

# IADN STRATEGIC FOCUS

...Empowering Strategic Minds since 2012.

## Editing and Compilation

Mr. Shantanu K. Bansal

## Editorial Team

Mr. Ankit Kumar  
Dr. Biplab Rath  
Ms. Aditi Dubey  
Mr. Ashwan Paikray  
Mr. Pazdin M. Dalal

## Designing and Illustration

Mr. Saurav Jain  
Mr. Kuldeep Patel

## Communications and Web Support

Mr. Khan Mubeen  
Mr. Anung W. Elemenz  
Mr. Adway Gupta

## Production

Mr. Herron Waskel  
Mr. Rakesh Raushan, HAL

## Contact

[Contact@iadnews.in](mailto:Contact@iadnews.in)

## Disclaimer

Facts and figures provided in the document do not reflect the opinion and belief of the website or its affiliates. Pictures are for representation purpose only.

**All Rights Reserved**  
[www.iadnews.in](http://www.iadnews.in)

## WEAPON TRIALS

### ALCM BRAHMOS TESTED

Air Launched Brahmos Extended Range missile was successfully test fired by Defence Research and Development Organisation (DRDO) from Su30MKI aircraft. The missile successfully hit a designated target in Bay of Bengal. It was the first launch of ER version from Su30MKI.

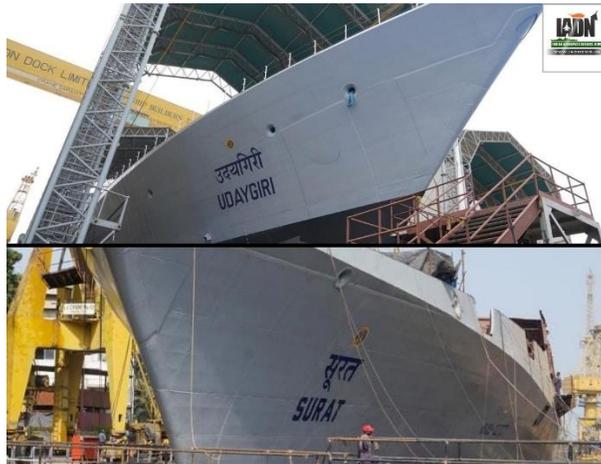
### NASM-SR LAUNCH

On 18th May, maiden launch of indigenous Anti-Ship Missile NASM-SR from a Seaking helicopter took place. It is a light weight Antiship missile which can be carried from helicopters and even patrol aircrafts. It will replace Sea Eagle Missiles in capability. It will allow Navy to have a cheaper option to take out smaller vessels. The test was conducted by DRDO and Indian Navy, in collaboration.



NRSM-SR LAUNCH FROM SEAKING HELICOPTER

## NEW ACQUISITION AND PROCUREMENT



INS UDAYGIRI AND INS SURAT

### THE INDIAN NAVY LAUNCHES TWO INDIGENOUS FRONTLINE WARSHIPS—INS SURAT AND INS UDAYGIRI

Raksha Mantri Shri Rajnath Singh launched two frontline warships of the Indian Navy – ‘Surat’ and ‘Udaygiri’ - at Mazagon Docks Limited (MDL), Mumbai on May 17, 2022. ‘Surat’ is the fourth Guided Missile Destroyer of P15B class, while ‘Udaygiri’ is the second Stealth Frigate of P17A class. Both warships have been designed in-house by the Directorate of Naval Design (DND) and built at MDL, Mumbai.

### GRSE LAUNCHES SECOND SURVEY VESSEL (INS NIRDESHAK)

India has launched the second of the four Survey Vessels (Large) (SVL) Nirdeshak (Yard 3026) at Kattupalli, Chennai. During the ceremony, INS Nirdeshak made first contact with the waters of Bay of Bengal. The newly launched vessel derives its name from a former Indian Naval Survey ship, Nirdeshak, which was decommissioned in December 2014, after 32 years in service.



INS NIDRASHAK



**ASTRA MK-1 BVR**

## **ASTRA MK-1 BVR PROCUREMENT**

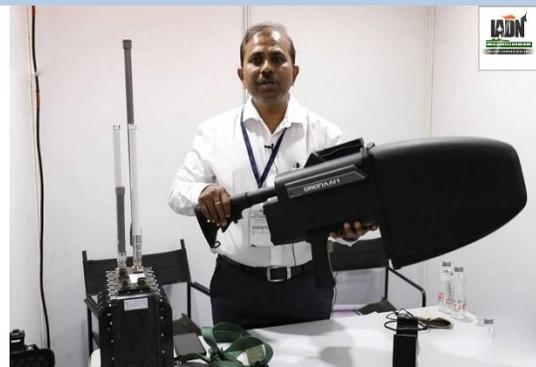
An order worth 2971 Crore rupees has been signed by MoD on behalf of IAF and IN with BDL for the production and supply of missiles. ToT from DRDO to BDL has been completed and soon Su30MKI squadrons will start getting software updates to integrate Astra BVR. The LCA Tejas and Mig29K are also intended to be integrated with Astra BVR.

## **KEEL LAYING OF SECOND SHIP – DIVING SUPPORT CRAFT AT M/S TITAGARH WAGONS LTD, KOLKATA**

Keel laying for the second ship of Diving Support Craft (DSC) project was held on 05 May 2022 at M/s Titagarh Wagons Ltd., Kolkata. The contract for procurement of Five Diving Support Craft (Yards 325 to 329) for the Indian Navy was signed on 12 February 2021 with M/s Titagarh Wagons Ltd., at a total project cost of Rs 174.77 Cr. On commissioning, these craft will provide diving assistance for IN ships inside and close to harbour, for underwater repairs, maintenance and salvage. The DSCs will be fitted with state-of-the-art diving equipment and tools for performing diving operations. With all main and auxiliary equipment sourced from indigenous manufacturers, these ships are proud flag bearers of Make in India initiatives of the Ministry of Defence.

## **GURUTVAA SYSTEMS DELIVERS FIRST SET OF 'DRONAAM' COUNTER DRONE SYSTEMS TO IAF**

Indian firm Gurutvaa Systems has delivered the first set of the indigenously developed 'Dronaam' Counter-unmanned Aircraft Systems (C-UASs) to the Indian Air Force. The C-CUAS is a military term for solutions that are designed to detect, track and ultimately disrupt and destroy Unmanned Airborne Vehicles (UAVs). Harshad Dave,



**DRONAMM COUNTER DRONE SYSTEM**



director of Gurutvaa Systems, said that “an undisclosed number of Dronaam C-UASs were delivered to the IAF earlier in May under a contract signed in August 2021.” The Gurutvaa Systems received the order in August last year and within a period of 8 months completed the designing activity, the proto building and approval and readiness of the first production batch of jammers. The Gurutvaa Systems shall fulfil the remaining part of the order in the next 4-5 months.

## SIX BOEING-767 CIVILIAN PLANES TO BE CONVERTED AS REFUELLING TANKERS



**DRDO BOEING 767**

Hindustan Aeronautics Limited (HAL) will convert six Boeing-767 civilian aircraft into mid-air refuellers for the Indian Air Force (IAF), for which it has entered into an agreement with Israel Aerospace Industries (IAI). The IAF has been looking to procure new mid-air refuellers for a long time.

## SOFTWARE DEFINED RADIO- TACTICAL (SDR-TAC) FOR INDIAN NAVY

Ministry of Defence (MoD) and Defence Public Sector Undertaking (DPSU) Bharat Electronics Limited (BEL) have signed a contract for procurement of Software Defined Radio Tactical (SDR-Tac) worth over Rs 1,000 crore in New Delhi on February 08, 2021. It is a joint venture between the Defence Research and Development Organisation's (DRDO), Weapons and Electronics Systems Engineering Establishment (WESEE), BEL, Centre for Artificial Intelligence & Robotics (CAIR) and the Indian Navy. The radio system itself is a four channel multi-mode, multi-band, 19 rack mountable, and ship borne design.

## SPICE BOMBS FROM ISRAEL'S RAFAEL ADVANCED DEFENCE SYSTEM

India has reportedly signed a secretive \$200 million deal for assorted Israeli materiel. In an anodyne press note, Israel's Rafael Advanced Defense Systems declared on December 23 that it had concluded a contract with 'an Asian country' to provide it bomb guidance kits, anti-tank guided missiles (ATGMs) and software-enabled radios, but declined to identify its customer or further elaborate.



## TECHNOLOGY FOCUS

### HAL AND BEL LONG RANGE DUAL BAND INFRA-RED SEARCH AND TRACK (IRST) SYSTEM FOR SUKHOI-30

The acquired IRST system will be a high-end strategic technology product in the field of defence avionics with features of televised day camera, infrared and laser sensors in a single window frame for air to air and air to ground engagements.

### MULTIPURPOSE VESSELS (MPV) BY L&T FOR INDIAN NAVY

Having multi-role support functions such as maritime surveillance & patrol, launching/ recovery of torpedoes and operation of various types of aerial, surface and underwater targets for Gunnery/ ASW firing exercises.

### LYNX U2 GUN FIRE-CONTROL SYSTEMS (GFCSS) FROM BEL

It is a Naval Gun Fire Control System (FCS) designed to acquire, track and engage sea targets. The system can be linked to AK176, AK630, A190 Russian-made naval guns and 30mm Close-In weapon System (CIWS) and the Oto Melara 76mm SRGM (Super Rapid Gun Mount) mounted onboard warships besides others.

### ARJUN MARK 1A TANKS BY DRDO

The indigenous third-generation Main Battle Tank (MBT) having composite armour and computer stabilized Fire Control Systems (FCS), which allow firing on the move as well as very high first hit probability on targets up to 2,000 meters away.



ARJUN MK1A

## INTERNATIONAL RELATIONS AND DEFENCE



**QUAD SUMMIT 2022**

### PRIME MINISTER MODI'S VISIT TO JAPAN TO STRENGTHEN BILATERAL TIES BETWEEN INDIA & JAPAN

Prime Minister Modi visited Japan on invitation of the Prime Minister of Japan, Fumio Kishida for QUAD summit in Tokyo. Although, the event was also accompanied by leaders of USA and Australia, PM Modi took a step further to make appointments with Japanese Prime Minister for reinforcing bilateral ties between India & Japan. While addressing the event PM said *“Economic cooperation between India and Japan is an important aspect of our Special Strategic and Global Partnership. During the March Summit, PM Kishida and I had announced our intention to realize JPY 5 trillion in public and private investment and financing over the next five years from Japan to India. During the forthcoming visit, I will meet with Japanese business leaders with the goal of further strengthening economic linkages between our countries, in pursuit of this objective.”*

### QUAD FELLOWSHIP PROGRAMME LAUNCHED DURING QUAD SUMMIT IN TOKYO

On May 24, the Quad Leaders' Meeting was held in Tokyo. The QUAD leaders have launched fellowship programme for 100 students from member countries who will be sponsored to study for masters and doctoral degrees (Science, Technology, Engineering and Mathematics - STEM) in United States. *"The QUAD fellowship*



*programme is a wonderful and unique initiative. This prestigious fellowship will offer our students great opportunities to pursue graduate and doctorate programmes in science, technology, engineering and maths. It will encourage academic excellence and promote people-to-people linkages between our countries,"* said Prime Minister Narendra Modi.

## GERMANY REFUSES TO SUPPLY ENGINES FOR PAKISTAN'S SUBMARINES

The government of Germany has reportedly refused to supply MTU 12V396 diesel engines from Germany's Motor and Turbine Union company to be equipped on a modified Hangor-class submarine that is based on the Chinese-origin Type 039B submarine meant for Pakistani Navy. The Hangor-class submarine is to be equipped with an AIP technology but the German government has prohibited the export of the engines to China because of their use for military purposes, as Germany is bound by a European Union arms embargo imposed on China in 1989 after the Tiananmen Square massacre.

## CYBER ATTACKS ACTIVITIES INCREASES BY FOLLOWING RUSSIAN-UKRAINE CONFLICT

According to the reports from a UK, Russian state sponsored hackers has targeted several European and American websites and network along with disrupting wind farms and internet service in Central Europe by attacking Viasat Co., a communication company having strategic importance based in Ukraine. The UK has also accused Russia for deploying *WhisperGate* Destructive Malware to launch subsequent cyber-attacks against Ukrainian cyberspace. As per reports, Russian-backed cyber groups are increasing cyber-attacks amid ongoing war on Ukraine.



**TYPE 093B SUBMARINE**



## INDIAN CONSIGNMENTS ARE REACHING OUT TO SRI LANKA TO SAVE THE ISLAND FROM FURTHER ECONOMIC DISASTERS

India is continuously sending financial assistance and consignments to rescue Sri Lankan economy which is currently under major crisis. Sri Lanka has also assisted with a temporary relief from energy shortages and rolling blackouts with a \$500 million loan from India to finance urgent oil purchases for the cash-strapped nation. The other consignments sent by India to Sri Lanka included 25 tonnes of medical supplies, 900 metric tonnes of rice, 50 metric tonnes of milk powder with 2 billion additional as humanitarian aid.

## INDIA WILL CONTINUE PROVIDING HUMANITARIAN AID TO AFGHANISTAN



INDIAN CONSIGNMENT TO SRI LANKA



INDIAN CONSIGNMENT TO SRI LANKA

As per the statements released by Ministry of External Affairs, India has continued to provide humanitarian assistance to Afghanistan, particularly supplies of wheat, medicines and vaccines. While responding to the query on reopening of Indian Embassy in Kabul, MEA Spokesman Arindam Bagchi said that *“following the sharp deterioration in security situation in Kabul in August last year, Ministry had to relocate all India-based personnel out of Afghanistan”*. US Envoy to Afghanistan Thomas west has applauded India’s continuous efforts and assistance to Afghanistan. US Envoy tweeted while commending that *“India is providing critical humanitarian aid, has interests to protect, and brings enormous capability and experience to support the Afghan people. We’ll continue to partner with India and others in the region to advance shared goals.”*

## IRAN'S URANIUM STOCKPILE INCREASES BY 18% SINCE 2015

In a recent report public by IAEA has estimated that Iran's enriched Uranium stockpile has drastically increased by 18% even after the signed Tehran deal compromised between Iran and West in 2015. The estimated stockpile of enriched Uranium has been said about 3809.3 kg crossing the already set limit of 300 kg of a specific compound, that equals to 202.8 kg of Uranium. Iran has been accused for continuous default and violation of 2015 Tehran deal. IAEA also reported that Iran has continued its enrichment of Uranium to higher levels against the set limit of 3.67% in Tehran deal. The stockpile of enriched Uranium in Iran's court has increased by 9.9 kg as the enrichment crosses 60%. Almost 90% of enriched Uranium is required to use in a nuclear weapon.

## CHINA HITS TAIWAN'S AEROSPACE SECOND TIME IN A YEAR

China has hit Taiwan with second largest incursion into its Aerospace this year. Taiwan has reported that almost 30 jets entered the Taiwan's Aerospace, including more than of 20 fighter jets. Taiwan's defence ministry said that Taiwan had hastened its aircraft and deployed air defence missile systems to monitor the latest Chinese incursion. In recent years, China has begun sending large sorties into Taiwan's defence zone to provoke Taiwan's security and creates pressure on Taiwan's sovereignty.



**IRAN'S URANIUM STOCKPILE**

## SPECIAL HIGHLIGHT

### INS GOMATI (F21) DECOMMISSIONING



### INS GOMATI (F21)

The 3rd and the last ship of *Godavari* Class frigate, INS Gomati was decommissioned after 34 long years of service. She was the part of the first indigenous class of frigates for Indian Navy. Originally based on *Leander* Class of British origin, she was later upgraded to be a multirole vessel.

The ship was capable to carry 2 SeaKing helicopters, she was the leading Anti-Submarine Warfare (ASW) platform of the Indian Navy. Over the time, she received upgrades like Barak 1 SAM and OTO Melara 76mm SRGM. Her sister ships had already been decommissioned. The capability gap left will be filled by the Talwar and Nilgiri Class stealth frigates.