



## 12<sup>th</sup> DEFEXPO

### International Conferences by ASSOCHAM

# Technologies Required for Manufacturing of an Indigenous Aero Engines for Atmanirbhar Bharat & Futuristic Technology for Defence Production

18<sup>th</sup> - 22<sup>nd</sup> October, 2022, Gandhinagar, Gujarat



The Associated Chambers of Commerce and Industry of India

# Technologies Required for Manufacturing of An Indigenous Aero Engines for Atmanirbhar Bharat

18<sup>th</sup> October 2022, 03:30 pm - 05:30 pm  
(Seminar Hall No. 3), Mahatma Mandir, Gandhinagar, Gujarat

Under the umbrella of Atmanirbhar Bharat, the Government desires the nation to be on the manufacturing radar of every company in the aerospace manufacturing sector and move from generics to specifics. India is continuously growing in its power to indigenously design, develop and manufacture advanced cutting-edge technologies and systems in the Defence. Yet not much could be achieved towards manufacturing of an Indigenous Aero engines despite efforts in this direction.

However, recently, Defence Metallurgical Research Laboratory (DMRL) has established the near isothermal forging technology to produce all the five stages of high-pressure compressors (HPC) discs out of difficult-to-deform titanium alloy using its unique 2000 MT isothermal forge press. This is a crucial technology for establishing self-reliance in aeroengine technology. With this development, India has joined the league of limited global engine developers to have the manufacturing capabilities of such critical aero engine components. New technologies on the horizon have the potential to decrease greenhouse gas emissions from aviation significantly, and solutions being implemented today promise further savings.

Indigenous design, development and manufacturing of aero engines require building of an able defence ecosystem with industry. In line with the aim of 'Atmanirbhar Bharat', it is appropriate that the industry is encouraged to drive the development of technologies and systems in the areas where it has capabilities. MSMEs enjoy inbuilt operational flexibility, low investments with sufficient capacity to develop and manage indigenous technology. Further enhancing capabilities of indigenous companies including MSMEs in innovative niche technologies towards development of an indigenous aero engines would be a step forward towards Atmanirbhar Bharat that the country is striving for.

## Futuristic Technology for Defence Production

20<sup>th</sup> October, 2022, 10:00 am - 12:45 pm  
(Seminar Hall No. 1), Mahatma Mandir, Gandhinagar, Gujarat

The World over, the global military equipment is witnessing significant transformations and is leveraging technologies trends to strengthen capabilities besides giving an advantageous position of lead start in that field. Today, conventional warfare is increasingly being replaced by hybrid approaches that also combine cyber warfare and other frontiers. To optimize defence operations and augment military efficiency, major trends include artificial intelligence (AI), robotics, and the internet of things (IoT).

New and emerging technologies are changing the battlefield in four aspects-connectivity, lethality, autonomy, and sustainability. Connectivity solutions address concerns about how combatants detect and locate their adversaries, communicate with each other, and direct operations. Advances in missile and weapons technologies increase lethality, making battlefield operations more effective. Defence companies are utilizing robotics, AI to execute decisions with minimum human interference and are improving sustainability with technologies like 3D printing for production of components. The growing experimentation with nanotechnology for various military application is also gaining momentum.

India is taking rapid strides to establish its presence as a formidable force among the most powerful nations in the world. Fortifying its defence, therefore, becomes an ardent requirement - necessary to satisfy many of its growth ambitions. As is well known that due to the importance of global security concerns, border disputes and maritime affairs, countries around the world are today focusing on their military modernisation and the demand for military equipment is increasing rapidly.

Apart from DRDO, Indian private industries including MSMEs, and start-ups with indigenous innovative solutions have shown very encouraging sign in evolving futuristic technologies for Defence production within the country.

# Sponsorship Opportunities

## Platinum Partner: Rs. 8,00,000

- ⊙ Prominent Display of Company Logo as 'Platinum Partner' at the main backdrop
- ⊙ Speaking Slot in Conference on 18th October
- ⊙ Speaking Slot in Conference on 20th October
- ⊙ Advertisement in Newspaper
- ⊙ Four Standees at Venue
- ⊙ Placement of company logo on marketing flyers as well as social media.
- ⊙ Logo on the Backdrop
- ⊙ Branding in both the Conferences
- ⊙ Six Delegate Passes

## Gold Partner: Rs. 5,00,000

- ⊙ Prominent Display of Company Logo as 'Gold Partner' at the main backdrop
- ⊙ Speaking Slot in Conference on 20th Conference
- ⊙ Advertisement in Newspaper
- ⊙ Three Standees at Venue
- ⊙ Placement of company logo on marketing flyers as well as social media.
- ⊙ Logo on the Backdrop
- ⊙ Branding in both the Conferences
- ⊙ Five Delegate Passes

## Silver Partner: Rs. 3,00,000

- ⊙ Prominent Display of Company Logo as 'Silver Partner' at the main backdrop
- ⊙ Speaking Slot in Conference on 18th October
- ⊙ Advertisement in Newspaper
- ⊙ Two Standees at Venue
- ⊙ Placement of company logo on marketing flyers as well as social media.
- ⊙ Logo on the Backdrop
- ⊙ Branding in both the Conferences
- ⊙ Four Delegate Passes

## Corporate Partner: Rs. 1,00,000

- ⊙ Prominent Display of Company Logo as 'Corporate Partner' at the main backdrop
- ⊙ Advertisement in Newspaper
- ⊙ Logo on the Backdrop
- ⊙ Branding in both the Conferences
- ⊙ Placement of company logo on marketing flyers as well as social media.
- ⊙ Two Delegate Passes

# Glimpses of Conferences Organized by ASSOCHAM National Council of Aerospace & Defence



*Shri Ajay Bhatt, Hon'ble Raksha Rajya Mantri, Ministry of Defence, GOI at the inauguration of the India Defence & Security Expo organised by ASSOCHAM at IIT, Delhi*



*Smt. Nirmla Sitharaman, Hon'ble Union Minister for Finance, Ministry of Finance, GOI addressing the ASSOCHAM Conference during the AERO INDIA 2019 at Bengaluru*

*Dr. Ajay Kumar, Defence Secretary, Ministry of Defence, GOI and Shri Jayesh Ranjan, IAS, Principal Secretary, State Government of Telangana at the Inaugural Session of ASSOCHAM International Conference during the AERO INDIA 2021*



*Shri Shripad Yesso Naik, Hon'ble Minister of State for Tourism, Ministry of Tourism, GOI addressing the participants at the India Defence & Security Expo organised by ASSOCHAM at IIT, Delhi*



*Dr. Ajay Kumar, Defence Secretary, Ministry of Defence, GOI at the Inaugural Session of 11th DEFEXPO ASSOCHAM International Conference during the DEFEXPO 2020, Lucknow with other Industry Leaders*

## Target Audience

- ⦿ Ministries & Departments of Defence
- ⦿ Defence Research and Development Organization (DRDO)
- ⦿ Defence Public Sector Undertakings (DPSUs)
- ⦿ Ordnance Factories
- ⦿ Original Equipment Manufacturers (OEMs)
- ⦿ Air Force, Army, Navy, Coast Guards Officers
- ⦿ Indian Defence & Homeland Security Companies
- ⦿ Operational Commanders
- ⦿ Procurement Officers
- ⦿ Border Patrol, Immigration and Customs Deptt.
- ⦿ Law Enforcement, Security and Police Agencies
- ⦿ Training and Simulation Providers
- ⦿ Service Senior Officers
- ⦿ Diplomats & Defence Attaches
- ⦿ Component and Accessories Suppliers
- ⦿ Weapons Systems Providers
- ⦿ Electronic Warfare Systems Suppliers
- ⦿ Defence/ CERTs/ Analysts
- ⦿ Ground Support Equipment Manufacturers
- ⦿ Investment Bankers/ Financial Institutions
- ⦿ Defence Institutes
- ⦿ Strategic Analysts
- ⦿ Consultants & Advisors
- ⦿ Global OEM's
- ⦿ Leading Defence Manufacturers

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## About ASSOCHAM

ASSOCHAM initiated its endeavour of value creation for Indian industry in 1920. Having in its fold more than 400 Chambers and Trade Associations, and serving more than 4,50,000 members from all over India. It has witnessed upswings as well as upheavals of Indian Economy, and contributed significantly by playing a catalytic role in shaping up the Trade, Commerce and Industrial environment of the country.

ASSOCHAM India's Apex Chamber for Commerce and Industry has been working closely with several Ministries particularly with the Ministry of Defence and the State Governments in promoting the policies for the growth of our Nation. ASSOCHAM has a vibrant National Council on Aerospace & Defence comprising of leading Global OEMs and leading Indian Defence Companies and niche MSME's as its esteemed Members.



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