



CDIIC—Newsletter

CODISSIA Defence Innovation and Atal Incubation Volume I, Issue I

Special points of interest:

- **Indigenization Opportunities @ CDIIC**
- **Links about BEML 'Make In India Display Center**
- **The Atal Innovation Mission**

Introduction

CDIIC – CODISSIA Defence Innovation and Atal Incubation Centre – is a not-for-profit, Section 8 Company, established by the initiative of its founding association – Coimbatore District Small Industries Association (CODISSIA) on 10th January, 2019.

India's First Defence Innovation Hub awarded to CODISSIA in the name of CDIIC, by the then Hon'ble Defence Minister, Smt. Nirmala Sitharaman

CDIIC is one-of-its kind in the Country as it aims to cater to the Defence Forces; Micro, Small and Medium Enterprises (MSMEs)/Small and Medium Enterprises (SMEs) and to Entrepreneurs/Start-ups in need of assistance.



CDIIC intends to act as a link between the Defence Sector and the industry that identifies the requirements of the defence; the skill of a company/start-up to fulfil the requirements and bridges the gap between the same.

CDIIC has a strong team of senior and experienced individuals to provide the required guidance and mentorship to our members.

Team CDIIC

Mr. R. Ramamurthy, Director

Mr. V. Sundaram, Director

Mr. E.K. Ponnusamy, Director

Mr. M.V. Ramesh Babu

Mr. K. Viswanathan

Mr. K.V. Ganapathy

Mr. C. Velumani

Mr. S. Soundararajan

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Raksha Mantri Shri Rajnath Singh flags off 51st K9 VAJRA-T Gun from L&T Armoured System Complex in Gujarat

Raksha Mantri Shri Rajnath Singh flagged off 51st K9 VAJRA-T Gun from Larsen & Toubro (L&T) Armoured System Complex at Hazira in Gujarat today. He called for active participation of the private sector in defence manufacturing, reaffirming the Government's commitment to make India an arms manufacturing hub and net defence exporter. While Shri Rajnath Singh acknowledged the increasing participation of the private industry in defence production, he stressed that a lot still needs to be done to make India a global defence manufacturing hub.

Some of the reforms highlighted by Raksha Mantri include setting up of Defence corridors in Uttar Pradesh and Tamil Nadu; simplification of industry licensing process; increase in Foreign Direct Investment (FDI) cap; steps to promote defence exports; streamlining of Defence offsets policy; establishing Defence Investor Cell; providing Government-owned trial and testing facility to the private sector and schemes for startups and small & medium enterprises to promote innovation. He also mentioned that the Strategic Partnership (SP) model has been introduced in the Defence Production Policy under which private sector will be able to manufacture fighter aircraft, helicopters, submarines and armoured vehicles and emerge as global giants. Shri Rajnath Singh commended L&T for ensuring their participation under the SP model.

Source: <https://pib.gov.in/newsite/pmreleases.aspx?mincode=33>



DRDO policy for transfer of technology

The DRDO policy and procedures for transfer of technology, compiled by the Directorate of Industry Interface and Technology Management (DIITM), is intended to facilitate the transfer of technology (ToT) to industries from the DRDO in a transparent and efficient manner with a level playing field to all industries. It provides a complete mechanism for transferring DRDO technologies to industries with handholding support for complete absorption of the technology by the industry, thereby enabling the indigenous manufacturing of critical defence products and technologies. The DRDO is mandated to develop defence technologies, systems and products which are conducted by its network of laboratories. Such technologies, when matured, are transferred to industries, including DPSUs and private, for production along with the relevant knowhow and support. A number of Standard Operating Procedures (SOPs) have been issued in the previous years by way of clarifications and for simplifying procedural aspects. A need was felt to frame a ToT policy and separate it from procedures with the objective to disseminate DRDO developed technologies through a framework that ensures seamless transfer of technology.

Link: <https://drdo.gov.in/transfer-technologies>

Fourth Armed Forces Veterans Day

Since 2017, Armed Forces Veterans Day is observed each year on 14th January as a mark of respect and recognition of the services rendered by Filed Marshal KM Cariappa OBE - the first Indian Commander-in-Chief of the Indian Armed Forces who retired on 14 Jan 53. Commemoration of Armed Forces Veterans Day acknowledges and honours the selfless devotion and sacrifice of our veterans in the service of the nation.

This year, the 4th Armed Forces Veterans Day at Delhi will commence with a homage ceremony at the National War Memorial, where wreaths will be laid by CISC, serving three star officers as well as veteran

Indian Navy to Get Upgraded Fuel HFHSD – IN 512

One of the Key Result Area for Indian Navy has been fuel quality standards revision to keep pace with induction of new technology equipment and meet contemporary emission standards. With the advent of technology and refining techniques in the petroleum industry better quality of fuel abiding to more stringent specifications has become a necessity. Hence, continuous improvement in technical specification for diesels is the primary focus area. Leveraging technology and improved refining techniques available with the country's petroleum industry, the Indian Navy in collaboration with M/s IOCL carried out an extensive and thorough study and a comparative evaluation of existing international regulations (ISO, MARPOL, NATO etc). As an outcome, a revised technical specification was arrived at consisting of 22 test parameters including critical parameters cetane number, flash point, sulphur content, sediment content, oxidation stability and Cold Filter Plugging Point (CFPP). The new specification will not only ensure a better quality fuel but also result in a reduced carbon footprint **On 13 January 2020, the launch of the new fuel (High Flash High Speed Diesel) HFHSD – IN 512, with revised technical specifications was undertaken.** With this, the country will be able to ensure interoperability amongst foreign navies during fleet exercises and provide fuel of quality better than that mandated to all foreign navies under bilateral/ multi-national logistics support pacts including LEMOA (Logistics Exchange Memorandum of Agreement). Source: <https://pib.gov.in/newsite/pmreleases.aspx?mincode=33>

The Developmental Naval LCA Achieves Major Technological Milestone

The developmental LCA (N) MKI achieved an important milestone on 11 Jan 20 with the successful Arrested Landing on board the naval aircraft carrier INS Vikramaditya. The aircraft was piloted by Commodore JA Maolankar who also undertook the maiden Ski Jump Take-Off from the carrier today - 12 Jan 20. A Technology Demonstrator, LCA (Navy) has earlier been successfully tested during extensive trials at the Shore Base Test Facility at the Naval Air Station at Goa. With the completion of this feat, the indigenously developed niche technologies specific to deck based fighter operations have been proven which will now pave the way to develop and manufacture the Twin Engine Deck Based Fighter for the Indian Navy, which is expected to proudly fly from the aircraft carriers by the year 2026. This landmark event demonstrates the professional commitment and synergy between various agencies including ADA, HAL, CEMILAC and Indian Navy in harnessing the potential of our scientists, engineers and naval flight testing community towards meeting the expectations of the nation. <https://pib.gov.in/newsite/pmreleases.aspx?mincode=33>

Know about your force

INDIAN ARMY	INDIAN NAVY	INDIAN AIR FORCE
General	Admiral	Air Chief Marshal
Lieutenant General	Vice Admiral	Air Marshal
Major General	Rear Admiral	Air Vice Marshal
Brigadier	Commodore	Air Commodore
Colonel	Captain	Group Captain
Lieutenant Colonel	Commander	Wing Commander
Major	Lieutenant Commander	Squadron Leader
Captain	Lieutenant	Flight Lieutenant
Lieutenant	Sub-Lieutenant	Flying Officer

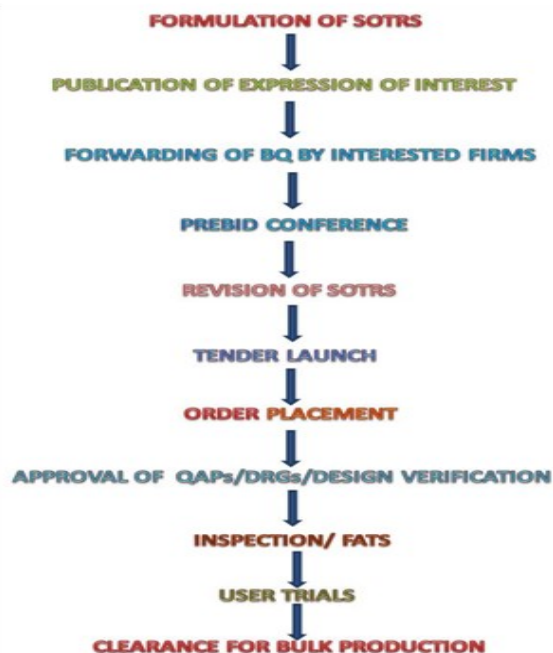
Indigenization

Indian Navy:

Indigenous Development Routes Followed by IN.

Indian Navy undertakes indigenous development of equipment and systems through Public and Private Sector routes. IN also interacts with industry organizations such as CII/ FICCI/ ASSOCHAM, R&D Organizations and academia for active participation in development of equipment and systems.

Link: <https://www.indiannavy.nic.in/content/existing-procedures-indigenisation>



Indian Naval Indigenisation Plan (INIP) 2015-2030

INIP is aimed to enable indigenous development of equipment and systems over the next 15 years. It attempts to formulate the requirements of Indian Navy and lists out the equipment which can be taken up for indigenisation in the coming years. It is expected that release of this plan would further synergize Indian Navy's relationship with the industry and encourage all sectors of industry to come forward and participate in indigenous development of weapons, sensors and other high end equipment for the Indian Navy, thereby making the nation self-reliant in this vital domain of defence technology.

Link: https://www.indiannavy.nic.in/sites/default/themes/indiannavy/images/pdf/naival_initiatives/INIP_2015-2030.pdf

BEML 'Make In India Display Center

BEML is setting up 'Make in India' Display Centre at our facility in Bangalore Complex, New Thippasandra, Bangalore – 560075, where prospective vendors can have access to samples, drawings and technical specifications. Interested vendors can visit the facility to explore opportunities to partner with BEML (Click Flowing Topic's).

Source: Link: <https://www.bemlindia.in/Initiatives.aspx>

- [Defence](#)
- [Mining and Construction](#)
- [Rail and Metro](#)
- [Imported Components Photos](#)

Indigenization Opportunities @ CDIIC

CDIIC has recently received a requirement for the **Indigenous development of 10 by Type GSEs: MiG29K/KUB** from Commodore Superintendent, Naval Aircraft Yard, Dabolim, Goa. The list is given below:

SERIAL NO.	ITEM	END USE
(A)	SLING FOR INSTALLATION OF 01 UNIT AND OPTICAL LOCATOR STATION ON THE AIRCRAFT	FOR LIFTING OF 01 UNIT (RADAR SCANNER AND ACCESSORIES) AND OLS-UE TO THE AIRCRAFT
(B)	AIRCRAFT TOW-BAR	TO TOW THE AIRCRAFT ON DISPERSAL AND HANGAR
(C)	ALIGNMENT TARGET	TO ALIGN THE AIRCRAFT HEAD-UP DISPLAY AND WEAPON SYSTEMS
(D)	SLING FOR LIFTING OF FOR RD-33 MK ARTICLE IN CONTAINER	TO LIFT AND LOWER RD-33MK ENGINES FROM / INTO CONTAINERS
(E)	SUPPORT FOR UNIT 01	USED FOR STORAGE OF UNIT 01 ON GROUND
(F)	DEVICE FOR ENGINE INSTALLATION AND REMOVAL	FOR THE INSTALLATION AND REMOVAL OF ENGINE ON / FROM THE AIRCRAFT
(G)	CANOPY RETAINER	USED TO PREVENT ACCIDENTAL CLOSING OF THE CANOPY DURING SERVICING
(H)	LADDER	FOR CLIMBING UP / DOWN FROM THE AIRCRAFT
(I)	SECOND COCKPIT LADDER	FOR CLIMBING UP / DOWN FROM THE REAR COCKPIT
(J)	HYDRAULIC JACK	BOTTLE JACK USED FOR LIFTING OF MLG AND NLG WHEELS DURING TYRE REPLACEMENT
(K)	BRACKET FOR REMOVAL OF MLG WHEELS	TO RETAIN HYDRAULIC JACK (J) DURING MLG WHEEL REMOVAL
(L)	BRACKET FOR REMOVAL OF NLG WHEELS	TO RETAIN HYDRAULIC JACK (J) DURING NLG WHEEL REMOVAL

Those interested may revert to info@cdiic.in



The Atal Innovation Mission

AIM is a flagship initiative set up by the NITI Aayog to promote innovation and entrepreneurship across the length and breadth of the country, based on a detailed study and deliberations on innovation and entrepreneurial needs of India in the years ahead.

AIM is also envisaged as an umbrella innovation organization that would play an instrumental role in alignment of innovation policies between central, state and sectoral innovation schemes incentivizing the establishment and promotion of an ecosystem of innovation and entrepreneurship at various levels - higher secondary schools, science, engineering and higher academic institutions, and SME/MSME industry, corporate and NGO levels.

Long term goals of AIM include establishment and promotion of Small Business Innovation Research and Development at a national scale (AIM SBIR) for the SME/MSME/startups, and in rejuvenating Science and Technology innovations in major research institutions of the country like CSIR (Council of Scientific Industrial Research), Agri Research (ICAR) and Medical Research (ICMR) aligned to national socio-economic needs.

Atal New India Challenge

One of Atal Innovation Mission's primary goals is to incentivize innovation in areas critical to India's growth, such as health, housing, hygiene, energy and water. Researchers have long talked of the 'Valleys of Death' at the early stage and commercialization stage in taking innovations to market. The Atal New India Challenge aims to address the second Commercialization Valley of Death, in which innovators are unable to access resources for piloting, testing, and market creation.

The Atal New India Challenge is an open call to design and demonstrate market-ready products based on cutting edge technologies in identified focus areas. Applicants showing capability, intent, and promise to be able to productize technologies will be awarded grants of upto 1 crore, strictly on a milestone basis.

Focus areas for Atal New India Challenge

In the current round of Atal New India Challenge, applicants seeking commercialization of products and technologies in the one of the following focus areas listed in the link are invited to submit their proposal:

Link: <https://aim.gov.in/atal-new-india-challenge.php>

Infinion India in partnership with Start-Up India (Ministry of Commerce and Industry, Govt of India) has opened a Artificial Intelligence Challenge for Startups and College Students.

Application Deadline – 25th Feb 2020

Problem Statement

We are looking for an Intelligent Document Finder tool that can provide easy and intelligent searches among the document files. The required document type includes presentations, pdf, doc and txt files. The main idea behind this problem statement is combining human tagging with an automated semantic search for efficient document finding. The tool is supposed to have manual as well as auto tagging capabilities. Once the documents are tagged, the user will enter a few queries in the search page of the tool to look for the most relevant documents.

Explanation:

Teams are expected to come up with a website application with following features implemented:

- Multiple document type support(.pptx, .pdf, .txt, .docx)
- Support for data import from SQL databases and storage directories
- The tool must provide automatic tagging based on the content present inside the particular document. Automatic tagging must be document specific and meaningful enough to help in query search.
- There must be an interface to provide manual tags for each document by highlighting the contents or entering it as free text.
- Semantic search across all the available documents based on the user's query. The result should contain a list of documents against the entered query with the most relevant document on the top. The tool should be intelligent enough to understand that semantically White house is similar to RashtrapatiBhavan.
- Abstractive summarization of the available files to give the user an overview of the contents present in that file
- It should be an OS independent web application with support for multiple browsers. i.e. Chrome, Firefox and IE

APPLY : <https://www.startupindia.gov.in/content/sih/en/ams-application/challenge.html?applicationId=5df1b7aae4b04e009527b4b5>

CDIIC—Events



INDUSTRIAL VISIT TO NAVAL AIRCRAFT YARD AND COCHIN SHIPYARD, KOCHIN

- Around 50 members from CODISSIA and Indian Chamber of Commerce and Industry participated.
 - On **16th October 2019**, the delegates visited the Naval Aircraft Yard
 - A detailed presentation about the Naval Aircraft Yard and their required items for maintenance was given by the Naval officials.
 - The delegates were taken around the Helicopter Service hangers for a visit and the products required by them were displayed.
 - On **17th October 2019**, the delegates visited Cochin Ship Yard and they were taken to see the Patrol Ship completely and explained about their service requirements.
 - Mr. R. Ramamurthy, President, Mr. M. V. Ramesh Babu, Vice President and Mr. P. S. Devaraj, Hon. Secretary, had a meeting with Commodore Deepak Bansal, Chief Staff Officer (Tech), HQ Naval Aviation, Goa, along with Commodore Ramesh M.S. Menon, Commodore Superintendent, Naval Aircraft Yard.
- On 18th October 2019**, Mr. R. Ramamurthy, President, Mr. M. V. Ramesh Babu, Vice President, Mr. P. S. Devaraj, Hon. Secretary, went to Cochin Ship Yard Limited and had a discussion with Mr. K. N. Sreejith, Chief General Manager, Ship Repair, Mr. S. R. Unnigopan, Deputy General Manager, Ship Repair, Mr. A. Vetrivelan, Deputy General Manager-Materials and Mr. V. Srikanth, Asst. General Manager – Materials, Cochin Shipyard and requested them to visit Coimbatore for a Vendor Registration Meet which will be organized by CODISSIA for its members, during 2nd week of November 2019.

Opportunities in Defence Manufacturing and Understanding of Defence Procurement Process'

One-Day Workshop on 'Opportunities in Defence Manufacturing and Understanding of Defence Procurement Process' on 23rd November, 2019 from 9:30 am to 5 pm at CODISSIA Trade Fair Complex.



Interactive Meeting With Commanding-in-Chief, HQ Southern Naval Command



Interactive Meeting with Naval Officials on the Maiden Visit of Vice Admiral Anil Kumar Chawla, AVSM, NM, VSM, Flag Officer Commanding-in-Chief, HQ Southern Naval Command on 28th November, 2019 from 4 pm to 5 pm at CODISSIA

Interaction Meeting with the officials from the College of Defence Management, Secunderabad



Interaction Meeting with the officials from the College of Defence Management, Secunderabad, on the topic – 'Defence Technology Corridor and its Impact on India's Defence Industrial Base' at 6.30pm – Monday, 9th December 2019 at Alumni Hall, PSG Institute of Management

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