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कहां उड़ा सकेंगे ड्रोन, केंद्र बना रहा पॉलिसी

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■ नई दिल्ली : ड्रोन के बढ़ते प्रसार-उपयोग के बीच केंद्र सरकार की चिंता है कि इसका गलत इस्तेमाल और उससे जुड़े खतरों पर किस तरह रोक लगाए। ड्रोन से उपजे इस नये खतरे से निबटने की तैयारी भी सरकार ने शुरू की है। गृह मंत्रालय ड्रोन के अवैध तरीके से उड़ने पर रोक लगाने के लिए एक खास नीति लेकर आ रहा है। सूत्रों के अनुसार, तमाम संबंधित पक्षों से बात करने के बाद मंत्रालय ड्रोन पर एक विस्तृत नीति तैयार कर लेगा है। यह नीति पिछले दिनों ड्रोन को लेकर जारी गाइडलाइंस के आगामी जिसमें सरकार ने नवंबर महीने में दिशा-निर्देश दिया था कि ड्रोन कहां-कहां नहीं उड़ सकते हैं।

ड्रोन ट्रैक करने के लिए होगा सिस्टम

सूत्रों के अनुसार, ड्रोन ट्रैक करने के लिए बड़ा सिस्टम तैयार किया जा रहा है और पहले चरण में एक दर्जन शहरों में इसे लगाया जाएगा। अब तक किसी भी इलाके में ड्रोन उड़ाने और उसकी गतिविधियों को ट्रैक करने के लिए सरकार के पास सिस्टम नहीं है। इसके लिए दिल्ली, मुंबई सहित 12 शहरों में खास सिस्टम लगाया जाएगा जो किसी तरह भी ड्रोन की उड़ान को रियल टाइम ट्रैक कर लेगा। सूत्रों के अनुसार, खास मशीन को सरकार ने खरीद भी लिया है जिसपर लगभग 1 अरब रुपये खर्च आया है। अधिकारियों के अनुसार, अब तक न तो उसके पास रियल टाइम ट्रैक करने का कोई सिस्टम था या अगर कोई गलत तरीके से ड्रोन उड़ाते पकड़ में आता



है तो उसके खिलाफ किस तरह की कार्रवाई हो, इसके लिए भी कोई स्पष्ट कानून नहीं था। प्रस्तावित नीतियों में इन बातों पर स्पष्ट गाइडलाइंस होंगी। ड्रोन कहां-कहां उड़ सकता है और कहां नहीं सरकार इसके लिए पहले ही लिस्ट जारी कर चुकी है।

एयरपोर्ट के 5 किलोमीटर दायरे में था बैन

इसी साल नवंबर महीने में एविएशन और होम मिनिस्ट्री ने आपसी सहमति के साथ एयरपोर्ट के 5 किमी के दायरे के अंदर और इसके ऊपर ड्रोन को उड़ान पर पाबंदी लगाई थी, अलावा देश के अंदर सभी नो फ्लाई ज़ोन में भी ड्रोन उड़ाने की मनाही की थी। दिल्ली की महत्वपूर्ण जगहों पर ड्रोन उड़ाने पर बैन था और कहा गया था कि विजय चौके के 5 किलोमीटर के अंदर इसे नहीं उड़ाया जा सकता है। मालूम हो कि हाल में ड्रोन को लेकर कई घटनाएं घट चुकी थीं। दिल्ली में ड्रोन की संदिग्ध गतिविधि को लेकर हवाई जहाज को कुछ देर तक उड़ने से भी रोक दिया गया था।

सुरक्षा का
खतरा देखते
हुए निपटने की
तैयारी शुरू की
सरकार ने

Army Chief visits Rajouri sector, reviews security

Chief of the Army Staff General Bipin Rawat visited the White Knight Corps (16 Corps) here to review the operational preparedness and the prevailing security situation. He was accompanied by the Northern Command chief Lt Gen D Anbu.

The Army Chief was briefed by Lt Gen Saranjeet Singh, General Officer Commanding (GOC) of the 16 Corps, about the preparedness of the White Knight Corps in dealing with the emerging and dynamically changing security situation and the measures taken to thwart any misadventure by forces inimical to peace.

The Army Chief visited the Rajouri sector where he was briefed on the operational readiness by the GOC, Ace of Spades Division. Four soldiers were killed in a ceasefire violation in the sector on December 23.

The Public Relations Officer (PRO) of the 16 Corps said the Army Chief visited forward posts along the Line of Control where he was briefed in detail on the actions being undertaken to ensure a robust counter-infiltration grid. "He (the Army Chief) interacted with soldiers deployed on the forward posts and exhorted the troops to continue to remain vigilant and ever ready," the PRO said.

General Bipin Rawat, while complimenting the formations for their unflinching efforts, said there was a need to remain prepared in order to counter the nefarious designs of the enemy, the PRO further said.



Photovoltaic road tested in China

China successfully tested its first photovoltaic highway based on home-grown technology in the country's eastern Shandong province on Thursday, according to reports from Xinhua. The road has wireless charging systems for electric vehicles.

The road is constructed using solar panels which have a thin sheet of clear concrete on top of them, protecting the surface.

The panels were built to transfer energy to electric vehicles passing on top of them.

The one-kilometre segment of solar-powered highway covers a surface area of 5,875 sq.m. The stretch has three layers. At the bottom is an insulator to prevent moisture from getting to the photovoltaic devices in the middle layer, and on top is the layer of transparent concrete.

The tested segment of highway can generate 817.2 KW of power and is expected to generate 1 million KW hours of electricity each year. The electricity generated will be connected to China's national power grid.

China has become the second country to construct a photovoltaic highway. France was introduced the world's first photovoltaic road fitted with solar panels in late 2016.

ISRO to launch 31 satellites in one go aboard PSLV

First PSLV mission after failure of IRNSS-1H.

The Indian Space Research Organisation (ISRO) on Friday said it would launch 31 satellites, including India's Cartosat-2 series earth observation space craft, in a single mission on January 10.

The mission will be the first 'Polar Satellite Launch Vehicle' (PSLV) mission after the unsuccessful launch of the navigation satellite IRNSS-1H in August this year.

"The launch is tentatively scheduled for January 10," a senior ISRO official said.

The mission's main payload would be India's Cartosat-2 series earth observation satellite. The high-profile Mission Readiness Review committee and Launch Authorisation Board is scheduled to meet soon to take the final call.

PSLV-C40 will be used for the launch from the spaceport in Andhra Pradesh's Sriharikota, about 100 kilometres from Chennai.

The mission would be a combination of 28 nano satellites from abroad, including Finland and the U.S., one micro and one nano satellite from India along with one Cartosat satellite, the official said.

On August 31, India's mission to launch its backup navigation satellite IRNSS-1H on board PSLV-C39 was unsuccessful after a technical snag on the final leg.

In February this year, PSLV-C37 launched the first Cartosat-2 series satellite along with 103 co-passenger satellites in a single flight.

Hyderabad welcomes 'Robocop' prototype

By Marri Ramu

The 'smart police robot' has capabilities to identify suspects and record video clips

Hyderabad may soon get its first 'robocop', with the launch of a prototype in the city on Friday. Unlike its famous Hollywood counterpart, however, this five-foot-seven-inch tall 'smart police robot', weighing 43 kg, is not yet capable of chasing down criminals.

But according to its makers, it can take complaints, record audio and video clips, identify suspects, detect metals, and monitor temperature.

The policing robot has been made by H-BOTS, a Hyderabad-based artificial intelligence (AI) and machine learning start-up. It was conceived at Makers Leeway, the start-up's research lab, six months ago.

Multi-touch screen

The life size prototype was launched by Telangana Information Technology Secretary Jayesh Ranjan on Friday. Made of nylon plastic, said to be ten times stronger than regular plastic, the robot has a multi-touch screen. "It recognises voice and can interact in English. In the near future, it will recognise Telugu and Hindi as well," said Kisshhan PSV, CEO of H-BOTS.

The robot is expected to be familiar with basic policing work, regulation of traffic, and details of the Indian Penal Code. “On subjects it is not familiar with, the robot will reply to queries by sourcing information from Wikipedia or Google,” Mr. Kisshhan said, adding that it has an AI unit inside.

If someone tries to tamper with it, the robot is programmed to blow a siren similar to that used by police vehicles. Though far from a complete ‘police person’, unlike a human cop, it can work round-the-clock and its AI-enhanced surveillance capabilities would be far superior.

Its makers say it can be showcased as an advance in policing technology and eventually be introduced to carry out basic police work such as registering cases. But a lot of new ground needs to be covered in the development AI, machine learning, and robotics before there is a realistic chance of robots replacing humans in policing.

In its present form, the smart police robot can assist people at malls, streets, airports and railway stations. After a few more months of fine-tuning the robot, the company plans to produce 700 units a year by 2020.