



# CDIIC—Newsletter

CODISSIA Defence Innovation and Atal Incubation Centre

Volume I, Issue 2

## Special points of interest:

- **Defence Expo 2020**
- **Links about Indigenization @ our Army, Air force & Navy**
- **The Atal Innovation Mission**

## Inside this issue:

Defence Expo	2
Indigenization	3
HAL opportunities	4
CDIIC—Events	5

## Introduction

‘**CDIIC** – CODISSIA Defence Innovation and Atal Incubation Centre’, a not-for-profit section 8 company, has been established by its founding association – CODISSIA, in the year 2019, with the aim of bridging the gap between the Defence requirements and the skilled Vendors and to provide the required hand-holding, support and guidance needed by individuals/start-ups to commercialise their products.

### CDIIC intends to integrate start-ups by:

**Identification** – CDIIC will identify talents, start-ups, ideas,

businesses, products and services by conducting Competitions/Hackathons and also through the requirements of customers.

**Innovation**— Start-ups/ businesses having proof of concept, prototype, IPR, etc., with potential business would be provided the required Mentoring and Technical support by CDIIC to help them commercialise their product and graduate from the incubation centre.

**Indigenisation** – CDIIC will identify the products/services

available for indigenisation by Defence for Import Substitution and intimate the same to the MSME/SME vendors. This will be done by routing information received directly from Defence forces/circulating the details posted on the official sites of Defence.

**Incubation** – CDIIC will provide Co-working space, test/lab facility, Seed funding, networking, etc., to the incubatees. CDIIC will create an AIC-specific start-up/ entrepreneurship facility for its incubatees.

## “Make in India, for India and for the world”.



Inaugurating the 11<sup>th</sup> Defence Exposition (DefExpo 2020) in Lucknow, Prime Minister (PM) Narendra Modi called on international defence manufacturers to “Make in India, for India and for the world”. “In 2014, defence exports were Rs 2,000 crore. Now India has exported Rs 17,000 crore worth of defence equip-

ment. In the next five years, we must ensure defence exports cross Rs 5 billion, or Rs 35,000 crore and Rs 1,700 crore in FDI has flowed into defence manufacture. Government has floated themes on Innovations, citing advanced technologies such as Internet of Things, Big Data analysis and 3D printing”.

PM pointed that for Innovations for Defence Excellence (iDEX) scheme to be fleshed out and scaled up, government has set an aim of creating 200 new defence start-ups. “It is our endeavour that this would lead to the creation of 50 new technologies and products. It has been estimated that 20-25 per cent reduction in defence imports could create additional 100,000-120,000 highly skilled jobs in India and raising domestic procurement over the next five years from 40 per cent to 70 per cent of overall procurement would double India’s defence industry output”. PM said that two large defence manufacturing corridors (One in Tamil Nadu and the other in Uttar Pradesh) are being constructed in India. In order to give further impetus to defence manufacturing in India new targets have been set to bring the number of MSMEs in the field of defence production beyond 15 thousand in the next 5 years.

## DEFENCE EXPO 2020 IN LUCKNOW FROM 5-9<sup>TH</sup> FEB- RUARY 2020

The Defence Ministry hosted the 11<sup>th</sup> edition of the two-yearly international defence exhibition, on February 5<sup>th</sup>-9<sup>th</sup>, in Lucknow, with the theme – ‘**Digital transformation of defence.**’

DefExpo was held for the first time in Lucknow. Delhi was its venue right from the first event in 2016, but the event was taken out of there for the first time, to Goa. The next show of 2018 was shifted to Tamil Nadu. The MoD has identified Tamil Nadu and Uttar Pradesh as locations of two planned defence corridors.

## CDIIC—Newsletter

### HAL products hogged limelight at Defence Expo 2020

Hindustan Aeronautics Ltd. (HAL), the lead organiser and national exhibitor at the event, showcased models of its products – the Light Combat Aircraft or LCA ‘Tejas’, the Light Combat Helicopter LCH, the multi-purpose Advanced Light Helicopter (ALH), the Dornier-228 civil plane and the advanced jet trainer Hawk – at its indoor stall. A Sukhoi-30 MKI cockpit simulator upgraded by HAL was unveiled.

#### Flying displays

Flying displays mainly featured HAL’s fighter planes and helicopters:

- LCA
- Rudra, which is ALH Mk IV
- LCH
- Light Utility Helicopter (LUH) – on static display
- Do-228

Flying displays are part of a DefExpo for the second time this year – a trend started with the previous edition of 2018.

Other HAL products include avionics, accessories, assemblies, devices such as the Indigenous Digital Map Generator, Engine & Flight Display Unit, Gas Turbine Electrical Generator, Air Producer Engine, a glass cockpit for Do-228, Automatic Target Recognition and its Digital Sand Rapid Prototyping Technology. **Source:** *The Hindu, Coimbatore edition: Friday, 31<sup>st</sup> January 2020*

### DRDO exhibited more than 500 products in Defence Expo 2020

DRDO exhibited more than 500 products from all technology clusters in the five-day mega Defence Expo 2020 in line with the event's theme "Digital Transformation of Defence". The DRDO's participation was marked with the live demonstration of the Advanced Towed Artillery Gun System (ATAGS), the Main Battle Tank (MBT) Arjun MK IA, the Wheeled Armoured Platform (WhAP), the Counter Mine Flail, the 15m Advanced Composite Modular Bridging System (ACMBS) and modular bridge. DRDO showcased over 23 products in the India Pavilion at DefExpo, which was set up to showcase the combined strength of DRDO, public and private sector in defence manufacturing. Links:<http://www.indiandefensenews.in/2020/01/drdo-to-exhibit-more-than-500-products.html>

### Airbus showcased latest military products at Def Expo 2020

Airbus’ exhibits at the event included models of C295 aircraft which is considered as a tough, reliable and high-performance workhorse with outstanding lifecycle costs and excellent performance on short or unpaved runways. In addition, exhibits of the AS565 MBe Panther, the H145M and the H225M helicopters were also put on display.

Links:<http://www.indiandefensenews.in/2020/01/airbus-to-showcase-latest-military.html>

### Lockheed Martin showcased its diverse and robust technologies at Def Expo 2020

Lockheed Martin showcased its robust and diverse portfolio of defence and civil capabilities at the 11th biennial edition of DefExpo India-2020. On display, there was Javelin Anti-Tank Guided Missile system, the F-21, MH-60R “Romeo” SEAHAWK helicopter, C-130J Super Hercules and the S-92® multi-role helicopter. Another highlight was the Modernised Target Acquisition Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVIS), the advanced electro-optical fire control system used by AH-64D/E Apache helicopter pilots for long-range precision engagement and pilot capabilities in a day, night and adverse-weather missions; and precision-guided munitions. Links:<http://www.indiandefensenews.in/2020/01/lockheed-martin-to-showcase-its-diverse.html>

## Indigenization

### INDIGENIZATION OPPORTUNITY WITH INDIAN ARMY



The Indian Army holds a sizeable number of equipment of import origin. Limited quantity of spares is procured along with the equipment. By the time the equipment is exploited in the field, spare support from the OEM dwindles, as production lines are generally closed or are diverted to other products, due to the rapid change and advancement in the field of technology. The situation deteriorates when the equipment warrants overhaul and the spares availability is minimal. The performance of the equipment gradually degrades with time, due to non-replacement of unreliable spares/accessories. The support to such equipment at this stage gets confined to the indigenous efforts only. Thus, Directorate of Indigenisation (DOI) has been established under MGOs Branch/DGEME to undertake indigenisation activities.

**The Process of Indigenisation through DOI is clearly listed out in their website.**

The link for indigenisation process - <https://indianarmy.nic.in/Site/FormTemplate/frmTempSimple.aspx?Mnld=kMOtES6nZiM/AKPXmf2mCskHkD/9M3Npm/eEPO10qvs=&ParentID=p9AQAdk9XQ6Pxknk0C+clw==&flag=8CKP966uzg96kLov0aVWdfQ==>

**DOI also has listed out the items available for indigenisation in their website.**

The link for items for indigenisation - <https://indianarmy.nic.in/Site/FormTemplate/frmPhotoGallery.aspx?Mnld=Cu07ZNItwBETQmn9kv7Qkw==&ParentID=MabQW0TmfXbr62d7UqKaQ==&flag=8CKP966uzg96kLov0aVWdfQ==>

### INDIGENIZATION OPPORTUNITY WITH INDIAN AIRFORCE

About 200 Indigenisation Requirements of the Indian Air Force were displayed at Defence Expo. The Details of the requirements are uploaded on the IAF website [www.indianairforce.nic.in](http://www.indianairforce.nic.in) and include various categories like Airbrone, Ground System and Ground Equipment. The list of indigenisation requirements can be accessed through the given link - <https://indianairforce.nic.in/sites/default/files/16AUG2019nn.pdf>



### INDIGENIZATION OPPORTUNITY WITH INDIAN NAVY

The Indian Navy published the first version of the Naval Aviation Indigenisation Roadmap (2017-22) in October 2017. The first version of this Roadmap has now been revised after taking into consideration the changing requirements, based on various factors such as user demands, actual consumption, availability, strength / expertise of domestic industries, etc. This document titled '**Naval Aviation Indigenisation Roadmap (2019-22)**' encompasses approximately 575 items of flight and non-flight critical nature. The approximate quantity of the items required is also mentioned in this document, for the benefit of the indigenisation Partners. Photographs of components (where available) and their nature (Flight / Non-Flight Critical) have been also mentioned, aircraft-wise. The list of products in Naval Aviation Indigenisation roadmap 2019-22 Source: : <https://www.indiannavy.nic.in/content/naval-aviation-indigenisation-roadmap-2019-22roadmap-2019-22>



Those interested may revert to [info@cdiic.in](mailto:info@cdiic.in)

## INDIGENIZATION OPPORTUNITY WITH HAL

With the aim of promoting defence production/ manufacturing & inline with Government of India's vision to promote indigenous development, CDIIC has identified the following requirement of HAL (Hindustan Aeronautics Ltd.) under the Make II Procedure . In the Make II category, no upfront funding is envisaged for prototype development purposes but Supplier has assurance of orders on successful development, trials and certification of the prototype as per Make II policy framework being adopted by HAL. . In this context, initial tentative list of items with approximate quantity per annum (as mentioned in the Make II portal) which are mainly required for Production and Repair overhaul programme of Aircraft/ Helicopter/ Engines/ Systems etc.have been hosted in HAL website under the link [https://hal-india.co.in/MAKE-II/M\\_396](https://hal-india.co.in/MAKE-II/M_396) as HAL Make-II procedure.The tentative lists of items which can be taken up under Make-II are also hosted in HAL website under the link [https://hal-india.co.in/MAKE-II/M\\_396](https://hal-india.co.in/MAKE-II/M_396) as "List of Items for MAKE-II at HAL along with Division wise Nodal Officers". In case of any queries/clarification, you may please contact GM (Indigenisation), HAL, CO at [gm.indg@hal-india.co.in](mailto:gm.indg@hal-india.co.in)

**You are requested to explore the possibility of taking up the indigenous development of suitable items mentioned above and kindly confirm your willingness or mark a copy of your communications with the concerned defence force/unit to [info@cdiic.in](mailto:info@cdiic.in), so that we are able to support you with the further follow up of your projects with the defence.**

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**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.

## AIM - SANGAM VENTURES - THE LAND ACCELERATOR SOUTH ASIA 2020

This June in New Delhi, World Resources Institute and Sangam Ventures are hosting the Land Accelerator.

The Land Accelerator, anchored by a six-day workshop, the four-month program trains and supports entrepreneurs whose companies restore degraded farms and forests by planting trees, boosting crop yields, and introducing innovative technologies. By fostering entrepreneurship, this first-of-its-kind program provides a cost-effective approach to restore – and develop – rural areas across South Asia.

**Application Deadline: 15 March,**

Please access through this link for registration <https://thelandaccelerator.com/apply/land-accelerator-south-asia/>

## CDIIC—Events

### UK Future Mobility Delegation Meeting held at Chennai on 30th January, 2020.

Mr. V. Sundaram, Director and Mr. S. Soundararajan, Member, along with Dr. B. Vinodh Kumar, GM, attended the UK Future Mobility Delegation meeting held on 30.01.2020 at British Embassy, Chennai. They had a chance to interact with all the representatives of the participating companies. Not only did this interaction result in the expansion of our network, but also gave CDIIC an opportunity to explore business with the UK companies in fields of E-vehicles, IOT and data analytics.



### Lucknow Def Expo 2020 from 05<sup>th</sup> to 09<sup>th</sup> February, 2020

CODISSIA put up a stall and Dr. B. Vinodh Kumar, GM-CDIIC participated in the event as a representative of CODISSIA. This was a golden opportunity to introduce CDIIC to all the attendees / visitors. General Bipin Rawat, Chief of Defence Staff (CDS) of India, Thiru. P. Benjamin, Minister of Rural Industries including cottage and small scale, and other senior officials from SIDCO, TIDEL Park and Defence Forces visited our stall. Over 40 new contacts were successfully established.



### 3rd Aviation Innovation Exposition 2020 on 11th February, 2020



CODISSIA occupied a stall space in the expo at Naval Aircraft Yard, Kochi and GM-CDIIC participated in the event as a representative of CODISSIA. Presentations about CODISSIA and CDIIC were given at the event. About 20 new contacts were established, 2 indigenisation requirements collected and over 15 enquiries for CDIIC registration were received.

### Visit to Defence Industries Production (DIP) wing on 19th February, 2020

Mr. R. Ramamurthy, President, CODISSIA, visited New Delhi on 19.02.2020 and met Shri. Sanjay Jaju, Joint Secretary, DIP and updated the status of CODISSIA Defence Innovation and Atal Incubation Centre (CDIIC). He briefed Joint Secretary, DIP about the list of activities carried out at CDIIC supporting Defence Indigenization and CODISSIA's preparedness in implementing the Incubation Center.



## Industrial Visit of Lt. Gen. S. K. Upadhyha, PVSM, AVSM, SM, VSM, Master General of Ordnance, Indian Army and his team to Pricol and Mak Controls on 21.02.2020



CODISSIA organised industrial visit of Lt. Gen. S. K. Upadhyha, PVSM, AVSM, SM, VSM, Master General of Ordnance (MGO), Indian army along with his team, to Pricol and Mak Controls on 21.02.2020 at Coimbatore. The companies had an opportunity to share their concerns and difficulties related to defence procurement and supply to the MGO, who duly noted down their points and assured to bring a solution to the issues.

## Interactive Session with Lt. Gen. S. K. Upadhyha, PVSM, AVSM, SM, VSM, Master General of Ordnance, Indian Army held on 22.02.2020 at Hall D, Seminar Hall, CODISSIA Trade Fair Complex



CODISSIA and CII had co-organised an interactive session with Lt. Gen. S. K. Upadhyha, PVSM, AVSM, SM, VSM, Master General of Ordnance (MGO), Indian army on 22.02.2020 at Coimbatore. The event witnessed a series of activities like the video presentation by CODISSIA, address by the chief guest, presentations given by Brig. Shailendra Malik, Dte. Of Indigenisation, Indian Army; Dr. D. K. Varadharaj, Senior Quality Assurance Officer, DGQA and Mr. Ramesh Mahadevan, Business Facilitator, GeM, before the interaction of MGO with the audience. The session proved fruitful for the attendees, whose concerns/queries regarding defence production/supply were duly noted and assured to be taken forward by the MGO.

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