

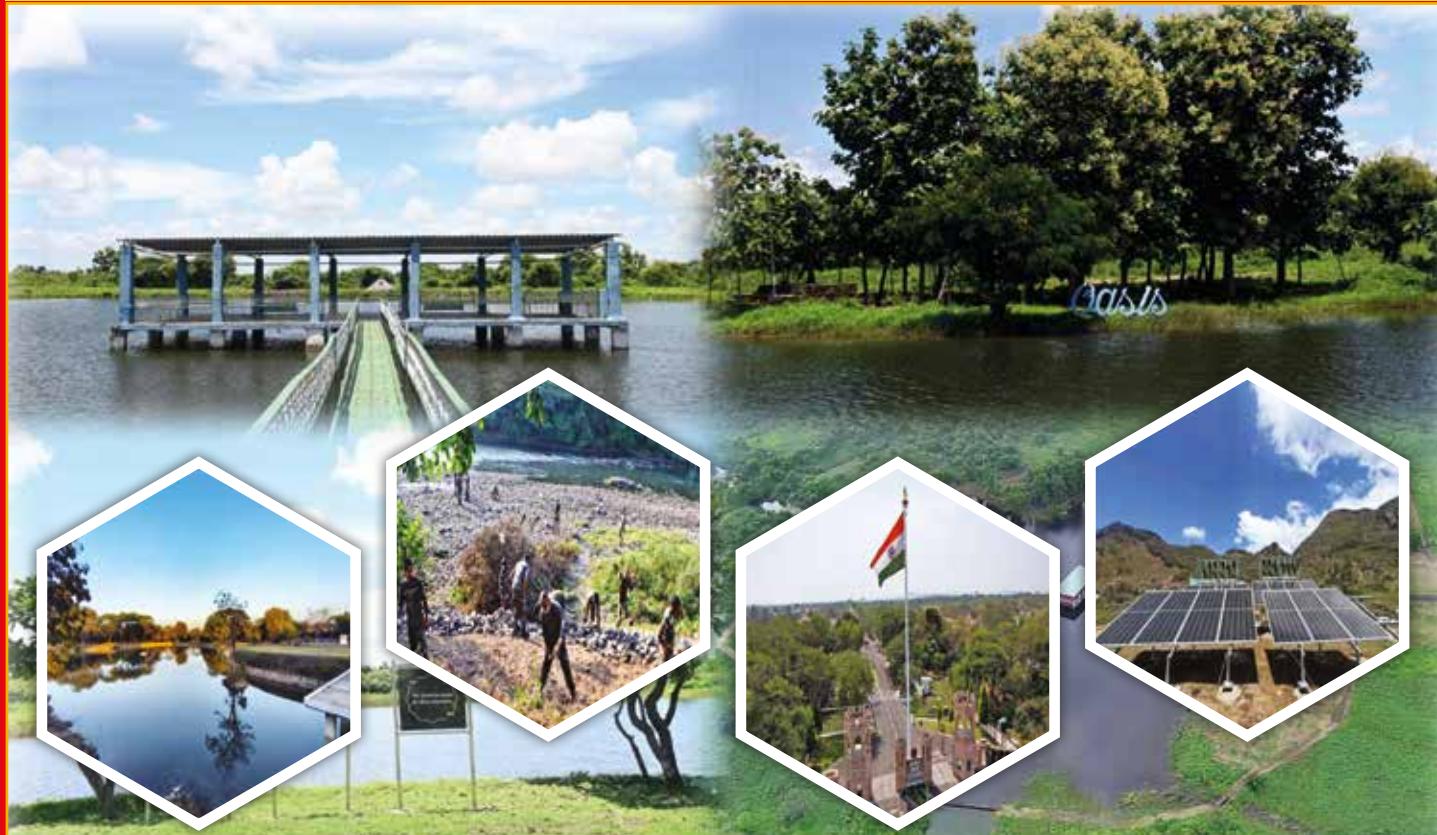


Baatcheet

No. 11/2025

AN INDIAN ARMY PUBLICATION

November 2025



ENVIRONMENT & SUSTAINABILITY

भारतीय सेना - सुरक्षा भी, संरक्षण भी

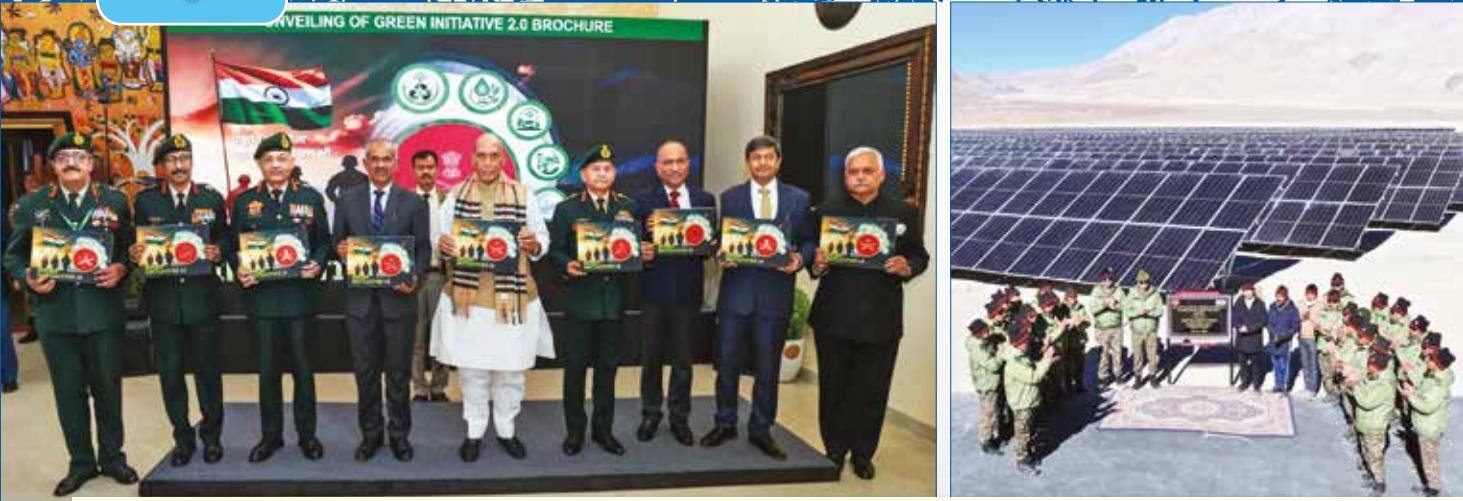


ECO-NEXUS : ENVIRONMENT AND SUSTAINABILITY





MARCHING TOWARDS A SUSTAINABLE FUTURE

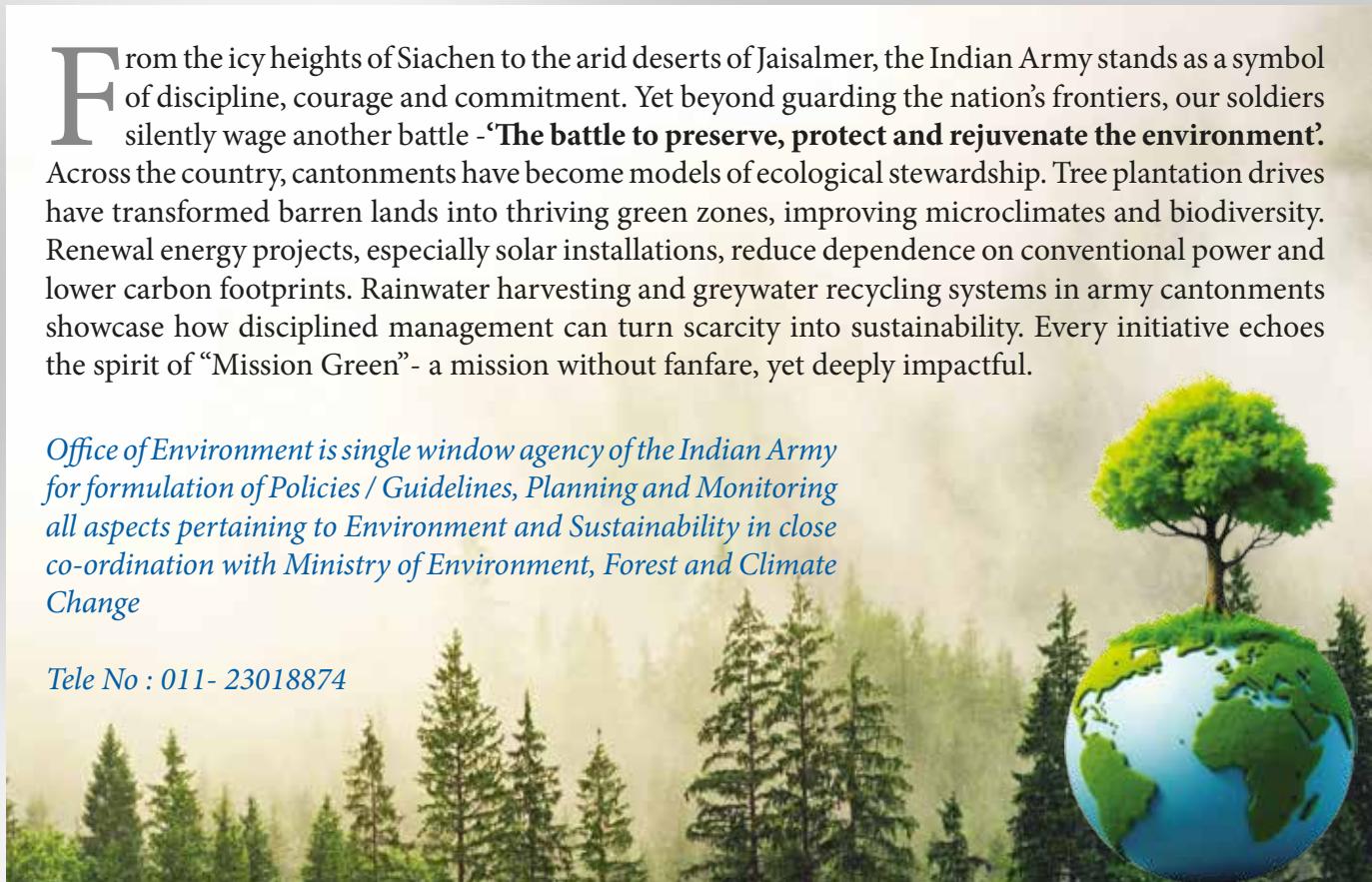


During the 3rd edition of Chanakya Defence Dialogue 2025, Hon'ble Raksha Mantri, on 28 Nov 2025, e-inaugurated the Solar component of the Green Hydrogen Project at Chushul, Ladakh, developed jointly by NTPC and the Indian Army, setting new benchmarks in clean and renewable energy. Hon'ble RM also released a brochure 'Green Initiatives 2.0', highlighting the Indian Army's continued commitment to sustainable practices, solid waste management (AMSA) and environmental stewardship.

From the icy heights of Siachen to the arid deserts of Jaisalmer, the Indian Army stands as a symbol of discipline, courage and commitment. Yet beyond guarding the nation's frontiers, our soldiers silently wage another battle - **'The battle to preserve, protect and rejuvenate the environment'**. Across the country, cantonments have become models of ecological stewardship. Tree plantation drives have transformed barren lands into thriving green zones, improving microclimates and biodiversity. Renewal energy projects, especially solar installations, reduce dependence on conventional power and lower carbon footprints. Rainwater harvesting and greywater recycling systems in army cantonments showcase how disciplined management can turn scarcity into sustainability. Every initiative echoes the spirit of "Mission Green"- a mission without fanfare, yet deeply impactful.

Office of Environment is single window agency of the Indian Army for formulation of Policies / Guidelines, Planning and Monitoring all aspects pertaining to Environment and Sustainability in close co-ordination with Ministry of Environment, Forest and Climate Change

Tele No : 011- 23018874





BEST CLEAN, GREEN AND SUSTAINABLE STATION OF THE YEAR COMPETITION

Indian Army has made significant contribution to de-carbonization and sustainable development and our Military Stations and cantonments are often called 'Lungs' of polluted and ever burgeoning cities. To strengthen this drive, Indian Army had institutionalized 'Best Clean, Green and Sustainable Station of the Year Competition' since 2021. The aim of the competition is to promote de-carbonization efforts and encourage sustainable practices by active participation of all residents of the station.

BATHINDA



**Category I (Population above 10,000)
Bathinda & Mhow**

AHMEDABAD



**Category II (Population between 5,000 – 10,000)
Ahmedabad & Sri Ganganagar**

LANSDOWNE



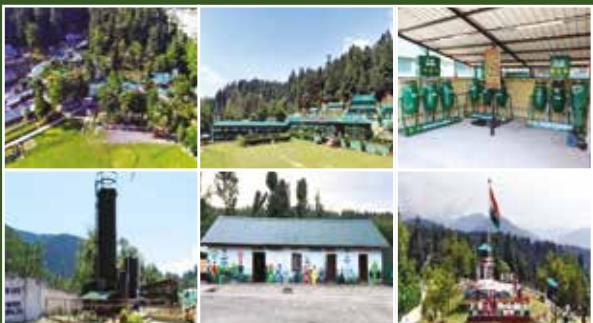
**Category III (Population below 5,000)
Lansdowne & Gangtok**

ASC Centre & College



**Category A Major Establishment
ASC C&C and OTA, Chennai**

ZANGLI



**Best in Apashisht Mukt Sainya Abhiyan
Zangli & Udaipur**

VARANASI



**Best Transformative Station
Varanasi & Jhansi**



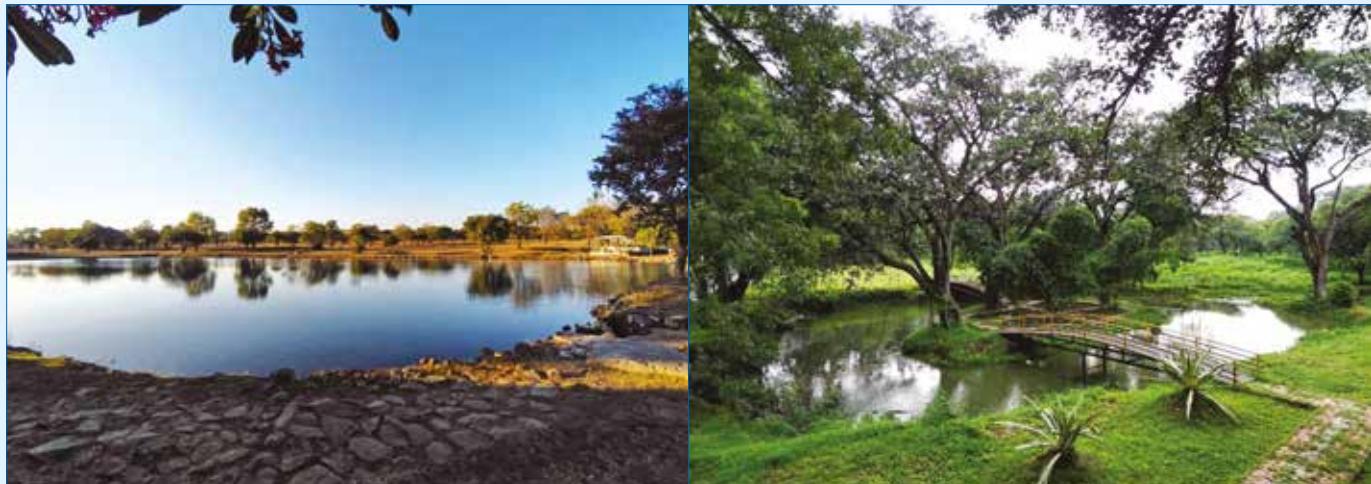
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AMRIT SAROVAR YOJNA/ CREATION OF ARTIFICIAL POND

The project was launched on 24 Apr 2022 (National Panchayat Raj Day) with an aim to develop

75 Amrit Sarovars in each district of India symbolizing the 75 years of independence.

Till date, Indian Army has created over **700** such **Amrit Sarovars**.

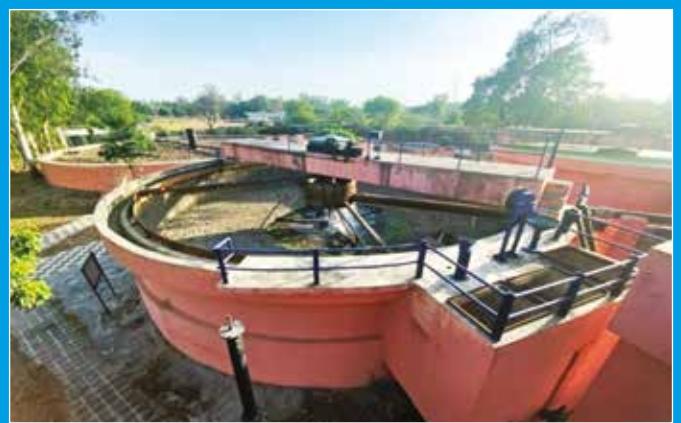


RAIN WATER HARVESTING



STPs AND GREY WATER RECYCLING

The Indian Army has implemented Sewage Treatment Plants (STPs) and greywater recycling systems to manage wastewater at its facilities, supporting broader national water conservation efforts. Various Projects are being undertaken at Military Stations





SUSTAINABILITY- THE NEW FRONTLINE



Over 75 Lakh Trees & Counting

ARBORICULTURE AND PLANTATION 'EK PED MAA KE NAAM'

On the occasion of World Environment Day, Prime Minister Narendra Modi launched the 'Ek Ped Maa Ke Naam' campaign. On 22 September 2024, the 128 Infantry Battalion and Ecological Task Force of the Territorial Army at Jaisalmer achieved a remarkable feat by planting over **5 lakh saplings in just one hour** and was recognized by the World Book of Records.



Ground Based Solar



Solar Gadgets & Lights



Rooftop Solar Geysers



SOLARISATION

68 Projects have been undertaken by Indian Army Units covering both Ground Solar Power & Solar Panels Rooftops Projects generating 91 Mega Watt of Solar Energy.

APASHISHT MUKT SAINYA ABHIYAN

Indian Army's Green Mission towards a Landfill-Free Future launched in October 2023, with the aim of achieving target to make all Army Stations Landfill-Free.



FLAGSHIP INITIATIVES – BOTTLES FOR CHANGE

Bisleri International Pvt. Ltd, through its flagship initiative *Bottles for Change*, joined hands with the Manekshaw Centre on 20 Jun 2025 to promote plastic circularity and responsible waste management.





Siachen

CLEANLINESS AND MAINT 'SWACHHATA HI SEVA CAMPAIGN'

The Indian Army has taken multiple initiatives in Waste Management at far and isolated locations including 'Base Camp' at mount Everest, Siachen Glacier and others. In addition, saving and resuscitation of water bodies in form of rivers, lakes and ponds pan India is also being undertaken on frequent basis.

USE OF ELECTRIC VEHICLES

The Indian Army, in alignment with the national vision of reducing carbon emissions and achieving energy sustainability, has taken proactive steps to introduce Electric Vehicles (EVs) into its transport fleet. The Army's EV initiatives are guided by National Electric Mobility Mission Plan (NEMMP), FAME India Scheme (Faster Adoption and Manufacturing of Hybrid & EVs), Army's Environmental and Sustainability Policy Framework.



BLDC Fans - 35% Savings



Sensor Based Street Lights



USE OF SMART SENSORS & METERS

Indian Army's Vision 2030 and Beyond aims to achieve net-zero energy consumption in cantonments through renewable micro-grids, AI driven energy analytics and smart energy meters.



KEY INITIATIVES BY INDIAN ARMY



HYDROGEN FUEL CELL BUS

Golden handshake between Indian Army and Indian Oil Corporation Limited (IOCL) over sustainable alternatives to fossil fuel resulted in deployment of Hydrogen Fuel Cell Technology bus on 27 May 2024, a first in Indian Army. Hydrogen Fuel Cell Technology ensures zero emission transport.



INDIAN ARMY CONTRACTS 113 BUSES (ELECTRIC)

Indian Army signed a contract worth ₹130.58 Crores with M/s JBM Auto Ltd for quantity 113 Bus (Electric) alongwith 43 Fast Chargers on 17 Oct 25.



GREEN HYDROGEN-BASED POWER PLANT

The Indian Army in partnership with National Thermal Power Corporation (NTPC) is establishing a solar-hydrogen-based Microgrid in Chushul, Ladakh to provide 24/7 electricity to remote locations, replacing diesel generators. This project uses a solar Microgrid to produce green hydrogen, which acts as an energy storage medium to provide a consistent 200kW power supply even in extreme temperatures, reducing fuel logistics and carbon emissions.





FUTURISTIC TRENDS IN ARCHITECTURE

GREEN BUILDING- ECO FRIENDLY ARCHITECTURE

The Indian Army is adopting green building concepts through the use of renewable energy, efficient design and sustainable materials. The goal is to create self-sufficient, sustainable infrastructure that reduces carbon footprint and promotes energy independence.

- o Energy efficiency and renewable energy integration (solar, geothermal)
- o Water conservation (rainwater harvesting, sewage treatment, grey-water reuse)
- o Sustainable/eco-friendly materials (fly-ash bricks, recycled content, low-emission construction)
- o Waste management (reduce, reuse, recycle; on-site treatment)
- o Site planning to preserve ecology and green cover (tree retention, landscaping)
- o Design for long life and maintenance-friendly systems (important for remote installations)
- o Indoor environment quality (ventilation, thermal comfort, daylight, efficient Heating Ventilation and Air - Conditioning)

THAL SENA BHAWAN, NEW DELHI

New Headquarters campus for the Indian Army being constructed conforms to Green Rating for Integrated Habitat Assessment - IV (GRIHA) norms (a high rating for green buildings in India). It will include features like solar panels, EV charging infrastructure, sewage treatment plant, compost plant — aiming for net-zero/near-net energy and reduced environment footprint.



GEOTHERMAL BASED NET-ZERO ENERGY BUILDING AT JHANSI

The Indian Army has inaugurated its first geothermal-based net zero energy building at Jhansi. The building uses ten boreholes (each ~120 m deep) for ground-source heat exchange, enabling efficient heating/cooling and maintaining comfortable indoor temperatures even when outdoor temperatures are extreme. Rooftop solar panels generate more renewable energy than the building consumes (annual balance).



CHIEF'S PAGE



COAS visited the forward posts of Trishakti Corps and reviewed the operational readiness of the formation. The COAS was briefed on key initiatives aimed at enhancing preparedness, jointmanship and integration of technology in the sector.



COAS visited Kharga Corps to review the formation's operational preparedness. He was briefed on initiatives aimed at enhancing combat readiness, integrating cutting-edge technologies, strengthening inter-agency synergy and advancing Nation Building efforts.



COAS presented the Lifetime Achievement Award to three legendary sportspersons Col Balbir Singh Kular (Retd), Sub Murlikant Petkar (Retd) and Sub Maj (Hony Capt) Vijay Kumar (Retd), honouring their extraordinary contributions to Indian sports and the Nation.



COAS delivered a Special Address at Delhi Defence Dialogue 2025 at Manohar Parrikar Institute for Defence Studies and Analyses. He spoke on how democratization of emerging tech is shaping battles and focused on human-centered innovation via synergy academia, industry and the armed forces.



COAS visited the forward posts of the Black Cat Division and was briefed on the operational readiness and capability enhancement initiatives of the formation. He also witnessed a display of indigenous equipment including drones that are enhancing the surveillance and operational capabilities of the formation.



COAS presided over the commissioning ceremony of INS Mahe at Naval Dockyard, Mumbai. Speaking on the occasion, the COAS highlighted that the induction of INS Mahe reflects India's growing ability to design and field complex combat platforms indigenously.

SNIPPETS



Rear Admiral Mohamed Tahin, Inspector of Moroccan Royal Navy, called on the VCOAS. The discussions focused on strengthening bilateral Defence Cooperation and fostering deeper military engagement.



GOC-in-C South Western Command witnessed the operational preparedness and validation training of newly raised Bhairav Strike Force. The troops demonstrated their operational capability and readiness to undertake offensive tasks in a swift, precise and successful manner.



The DGMO attended the 54th Bangladesh Armed Forces Day celebrations at the Bangladesh High Commission as the Chief Guest. He interacted with distinguished 1971 War Veterans, paying tribute to their courage and enduring legacy.



GOCC Uttarakhand Area inaugurated a Community Radio Station at Harsil. It marks another meaningful step in strengthening engagement with remote border communities. The new station is the second such initiative in Devbhoomi after Joshimath on 24 Nov 2025.



Gajraj Corps has successfully improvised and developed an in-house High Altitude Mono Rail System to enhance operational capability in high-altitude areas. This improvised logistics solution will boost operational logistics.



Indian Army boxers delivered a thunderous performance at the World Boxing Cup 2025 held at Greater Noida. Nine Indian Army pugilists who entered the ring finished on the podium including two women winning two gold-a rare and remarkable first.

SNIPPETS

Southern Command conducted integrated tri-services Exercise TRISHUL with large scale multi- domain manoeuvres spanning the Western Seaboard, Desert Sector and Rann & Creek Sector. GOC-in-C Southern Command reviewed the culminating phase at Madhavpur Beach, witnessing Amphibious Landing Operations along with integrated land, air and maritime elements.



Eastern Command conducted tri-services Exercise POORVIPRACHAND PRAHAR which encompassed latest battlefield tech, night-enabled, all-weather First Person View, swarm drones and UAS operating across the electromagnetic spectrum to deliver real-time sensing, targeting and coordinated fires alongside Attack Helicopters and composite Divyastra Battery.



GOC-in-C Western Command reviewed the tactical drills, battlefield procedures and combat integration of troops of Kharga Corps executing Exercise RAM PRAHAR.



GOC-in-C Northern Command visited Basantgarh and Rampur to review the counter terrorism grid. The General exhorted all ranks to remain vigilant and proactive against emerging threats in the hinterland. During the visit he also interacted with troops, lauding their professionalism and unwavering commitment to keep J&K terror free.

GOC-in-C ARTRAC visited Remount Veterinary Corps Centre and College, Meerut. The General Offr reviewed the training facilities for Military Working Dogs, Equestrianism & Veterinary Training.

SNIPPETS



Commemorating Operation PAWAN, the COAS in a solemn ceremony, laid a wreath at the National War Memorial, paying homage to the Bravehearts who made the supreme sacrifice. Joining him in honouring the fallen, Major General Ashok K Mehta (Retd), Lieutenant Colonel Atul Kochhar, MVC (Retd) and Mrs Uma Parameswaran, wife of Major Ramaswamy Parameswaran, PVC (Posthumous), also laid wreaths.



GOC Spear Corps visited Vijaynagar in Arunachal Pradesh and interacted with Gorkha Ex-Servicemen and the Lisu communities. He appreciated the Ex-Servicemen for their loyal service and contributions in safeguarding the nation.



A Special Premier of feature film '120 BAHADUR' was conducted at New Delhi for all ranks of Indian Army with the COAS as the Chief Guest. The film conveys a powerful true story of 120 Indian soldiers from the 13 Kumaon Regiment who displayed extraordinary courage during Battle of Rezang La in 1962.

इमारे पूर्व-सैनिक हमारी शान



COAS felicitated four distinguished veterans at Ambala Cantt with the 'Veteran Achiever Award' recognising their exceptional contributions to Nation-Building, social service and youth empowerment post-retirement.



Eastern Command celebrated 63rd Walong Day to commemorate the Bravehearts of 1962. The ceremony encompassed wreath laying, inauguration of statues dedicated to the heroes of the Battle of Walong, drone display and other cultural activities.



Indian Army commemorated Rezang La Day, paying solemn homage to the valiant bravehearts of 13 KUMAON who made the supreme sacrifice in service of the Nation during the Battle of Rezang La. Their courage, duty and devotion continue to inspire generations.

EQUIPMENT OF THE MONTH



ASMI

India's first indigenous 9mm Machine Pistol has been jointly developed by DRDO and Indian Army. Infantry School, Mhow and DRDO's Armament Research & Development Establishment (ARDE), Pune have designed and developed this weapon using their respective expertise in the complementary areas. The weapon has been developed in a record time of four months. The Machine Pistol fires the in-service 9mm ammunition and sports an upper receiver made from aircraft grade Aluminium and lower receiver from carbon fibre. 3D Printing process has been used in designing and prototyping of various parts including trigger components made by metal 3D printing.

TECHNICAL EDGE

- Type:** Submachine Gun/ Machine pistol/ Personal Defence Weapon (PDW).
- Caliber:** 9 x 19 mm Parabellum.
- Action:** Straight blowback.
- Weight:** 2.2 kg with folded length.
- Length:** 372 mm (stock folded).
- Barrel Length:** 7.2 inch (180 mm) or 8 inch (203.2 mm) variants.
- Rate of Fire:** 750 rds/ min.
- Effective Range:** 100 meters.
- Feed System:** 32 rds high and 27 rds less capacity.
- Receiver Material:** Upper Aircraft-grade AI and Lower is moulded from Nylon with steel inserts to reinforce.

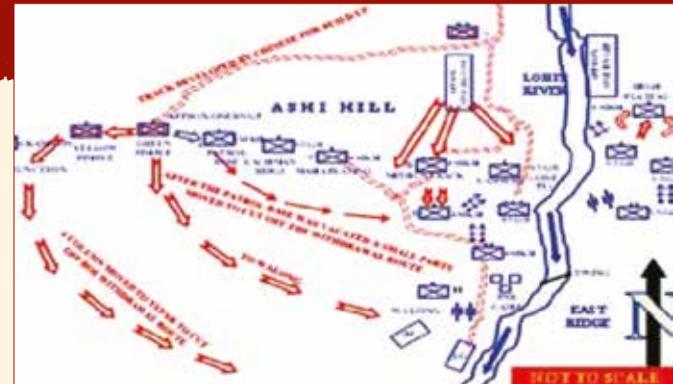
KEY FEATURES

- Personal weapon for Heavy weapon det like— Mortar, Anti-Guided Tank Missile, Rocket Launcher, Medium Machine Gun crews.
- Personal weapon for 'A' vehicle crews - Tank/ Boyevaya Mashina Pekhoty/ Self-Propelled Arty.
- Personal weapon for aircrews - helicopters/ fighters.
- Personal weapon for Radio/ RADAR operator.
- VIP protection duties.
- Counter Insurgency/ Counter Terrorism operations.
- Policing duties/ Law enforcement.

EMPLOYABILITY

The weapon has huge potential in Armed forces as personal weapon for heavy weapon detachments, tank commanders, aircraft crews, drivers/dispatch riders, radio/radar operators, Closed Quarter Battle, counter insurgency and counter terrorism operations etc. This is also likely to find huge employability with the central and state police organizations as well as VIP protection duties and Policing. The Machine Pistol is likely to have production cost under rupees 50000 each and has potential for exports. Indian Army has inducted 550 machine pistols into Northern Command.

BATTLE OF WALONG -INDO-CHINA WAR 1962



Battle of Walong was one of the most savagely and bravely fought battles of the Indo-China war in 1962. From 21 October till 16 November 1962, four Infantry battalions along with other soldiers of Supporting Arms and Assam Rifles stood firm and repulsed repeated attacks by a division plus size force of the People's Liberation Army. In 1962, the area was administratively supported from the nearest road head at Teju. Troops had built up in the previous months along a 200 km long Animal Transport (AT) track to take up defences in the sector. The Advanced Landing Ground (ALG) at Walong was unpaved in 1962 and only an Otter aircraft with 10 men could land there. The long lines of maintenance led to paucity of critical stores, ammunition and adequate artillery support.

Despite these hardships, troops of 11 Infantry Brigade took up defences, in the then little known hamlet of Walong, which became part of national folklore after the first successful defensive battle of the war fought there by the Indian Army at Namti Plains, five km North of Walong. The Indian Army had deployed two companies in forward locations astride Kibithu and Dicchu along with two platoons of 2 Assam Rifles. The main defences in the sector were along both banks of Lohit River astride Namti Plains, Mithun Spur, Maha Plateau, Ladders on the West bank of Lohit River and along Ledge and Dong on the East Bank. 'A' Company of 6 KUMAON deployed in the forward location of Madan Ridge (then known as Mc Mahon Ridge) was attacked on 21 October. The dogged defensive battle resulted in 60 People's Liberation Army casualties against a loss of 04 soldiers on the Indian side.

At Namti, soldiers of 6 KUMAON, 4 SIKH & 2/8 GR repeatedly foiled all attacks of People's Liberation Army from 25 to 27 October. Soldiers of 6 KUMAON deployed on the screen location at Ashi hill inflicted more than substantial casualties on the People's Liberation Army. The area of Namti plains was given the name of 'Tiger's Mouth' by the adversary as more than 600 People's

Liberation Army troops were trapped in this area by 4 SIKH and approx 200 People's Liberation Army troops perished on 25 October. The area was effect covered by fire from three directions with troops deployed at Mithun Spur, Maha Plateau and Ladder. Despite repeated attacks, People's Liberation Army could not breach the defences of Namti till 16 November.

6 KUMAON occupied Tri Junction on the Western heights of Walong and counter attacked People's Liberation Army troops who had tried to outflank Namti from West and had occupied Green and Yellow Pimple area on 14 November. This was only the second instance of attack by Indian Army during the 1962 war. Despite lack of artillery support, a daylight attack was launched at 0930 hrs. Of the 200 men of 6 Kumaon who went for the attack, only 90 returned to Tri junction. On 15 November at 0430 hours, the enemy attacked Tri Junction area, which was successfully repulsed. The People's Liberation Army attacked again the same day at 1800 hours and sent in successive attacks at four hour intervals.

In these brave actions, 118 soldiers of 6 KUMAON, 110 soldiers of 4 DOGRA and 82 soldiers of 4 SIKH made the supreme sacrifice. The battle is replete with tales of heroism and daring feats in the face of overwhelming odds. The Walong sector was the only sector where the Indian Army launched a counterattack on the advancing People's Liberation Army and inflicted substantial casualties on the enemy.

The heroics of Sepoy Kewal Singh, Lance Havildar Kripa Ram, Lt Yog Raj Palta of 4 SIKH, Naik Bahadur Singh, Capt Prem Nath Bhatia and Captain Ravi Mathur of 6 KUMAON, Naib Subedar Jagan Limbu of 2 ASSAM RIFLES continue to motivate the youth in the country. The sacrifices by the gallant soldiers who lived up to the traditions of Indian Army of 'Service Before Self' continue to be the guiding light and motivate soldiers in defending the sentinels of Walong even today.

COMMUNIQUE



ARMY WELFARE PLACEMENT ORGANISATION



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WEBSITE : WWW.EXARMYNAUKRI.COM

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STRAT GUIDANCE TO JUNIOR COMMISSIONED OFFICERS FOR 2025

(Uploaded on COAS page on Army Intranet)

- **Core Thought.** Junior Commissioned Officers form a vital ech in the “Leader & the Led” construct. Effectiveness of this tier rests upon the ownership being taken by the Junior Commissioned Officers, of their mandated charter. Towards that, the core thought of Strat Guidance to Junior Commissioned Officers will be - **“Right to Responsibility”.**
- **Competencies Desired.**
 - ◆ **Power to Inspire**
 - ◆ **Power to Lead**
 - ◆ **Power to Advise**
 - ◆ **Power to Absorb/ Listen**
 - ◆ **Power to Change**

- In a major milestone, 55 of 57 Special Clothing & Mountaineering Equipment (SCME) items for troops in Super High Altitude Areas have now been fully indigenised - 97% of the inventory. The remaining two items are under trials and will be indigenised by 2026.
- Further strengthening operational capability, the Army introduced the New Coat Combat (Digital Print) in January 2025. Designed by National Institute of Fashion Technology New Delhi, this three-layered, ergonomically engineered jacket uses advanced technical textiles to boost soldier performance in diverse terrains. The design is officially registered with the Controller General of Patents, Designs and Trademarks.

- **Use of Indian Army uniform in any form by unauthorised person is a punishable offence.**
- **Recycling/ handing over of used army uniform to private entities is strictly prohibited.**



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