

## एलसीए के नौसेना संस्करण का कम जगह में लैंडिंग का सफल परीक्षण, सशक्त होगी नेवी

*डीआरडीओ और एडीए ने शुक्रवार को यहां स्वदेशी हल्के लड़ाकू विमान (एलसीए)  
के नौसैनिक संस्करण का पहली बार कम जगह में लैंडिंग का सफल परीक्षण किया।*

**नई दिल्ली:** स्वदेशी हल्के लड़ाकू विमान (एलसीए) तेजस के नौसैनिक संस्करण के विकास में एक अहम पड़ाव पार हो गया है। तेजस ने शुक्रवार को सफलतापूर्वक 'अरेस्टेड लैंडिंग' (कम जगह में लैंडिंग) करके विमान वाहक पोत पर उतरने की अपनी क्षमता का प्रदर्शन किया।

### कम देशों के पास है ऐसा लड़ाकू विमान

एलसीए की पहली 'अरेस्टेड लैंडिंग' में शामिल सैन्य अधिकारियों ने बताया कि इस सफल परीक्षण ने भारत को उन चुनिंदा देशों की सूची में शुमार कर दिया है जिनके पास ऐसे विमान डिजायन करने की क्षमता है जो विमान वाहक पोत पर उतर सकते हैं। रक्षा मंत्रालय ने एक बयान जारी कर कहा, 'भारतीय नौसैनिक विमानन के इतिहास में आज स्वर्ण अक्षरों का दिन है। गोवा में आइएनएस हंस पर हुए परीक्षण ने इस विमान के भारतीय विमान वाहक पोत आइएनएस विक्रमादित्य पर लैंडिंग के प्रदर्शन का मार्ग प्रशस्त कर दिया है।'

### परीक्षण से नए दौर की शुरुआत

बयान में कहा गया है कि इस परीक्षण ने एक नए दौर की शुरुआत की है जिसमें एक साझा लक्ष्य को हासिल करने के लिए कई एजेंसियां एक साथ आई हैं। बता दें कि तेजस का नौसैनिक संस्करण अभी विकास के चरण में है। इसके विकास में रक्षा एवं अनुसंधान विकास संगठन (डीआरडीओ) के साथ विमानन विकास एजेंसी, हिंदुस्तान एरोनॉटिक्स लिमिटेड का विमान अनुसंधान एवं डिजायन केंद्र, वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद और अन्य संगठन शामिल हैं। मालूम हो कि तेजस विमानों की एक खेप पहले ही भारतीय वायुसेना में शामिल हो चुकी है।

### तेजस की क्षमता से सशक्त होगी सेना

हिंदुस्तान एरोनॉटिक्स लिमिटेड (एचएएल) के बनाए स्वदेशी जेट विमान एलसीए तेजस को जल्द ही एयर शो में फाइनल ऑपरेशन क्लीयरेंस (एफओसी) देकर वायुसेना में शामिल किया गया था। एफओसी मिलने के अर्थ है कि युद्धक विमान मिसाइल क्षमता में स्तरीय है। हवा में ही एक विमान से दूसरे विमान में ईंधन भर लेने में सक्षम है। हवा से जमीन पर सटीक वार कर सकता है।

### वायुसेना को मिलेंगे 16 और तेजस विमान

एचएएल के एक वरिष्ठ अधिकारी ने बताया कि इस साल के अंत तक 16 और तेजस विमान तैयार कर वायुसेना को सौंपे जाएंगे। इसके अलावा चार अन्य विमान अगले साल बनकर तैयार होंगे। चूंकि एचएएल ने बेंगलुरु परिसर में 1380 करोड़ रुपये का निवेश करके अधिक विमान बनाने की क्षमता बढ़ा ली है।

## Tejas clears Navy's vital test

*Naval variant makes successful 'arrested landing'*

New Delhi: In what is a significant milestone in the Indian military aviation, the naval variant of Tejas, light combat aircraft (LCA), on Friday made its first-ever 'arrested landing', paving the way for its usage from an aircraft carrier.

'Arrested landing' was carried out at the Navy's specially designed shore-based test facility (SBTF) at Goa. The facility has a ramp – to mimic the one on aircraft carriers – which facilitates ski-jump style take-off and also has 'arrested landing' facility for aircraft. The same parameters and method is used to fly and land fighter jets from the deck of sea-going aircraft carriers.



This will pave the way for this Indigenous platform to undertake aircraft carrier landing demonstration on board the INS Vikramaditya.

There is a difference between the Indian Air Force-version of LCA and the Naval variant. The under carriage of the naval version is stronger as the arrested landing is done by holding back a hook that hangs from the underbelly of the plane. A set of steel cables on the deck of the carrier stops the plane. The available landing space on an aircraft carrier is some 250 metres. The IAF version can land and stop at regular airfield.

The success had come about after several years of flight testing and four campaigns of dedicated testing at SBTF, Goa. Today the LCA (Navy) flight test team led by Commodore JA Maolankar, Chief Test Pilot, Capt Shivnath Dahiya and Commander JD Raturi successfully executed a textbook arrested landing at the SBTF.

"This arrested landing heralds the arrival of true indigenous capability and displays the professional prowess of our scientific community. Aeronautical Development Agency (ADA) and design-and-build capability of HAL (ARDC), DRDO and CSIR Labs executed this landmark event," Ministry of Defence statement said tonight.

This event marks the start of a new era where multiple agencies have come together to achieve a common goal. The participation of Certification Agency (CEMILAC), Quality Agency (DGAQA) and, above all, the men and women on the ground who serviced the aircraft and monitored it during strenuous trials.

Today's event has put India on the world map as a nation with the capability to design a deck-landing aircraft.

### **Nod to Home-made guns for tanks**

Army tanks will now carry India-made guns. The Defence Acquisition Council of the Ministry of Defence on Friday, maintaining focus on the 'Make in India' initiative, accorded approval for indigenous development and production of the 125 MM main gun for the T-72 and T90 tanks.

<https://www.tribuneindia.com/news/nation/tejas-clears-navy-s-vital-test/832111.html>

## Rs 5400 crore deal inked for 7 more squadrons of Akash missiles for IAF

By Rajat Pandit

### Highlights

- Sources said the delivery of the new Akash-2 squadrons, which are geared to intercept hostile aircraft, helicopters, drones and sub-sonic cruise missiles at a range of 25-km, will begin in 18 months
- The indigenous SAM – produced by defence PSUs Bharat Electronics and Bharat Dynamics -- is now finally being inducted in large numbers

New Delhi: The IAF on Friday got a long-delayed booster shot to shore up its air defence capabilities, with a Rs 5,400 crore deal being inked with defence PSU Bharat Electronics for seven additional squadrons of the indigenous Akash surface-to-air missile systems.

Sources said the delivery of the new Akash-2 squadrons, which are geared to intercept hostile aircraft, helicopters, drones and sub-sonic cruise missiles at a range of 25-km, will begin in 18 months. “All the seven squadrons will be delivered within three years,” said a source.

IAF had earlier ordered eight Akash-1 missile squadrons for Rs 6,200 crore, six of which are deployed in the north-east to counter China’s build-up of military infrastructure all along the Line of Actual Control, which includes eight fully-operational airbases in Tibet. The other two squadrons have come up at the Mirage-2000 fighter base in Gwalior and Sukhoi-30MKI base in Pune.

The Army, in turn, has inducted two Akash regiments at a cost of Rs 14,180 crore, while another two are in the pipeline. The fully-automated Akash air defence missile systems, which have all-weather capability and can handle multiple aerial threats attacking from several directions simultaneously, are meant to prevent enemy fighters, helicopters and drones from attacking vital military installations and bases.

Using an integrated two-stage Ramjet rocket propulsion technology, the sleek 5.6-metre-long Akash is powered by an air-breathing engine to carry a payload of 60 kg. The Akash, incidentally, was one of the five core missile systems of the integrated guided missile development programme launched by DRDO in 1984.

After long delays due to technical problems, the indigenous SAM – produced by defence PSUs Bharat Electronics and Bharat Dynamics -- is now finally being inducted in large numbers into the armed forces.

<https://timesofindia.indiatimes.com/india/rs-5400-crore-deal-inked-for-7-more-squadrons-of-akash-missiles/articleshow/71116926.cms>



## Hindi a symbol of unity: SASE Director

Chandigarh: To promote the use of the national language, a Hindi Diwas samaroh was organised by the DRDO's Terminal Ballistics Research Laboratory (TBRL) at its range in Ramgarh near here today.

The programme was inaugurated by Naresh Kumar, Director, Snow and Avalanche Studies Establishment (SASE), Chandigarh, and Dr Manjit Singh, Director, TBRL. Naresh Kumar said Hindi was a symbol of national unity and is the vessel of Indian culture and heritage. Dr Manjit Singh said the promotion of national language was important for the development of national spirit.

On this occasion, "Chal Shield" for outstanding work done in Hindi for the year 2018-19 was awarded to the Director's Secretariat in TBRL. The trophy was received by Manoj Athwal, Technical Staff Officer, along with other members of the secretariat. Winners of various competitions and the writers of best articles were also awarded.

- Chandigarh: The Tagore Literary Club of the Institute of Educational Technology and Vocational Education, Panjab University (PU), organised an essay-writing competition, dictation competition, poster making and slogan writing activities to mark Hindi Diwas on Friday.
- The topic of the event was "Hindi, Hind Ki Dhadkan". As many as 25 students from the institute participated in the poster-making contest and slogan-writing contest and 20 students participated in essay-writing and dictation. During the celebrations, students showcased their talent and creative skills.
- Dr Kanwalpreet Kaur, Chairperson of the institute, highlighted the importance of 'Hindi' as 'Matre Bhasha'. She gave a brief description of history of this language. Event coordinator Amritpal Kaur described the changing face of Hindi in the present scenario through her presentation. All faculty members were presented to make this programme a success. TNS

<https://www.tribuneindia.com/news/hindi-a-symbol-of-unity-sase-director/832365.html>