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Tue, 23 April 2019

India to flight test first subsonic engines for Military Drones

They will be used as propulsion units for drones and have been bench-tested for maximum power and extremely cold weather conditions for 90 minutes of continuous operation. These engines are 95% indigenous

New Delhi (Sputnik): India will soon begin flight tests of its first 400 kg thrust class Small Turbofan Engine (STFE) as a power plant for unmanned air vehicles (UAVs) targeted for subsonic applications. The state-funded Gas Turbine Research Establishment (GTRE) realised six prototype engines with 95% indigenous components last year.

The GTRE test was tested at Bengaluru in southern India as well as at Leh in northern-most India, according to the Defence Research and Development Organisation (DRDO).

"The GTRE tested the engine for max power setting at Bengaluru for 90 minutes continuous operation. During peak winter, the engine was tested at Leh at (-15 degree Celsius)", DRDO's statement read.

In March 2018, DRDO invited expressions of interest from Indian industries willing to work under technology transfer terms for manufacturing and assembly of the engine.

"Further efforts are on to flight test the engine and to manufacture the same through Indian industries," the document read further.

The Indian Defence Ministry last year released a document titled "Technology Perspective and Capability Roadmap 2018" that talked about the government's intention to acquire more than 400 military drones, including combat and submarine-launched remotely piloted aircraft, in the next decade.

"The medium-altitude, long-endurance (MALE) combat RPA (remotely piloted aircraft) should have the capability to fly up to 30,000 feet altitude with extended satellite communication ranges and endurance of more than 24 hours", a Defence Ministry official said.

The Defence Research and Development Organisation is likely to use the engine in the Nirbhay subsonic cruise missile that it successfully test fired last week from the Integrated Test Range (ITR) at Chandipur in Odisha. It was the sixth development flight trial with the objective to prove the repeatability of the boost phase and cruise phase using way point navigation at very low altitudes.

https://sputniknews.com/military/201904221074353461-indian-to-test-subsonic-engine-drone/

THE ECONOMIC TIMES
WWW.ECONOMICTIMES.COM

Tue, 23 April 2019

India to get eye in sky to track planes over its ocean

By Saurabh Sinha

New Delhi: Come next January and India will be able to know the exact position of aircraft flying over the vast stretches of Indian Ocean falling in airspace of its own as well as that administered by it, every 30 seconds. The Airports Authority of India (AAI) has tied up with American company Aireon that with its partners provides space-based global air traffic surveillance system. On land, planes equipped with automatic dependent surveillance-broadcast (ADS-B) systems beam their positions to ground-based receivers every few seconds.

India has 30 such receivers, which, in turn, send the positional data to connected ATC monitoring systems, giving exact position of aircraft. But when over the vast ocean, air traffic controllers (ATC) get only a rough idea of position of aircraft.

"From next January, aircraft with ADS-B system will beam their exact position every 30 seconds to satellites of Aireon system, which will then send the data to our ATC systems in real time. Thus even over ocean we will know exactly where an aircraft is. We will roll out this system in airspace that we monitor and offer it free of charge to airlines flying and overflying there. That will vastly improve the quality of service that Indian ATC offers," Vineet Gulati, member (air navigation services, and head of AAI's air traffic control told TOI.

https://economictimes.indiatimes.com/news/defence/india-to-get-eye-in-sky-to-track-planes-over-its-ocean/printarticle/68985908.cms

ZEENEWS

Tue, 23 April 2019

Nabhah Sparsham Diptam: Here's how Indian Air Force got its motto

The IAF got its motto - Nabham Sparsham Deeptam –
from the eleventh chapter of the Bhagavad Gita

New Delhi: The Indian Air Force (IAF), which is the fourth strongest air force in the world, has a unique connection with Bhagavad Gita.

Yes, it's true. The IAF got its motto - Nabham Sparsham Deeptam - from the eleventh chapter of the Bhagavad Gita.

"Nabham Sparsham Deeptam" literally means "Touch the Sky with Glory!"

It has been taken from the eleventh chapter of the Bhagavad Gita (11:24), when Lord Krishna is giving the discourse to Arjuna – considered a great warrior of his time - on the battlefield of Kurukshetra during the Great War of Mahabharata.

The eleventh chapter of Bhagwad Gita talks about Lord Krishna, who is showing his supreme divine form to Arjuna and the great form of the Lord is reaching the sky with glory.

This great form of the Lord is evoking fear and loss of self-control in the mind of Arjuna.

The Indian Air Force, similarly, aims to overcome the adversaries with an application of aerospace power in defence of the nation.

The IAF shared an interesting post on Instagram in which it revealed some very interesting facts about its motto.

https://zeenews.india.com/india/nabhah-sparsham-diptam-heres-how-indian-air-force-got-its-motto-2197773.html

THE ECONOMIC TIMES
WWW.ECONOMICTIMES.COM

Mon, 22 April 2019

Top Navy commanders to review security preparedness in maritime domain

By Shaurya Karanbir Gurung

New Delhi: Top commanders of the Navy will extensively deliberate on emerging challenges facing the country in the maritime domain and review the evolving security dynamics in the region at a three-day conclave beginning Tuesday.

Navy officials said the naval commanders conference is expected to fine-tune the Navy's strategy for responding to any possible threats and added that it will discuss overall security challenges in the backdrop of the Pulwama attack and developments thereafter.

"The conference assumes greater significance in the backdrop of Pulwama associated events that have brought the country's defence under sharper focus and will provide the higher naval leadership a forum to discuss the emerging challenges in the maritime domain," the Navy said in a statement.

The conference is the apex forum within the Navy for interaction between the naval commanders.

Chief of the Naval Staff Admiral Sunil Lanba will review major operational, materiel, logistics, training, human resources and administrative issues at the conference.

Defence Minister Nirmala Sitharaman is scheduled to address the naval commanders on the opening day and interact with them. "Interaction with chiefs of Indian Army and Indian Air Force during the conference would be utilised to analyse the operational environment, deliberate on tri-service synergy and readiness to deter and neutralise threats aimed at the country's sovereignty and territorial integrity," the Navy said.

Themes like functional reorganisation of Indian Navy towards improving operational efficiency and optimal manning will form the core of discussions towards finalising long term road map for the force, the Navy said.

It said discussions will take place on acquisition of new capabilities, harnessing niche technologies like big data analytics and artificial intelligence for solutions in the domains of naval combat, convergence of networks, logistics and administration.

In keeping with the expectation of the Indian Navy being the net security provider in the Indian Ocean Region and first responder to any crisis, the forum will also deliberate upon the lessons learnt from the recently concluded humanitarian and disaster relief operations by it, said a Navy official.

https://economictimes.indiatimes.com/news/defence/top-navy-commanders-to-review-security-preparedness-in-maritime-domain/printarticle/68978796.cms

The Tribune
VOICE OF THE PEOPLE

Tue, 23 April 2019

12 new N-plants soon: DAE chief

Mumbai**:** India will soon have 12 more nuclear plants to improve power situation and ensure there is free flow of uninterrupted power supply for both industries and residential use, a statement issued here today quoted Secretary of the Department of Atomic Energy (DAE) KN Vyas as saying.

"Nuclear technology helps in betterment of lives through varied usages and is an irreplaceable source of clean, pollution-free energy," the statement quoted Vyas, who is also the Atomic Energy Commission of India's Chairman, as saying at the 11th International Forum AtomExpo 2019, sponsored by Rosatom State Atomic Energy Corporation, held in Sochi, Russia, recently.

He said the founder of Indian nuclear programme, Homi J Bhabha, had envisaged that nuclear technology would be "very essential" and not just in the power sector, but for other societal uses intended for betterment of life.

"We believe when it comes to clean energy, there is no substitute to nuclear energy as it is sustainable and without interruption, one can have clean energy," the statement said citing the Secretary's remarks.

Citing the record run of Kaiga Nuclear Power Station, he said a small unit of indigenously developed 220-250MW reactor has completed 962 days of uninterrupted run at 99.3 per cent capacity and the amount of electricity it has generated is "tremendous".

Vyas said the first stage of India's indigenous nuclear power programme has now attained maturity with 18 operating Pressurised Heavy Water Reactors (PHWRs). — IANS

Nuclear plants will improve power situation and ensure there is free flow of uninterrupted power supply for both industries and residential use. KN Vyas, DAE Secretary.

https://www.tribuneindia.com/news/nation/12-new-n-plants-soon-dae-chief/762199.html