As India eyes setting up its own space station by 2035, the ISRO has proposed to the industry to collaborate with it in developing a reusable rocket capable of carrying heavier payloads into orbit.

- Dubbed as the Next-Generation Launch Vehicle (NGLV), ISRO Chairman S Somanath said the space agency was working on the design of the rocket and would like the industry to collaborate with it in the development.
- “The intent is to bring industry along in the development process. All the money need not be invested by us. We want the industry to invest to create this rocket for all of us,” Somanath told PTI here. He said the rocket is planned to carry a 10-tonne payload in the Geostationary Transfer Orbit or 20 tonnes to the low earth orbit.
- “The intent is to bring industry along in the development process. All the money need not be invested by us. We want the industry to invest to create this rocket for all of us,” Somanath told PTI here. He said the rocket is planned to carry a 10-tonne payload in the Geostationary Transfer Orbit or 20 tonnes to the low earth orbit.



DRDO Conducts Successful Maiden Flight-test of Phase-II Ballistic Missile Defence interceptor

- DRDO conducted a successful maiden flight-test of Phase-II Ballistic Missile Defence interceptor AD-1 missile with large kill altitude bracket from APJ Abdul Kalam Island off the coast of Odisha on November 02, 2022. The flight-test was carried out with participation of all BMD weapon system elements located at different geographical locations.
- The AD-1 is a long-range interceptor missile designed for both low exo-atmospheric and endo-atmospheric interception of long-range ballistic missiles as well as aircraft. It is propelled by a two-stage solid motor and equipped with

indigenously-developed advanced control system, navigation and guidance algorithm to precisely guide the vehicle to the target.



In a First, ISRO Supplies Rocket System to Support a Private Launch Vehicle

- The ISRO has for the first time supplied a rocket system to support a private launch vehicle built in the country. Chennai-based space technology startup Agnikul Cosmos received its first flight termination system (FTS) on November 7 from ISRO.
- With the support of IN-SPACe (Indian National Space Promotion and Authorisation Centre), a single-window autonomous government agency to promote, permit, and oversee private sector space-based activities.
- “This also marks the first time that a system that has been used for ISRO’s vehicles is being supplied for supporting a private launch vehicle built in India. The package will be used for their fully controlled sub-orbital launcher, scheduled to launch from SDSC SHAR, Sriharikota,” it said.



AgniKul Cosmos @AgnikulCosmos · 8m

Humbled to have rec'd @isro 's FTS packages to help us on flight safety in our 1st mission- a controlled flight tracking a predetermined trajectory. This is a significant step in getting ready for launch from ISRO's launchpads. Grateful to @INSPACeIND for their support throughout



DRDO Operationalised First Avalanche Radar In North-East Himalaya

- DRDO has successfully installed an Avalanche Radar, which is claimed to be a first of its kind in India. The radar is capable of monitoring critical avalanche prone slopes even during inclement weather.
- Defence Geoinformatics Research Establishment (DGRE), Chandigarh led the research initiative to develop critical technologies for enhancing combat effectiveness and safe movement of troops in all kinds of terrain with a focus on avalanches and landslides.
- DGRE also collaborated with 33 Corps of the Indian Army to jointly conduct the installation and launch of the state-of-the-art Doppler Avalanche Radar at an altitude of 15000 ft in North Sikkim region. As per the information from DGRE, it involved an Indian Industry partner.



First Private Launchpad & Mission Control Center Established In ISRO Campus At SDSC, SHAR

- A private launchpad and mission control center is established within the ISRO campus at Satish Dhawan Space Center, SHAR, Sriharikota, for the first time. The launchpad is designed and operated by a private company, an Indian space-tech start-up, Agnikul.
- The facility was inaugurated on November 25, 2022, by S. Somanath, Chairman, ISRO & Secretary, Department of Space. S. Somanath expressed pleasure over the establishment of the first private launch pad in the country and endorsed that, now, India can travel to space from one more space platform.
- Agnikul Cosmos Private Limited is a Chennai-based start-up incubated at the Indian Institute of Technology, Madras (IIT Madras). It was founded in 2017 by Srinath Ravichandran, Moin SPM & Prof. SR Chakravarthy (from IIT Madras). Agnikul aims to make space accessible and affordable.



Agni Warrior with Singapore Armed Forces Concluded

- The 12th Edition of Exercise Agni Warrior, a bilateral exercise between the Singapore & Indian Army, which commenced on 13 November 2022 concluded at Field Firing Ranges, Devlali (M.H.) on 30 November 2022. Exercise Agni Warrior, involved showcasing joint firepower planning, execution and use of New Generation Equipment by the Artillery arm of both armies.

- Exercise also included participation by both sides in a joint computer war-game as part of joint planning process. Both sides utilised niche technology and Artillery Observation Simulators as part of joint training phase. Expert academic discussions were conducted on modern trends in Artillery and refinement of Artillery planning process.



Idukki Airstrip Getting Ready; Trial Landing Of Aircraft Carried Out

- The National Cadet Corps' (NCC) first and only airstrip in the country is getting ready to receive small aircrafts for the training purpose of its air wing cadets. A successful trial landing of a two-seater Virus SW-80 aircraft was carried out at the airstrip built in this hill district on Thursday.
- After the successful trial run, the officials said a necessary report will be submitted to the authorities and based on it they will take further decisions on commencing the training for NCC air wing cadets.
- Construction of a 650-metre-long runway, a hangar for parking four small aircraft and a training facility for 50 cadets including accommodation has already been completed. The completion of the airstrip has given wings to the dreams of the hill district prone to ecological disasters.



58th Raising Day Of Border Security Force

- India's first line of Defence, the Border Security Force (BSF) is celebrated its 58th Raising Day (December 1). The force defends the international border along with Pakistan and Bangladesh.
- The BSF's first sector of the Punjab Frontier was established on December 1st, 1965, with Jalandhar serving as its administrative centre.
- The BSF is the only Central Armed Police Force in the country, aside from the Indian Army, to have a separate air wing, a capable artillery regiment, a dedicated marine division, and a special intelligence department.



India's First Open-Source Satellite 'InQube' To Be Launched This Month

- Onkar Batra, a 12th-standard student at BSF Senior Secondary School Jammu who has added another feather as India's first open-source satellite 'InQube' developed by him is going to be launched this month with the help of Indian Space Agency- ISRO.
- InQube was prepared under the banner of Paradox Sonic Space Research Agency. This satellite was prepared under the banner of Paradox Sonic Space Research Agency and is going to be launched this month with the help of ISRO.
- In India, the cost for its launch is Rs 20-80 lakhs, while in foreign countries this price goes into crores. He said that every satellite launched into space has a special mission.



EX SKYWAVE 2022

- Signal Units of Rising Star Corps successfully carried out EX SKYWAVE, a High Frequency Radio Communications Exercise to validate communications over long ranges by integrated training of Command, Control & Air Defence related communications.in
- 9 Corps (IX Corps), also known as Rising Star Corps was raised in 2005 and is Indian Army's youngest corps.
- **Headquarters:** Dharamshala
- **Founded:** 2005
- **Part of:** Army Western Command
- **Current commander:** Lieutenant General Pushendra Singh
- **Parent organization:** Western Command



Country's First Infantry Museum To Be Inaugurated In Mhow

- The country's first infantry museum inaugurated in Mhow cantonment in Indore district of Madhya Pradesh on December 16. Final preparations are underway in Mhow cantonment for the inauguration of the Infantry Research Centre and Museum.
- The museum inaugurated on December 16 and will be thrown open to the public from December 17.
- The construction of the museum has been completed and final touches are being given to the building and the surrounding garden.
- The museum will showcase Infantry Corps' history from 1747 to 2020, in which the sacrifice of valour and valiant soldiers have been preserved in statues, murals and photo galleries.



Mopa International Airport In Goa Named After Former Defence Minister Manohar Parrikar

- The newly-inaugurated Mopa International Airport in Goa has been named after former Defence Minister Manohar Parrikar.
- With the aim of boosting air connectivity and tourism in the coastal state, PM Narendra Modi inaugurated the Mopa International Airport in Goa on Sunday.
- Developed at a cost of around **Rs 2,870 crore**, the airport is built on the theme of sustainable infrastructure. PM Modi laid the foundation stone of the airport in November 2016.
- The new international airport is located in the Northern part of Goa, about 35 km away from Panaji, the capital city of Goa.
- The in-principle approval to Goa government for setting up a greenfield airport at Mopa village was granted by the Centre in March 2000.



Night Trials Of Agni-5 Nuclear-capable Ballistic Missile

- India successfully carried out the night trials of the nuclear-capable Agni-5 ballistic missile, which can hit targets beyond 5,000 km on Thursday.
- "The test was carried out to validate new technologies and equipment on the missile which is now lighter than before. The trial has proved the capability to enhance the range of the Agni-5 missile, if required," sources said.
- Sources said the missile has been made lighter by adding lighter composite material which will enable the missile to go longer ranges. India had launched the last Agni-5 test in October 2021.
- The launch was carried out at approximately 5: 30 pm from APJ Abdul Kalam Island in Odisha.
- **Mass:**50000-56000 kg
- **Length:**17.5 m
- **Diameter:**2 meters (6 ft 7 in)
- **Warhead:** Strategic nuclear weapon
- **Warhead weight:**1,500 kilograms
- **Maximum speed:** Terminal phase: Mach 24 (29,400 km/h)



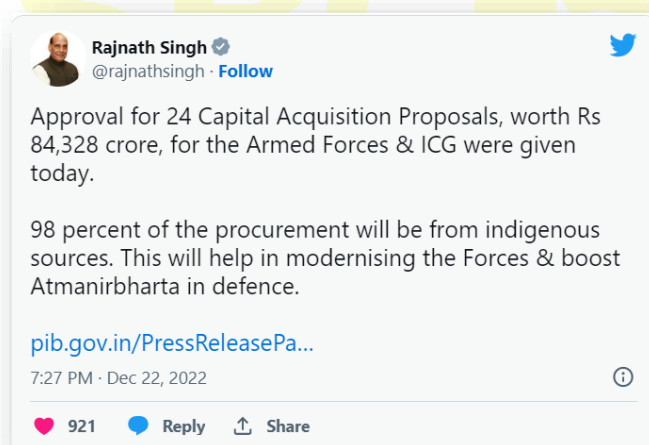
Indian Forces Acquiring 'Pralay' Ballistic Missile For Striking Targets At 150-500 Km

- Amid the ongoing conflict with China, the Indian armed forces are now going to acquire the 'Pralay' ballistic missile which can hit targets from 150 to 500 Kms.
- The proposal moved by the Indian defence forces is at an advanced stage and is scheduled to be taken up for clearance during a high-level meeting this week.
- With a range of 150 to 500 km, 'Pralay' is powered with solid propellant rocket motor and other new technologies. The missile guidance system includes state-of-the-art navigation and integrated avionics.



India Clears Defence Purchase Plan Worth Rs 84,328 Crore

- India's Defence Acquisition Council has approved proposals to acquire defence equipment, including infantry combat vehicles, light tanks and missile systems, worth Rs 84,328 crore, the defence minister Rajnath Singh said.
- Of the total, more than 97% of the procurement will be from indigenous sources.
- "The Defence Acquisition Council (DAC), headed by Rajnath Singh, has accorded approval for Acceptance of Necessity for 24 Capital Acquisition Proposals," said the defence ministry.
- These proposals include six for Indian Army, six for Indian Air Force, 10 for Indian Navy and two for Indian Coast Guard for a total value of Rs 84,328 crore, it said.
- Notably, 21 proposals worth Rs 82,127 crore (97.4%), are approved for procurement from indigenous sources.



India Assumes Wassenaar Arrangement Chairmanship On Jan 1, 2023

- Ahead of India assuming Chairmanship of Wassenaar Arrangement (WA) Plenary starting January 1, 2023, External Affairs Minister Dr S Jaishankar is visiting Austria. He will also have a meeting with the Director General of the Vienna-based International Atomic Energy Agency Rafael Mariano Grossi.

- The Wassenaar Arrangement's secretariat is located in its capital Vienna and India will hold the Chairmanship for one year. Dr Jaishankar will be on an official visit from January 1-3, 2023.
- The Wassenaar Arrangement is a voluntary export control regime. The Arrangement, formally established in July 1996, has 42 members who exchange information on transfers of conventional weapons and dual-use goods and technologies.
- It has 42 member states comprising mostly NATO (North Atlantic Treaty Organization) and EU states.
- India became a member of the Arrangement in 2017.
- Dual-use refers to the ability of a good or technology to be used for multiple purposes - usually peaceful and military.
- Wassenaar Arrangement's Secretariat is in Vienna, Austria.



REVIEW QUESTIONS

1. Defence Services Staff College Is Located At

- A. Wellington
- B. Chennai
- C. New Delhi
- D. None of the above

ANSWER: A

2. Who Assumed The Appointment Of Commandant, Defence Services Staff College?

- A. Lt Gen Virendra Vats
- B. Lt Gen Vikram Singh
- C. Rear Admiral Anil Sen
- D. None

ANSWER: A

3. Saab AB Is An Aerospace Company of

- A. USA
- B. Sweden
- C. France
- D. China

ANSWER: B

4. The Current Chairman Of DRDO Is

- A. Rakesh Sinha
- B. S. Somnath
- C. G. Sateesh Reddy
- D. Samir Kamat

ANSWER: D

5. Flight-Tests Of Quick Reaction Surface To Air Missile (QRSAM) System From

- A. Pune
- B. Puri
- C. Chennai
- D. ITR Chandipur

ANSWER: D

6. ___ becomes The First Indian To Win The Diamond League 2022 Championship Trophy At Zurich With A Throw Of 88.44 M.

- A. Annu Rani
- B. Shivpal Singh
- C. Neeraj Chopra
- D. None of the above

ANSWER: C

7. MNS Celebrated Its 97th Raising Day on

- A. 01 Oct
- B. 02 Oct
- C. 03 Oct
- D. 04 Oct

ANSWER: A

8. ___ Has Taken Over Additional Charge Of DG, Sashastra Seema Bal (SSB)?

- A. Anish Dayal Singh
- B. Subodh Kumar Jaiswal
- C. Amit Shah
- D. None of the above

ANSWER: A

9. ___ Tested 3 Unmanned Remote-controlled Weaponised Boats In Pune.

- A. CSL
- B. GSL
- C. HAL
- D. DRDO

ANSWER: D

10. Exercise 'SINGHEE PRAHAAR' Conducted By

- A. Trishakti Corps
- B. Chinar Corps
- C. White Knight Corps
- D. None

ANSWER: A

11. 90th INTERPOL General Assembly Held In

- A. New Delhi
- B. Chennai
- C. Paris
- D. New York

ANSWER: A

12. Hands Over 12 High-Speed Guard Boats To Vietnam Is Built By Which Indian Company?

- A. DRDO & ISRO
- B. DRDO & Israel Aerospace Industries
- C. L&T
- D. None of the above

ANSWER: C

13. The World's Biggest Employer of The World Is

- A. Walmart
- B. Amazon
- C. Ministry of Defence (India)
- D. Foxconn

ANSWER: C

14. ISRO Is Ramping Up Its Efforts To Build Its Own Space Station By__.

- A. 2022
- B. 2025
- C. 2027
- D. 2035

ANSWER: D

15. DRDO Conducted Maiden Flight-test Of Phase-ii Ballistic Missile Defence Interceptor AD-1 Missile From

- A. APJ Abdul Kalam Island
- B. Chennai
- C. Mumbai
- D. Kochi

ANSWER: A

16. The Theme of India's G20 Presidency Is

- A. 21st Century
- B. Vasudhaiva Kutumbakam
- C. Make In India
- D. Save Earth

ANSWER: B

17. __ Became First India's Space Sector Start-up To Successfully Launch The Vikram-s Rocket.

- A. Skyroot Aerospace
- B. Sagar Defence
- C. DRDO
- D. TATA

ANSWER: A

18. First Private Launchpad & Mission Control Center Established On The ISRO Campus At

- A. Kolkata
- B. Sriharikota
- C. Trombay
- D. Marmugao

ANSWER: B

19. The NCC First And Only Airstrip In The Country Is In__.

- A. Idukki Airstrip
- B. Kochi Airstrip
- C. Trombay Airstrip
- D. None

ANSWER: A

20. The __ Edition of Exercise Agni Warrior Conducted between the Singapore & Indian Army.

- A. 10th
- B. 11th
- C. 12th
- D. 13th

ANSWER: C

21. Naib Subedar Jeremy Lalrinnunga Is Related With

- A. Table Tennis
- B. Cricket
- C. Boxing
- D. Weightlifting

ANSWER: D

22. Durand Cup Is Related With

- A. Golf
- B. Cricket
- C. Soccer
- D. Hockey

ANSWER: C

23. Current Scientific Advisor To The Defence Minister Is

- A. Rakesh Sinha
- B. S. Somnath
- C. G. Sateesh Reddy
- D. Samir Kamat

ANSWER: C

24. 90th INTERPOL General Assembly Held In

- A. New Delhi
- B. Chennai
- C. Paris
- D. New York

ANSWER: A

25. INTERPOL Stands For

- A. International Criminal Pole Organization
- B. International Create Police Organization
- C. International Criminal Police Organization
- D. None

ANSWER: C



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