

Organised by



## INVITATION TO VISIT

Supported by the 'Make in India' initiative the Government is focusing its efforts on increasing indigenous defence manufacturing and becoming self-reliant. This is opening up big opportunities for foreign, domestic private and DPSU's. Contractual offset obligations over the next 5 years are expected to be in the range of USD 4.53 billion.

### WHAT'S INSIDE

- A & D Industry - An Overview
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### Dear Industry Colleagues,

Whilst the strategic partnerships, product selections and demand planning is happening for these projects a key challenge that remains is to source right quality of input and raw materials, components, assemblies and sub-assemblies for these projects. On one hand the OEM's constantly look for new suppliers who can help them improve the quality of their products and reduce the costs and on the other hand the suppliers look for ways to transact business with defence equipment manufacturers.

It is with this backdrop that Infinity Expo is organising 2nd AeroDef India, an exclusive platform for Indian and International aerospace and defence equipment manufacturers to source raw materials, components, sub- assemblies and finished products and sub contract essential manufacturing processes like forging, machining, moulding, finishing, material development etc to Indian MSME's.

The event will serve as an opportunity for the MSME's to showcase their capabilities, abilities, and manufacturing prowess to OEM's, Strategic Partners, DPSU's. The last edition had 100+ exhibitors and was visited by 2500+ professionals from organisations like HAL, ISRO, DRDO, BEL, OFB's, MILIT, CME, Boeing, Airbus, IAI, ADA etc.

Exhibitor profile includes suppliers of Advances in Surface Finishing Process for Aerospace Applications, Subcontracted Product Development for DPSUs, Welding Technology for Aerospace and Defence Manufacturing, Advanced Precision Forging, Quality Assurance, Casting & Powder Metallurgy Process & Heat Treatment, Developing and Manufacturing of Special Metals for Aerospace Industry, Software application in Aero Space Manufacturing.

The visitors to the event will comprise Procurement, Supply Chain, Materials, Production and Subcontracting heads from DPSU's like HAL, BEML, DRDO etc, Indian Private players like Tata Advanced, Godrej, L&T, Reliance etc and International majors like Lockheed Martin, Raytheon etc. Co-located seminars and conferences will discuss and debate on how MSME's can benefit from this opportunity and what are the essentials to become a defence supplier.

**As a senior leader from the sector I write to invite you** to attend the event as a special guest. We will be happy to align meetings at the event to help you align your sourcing objectives. Feel free to ask us for any clarifications that you may need.

I look forward to the pleasure of receiving you at the Event.



Best Regards,  
Sukhjinder Singh, CEO

# AEROSPACE & DEFENCE INDUSTRY: AN OVERVIEW

India is the third largest spender on defense in the world, after U.S and China. The capital expenditure by the Ministry of Defense increased approximately by 15-20% in the last five years and is projected to grow at an accelerated pace in the India aerospace & defense market propelling it to an estimated size of USD 23billion by 2024. Growing focus on indigenous manufacturing and easing of FDI norms are likely to be the key driving factors.

Targeted spends of USD 130 Bn on military modernization in the next 5 years, are opening up interesting long term opportunities for private sector manufacturers and the value chain is likely to benefit the MSME's engaged in supplies of raw materials, components, assemblies and sub-assemblies significantly as India realizes its objective of self-reliance.

## WHY AERODEF INDIA?

Considering the whole ecosystem of defence manufacturing being dynamic and ever evolving, the exhibition understands the need to address the opportunities and challenges thrown by the segment and looks forward to bring together the defence manufacturing community on a single platform to share their ideas and suggestions. The expo provides a rare opportunity to capture the essence of this dynamic segment.

- Get a detailed picture of the entire process chain in the defence manufacturing sector
- Golden opportunity to initiate a permanent tie-up with industry experts
- Facilitates an easy access to the ever growing Indian market
- Discover ways to increase efficiency and boost profits
- Be a part of the Defence Manufacturing & Supply Chain Summit



## INDUSTRY GROWTH DRIVERS

2019

**Modernization of Armed Forces**  
\$130 bn opportunity in coming 7-8 years

**Infrastructure Development**  
Manufacturing cluster & park planned in Pune & Dholera

**R&D**  
\$ 15.4 mn allocated to set up "Technology Development Fund"

**Indigenously Designed, Developed & Manufactured (IDDM)**  
New category of capital procurement



## CASTING

With manufacturing gradually picking up and several emerging sectors opening up new opportunities, the more than \$18 billion Indian foundry or casting industry is looking to double growth rates. India is the world's third-largest casting producer after China and the U.S. While China accounts for 40% of the world's 105 million tonnes casting production, the U.S. and India each do between 11 and 12 million tonnes per year. The emerging demand from A&D casting will open up new opportunities for casting industry which will be very specialised but will be likely to be high value.

### RATNADEEP CASTINGS

Ratnadeep Castings deals in all kind of non-ferrous Bushes & Liners, Sleeves, Submersible Bushes, Industrial Bronze Parts, Propellers, Worm wheel, Worm blank, Ring Castings, Oilless Bushes through Centrifugal Casting. With a strong focus on R&D their development of components is designed to cater to the most complex products that customers might need.



### SOLSONS EXIM

Solsons has also its own Investment Casting Foundry (lost wax process) for casting any kind of Alloy or Super Alloys. Solsons is the inventor & manufacturer of international awards winner Innovative hand tools introduced for the First Time in The World for operating various nuts / bolts, pipes & studs. 100% tools are manufactured in-house including the raw material alloy steel to maintain the quality standards of "Life time warranty".

### SPIN N CAST

The enterprise, founded in 1988, now flaunts a state-of-the-art production facility that has a total built-up area of 16,000 sq. ft. when it comes to manufacturing brasses and bronzes of all kinds. Adroit at using the centrifugal casting (rotocasting) method, They have been delivering topnotch axi-symmetrical castings to over 200 reputed companies for more than 27 years.



## AUTOMATION

Robots occupying forward areas with weapons may still be a far-fetched thought, but India doesn't want to be lagging behind in providing its armed forces up-to-date artificial intelligence (AI) and robots. Having already made a host of robots with varying uses, the Centre for Artificial Intelligence (CAIR) is now in the process of developing Multi Agent Robotics Framework (MARF). CAIR, a DRDO lab leading India's research in artificial intelligence, has been working on this project for more than eight months now and when completed, it will equip India's armed forces with a host of robots that can work as a team in collaboration, much like our soldiers do.

### JENDAMARK TECHCELLENCY

Jendemark Techcellency is engaged in offering an excellent range of Automation Systems, Aerospace Tooling, Pallets for Engine Assembly and Sub Assembly Fixtures & Tables.



### FORM ATE

FORM Co. Specialises in the design and manufacturing of Automatic Test Equipment (ATE) for IC, semiconductor, relay and circuit board testing. Since its founding, FORM has steadily progressed in ATE and measurement technologies and has become the major test systems and services supplier in the domestic Russian market. 98 companies in Russia use our equipment and test solutions in product and qualification testing, R&D, quality process analysis and incoming inspection.



Our customers are defence labs, R&D centres and product certification laboratories. Our customers can have full confidence in their components after they have been checked by Formula. Our mission is to help our customers refine the quality of their products.





## WELDING

According to recent studies, by 2023 the global market of 3D printers and services is estimated to be valued at \$32.78, at a Compound Annual Growth Rate (CAGR) of 25.76% between 2017 and 2023. Based on the product type welding and cutting equipment market is divided into five categories: arc welding equipment, gas welding equipment, MIG welders, plasma cutting equipment and others.



### FRONIUS

As the technology leader, they find, develop and implement innovative methods to monitor and control energy for welding technology, photovoltaics and battery charging. We forge new paths, try something difficult and succeed where others have failed in achieving what seems to be impossible.

### ARTECH WELDERS

Established in the year 1994, They are engaged in manufacturing and supplying of industrial welding machines. They offer a range of capacitor discharge projection welding machines, medium frequency (MFDC) spot & projection welding machines, stud welding machines & shear connectors.



## 3D TECHNOLOGY

3D printing technology can prove a major boon in field, where a small part going dysfunctional can render a weapon or weapon system useless. Modern militaries are addressing this problem through fabrication laboratories (fablabs) in the field, equipped with 3D printers, industrial machines and tools like laser cutters, lathes, casting equipment etc

### DIVIDE BY ZERO TECHNOLOGIES

Divide By Zero Technologies is one of the pioneer companies to take 3D printing technology to SME sector in India purely because the machines are professional, affordable and adhere to international quality standards. They have launched a range of high quality, Industrial 3D printers which already cater to various business.

### FARO

FARO® is the world's most trusted source for 3D measurement, imaging & realization technology. The company develops and manufactures leading edge solutions that enable high-precision 3D capture, measurement and analysis across a variety of industries including manufacturing, & construction, engineering and public safety.



### APOLLO MICRO SYSTEMS

Apollo Micro Systems Ltd is a Defense Sub systems, systems organization with over three decades of proven track record with highest customer satisfaction. They are pioneers in Design, Development and Productization of Ruggedized Custom Built Hardware + Software Solutions for various Mission Critical and Safety Critical systems required in Army, Navy & Airforce besides Space. Over 3 decades they have successfully executed projects like On-Board Computers, Instrumentation Electronics, Sensor Packages, Control Electronics, Signal Processing Systems, Stabilization Systems, PCM Encoders, Radio Proximity Fuze electronics, Missile Launcher Command Systems, Ground Check out Systems, etc.



### CARMAC TECHNOLOGIES

Leading Manufacturer of Conventional Welding Rotator, Self Aligning Welding Rotator, Self Centering Welding Rotator, Anti Drift Welding Rotator and Pipe Welding Rotator - Scissor Type from Pimpri Chinchwad.







CAD/CAM solutions are finding increasing applications in manufacturing organizations that are contracted to CNC machine parts for Aerospace & Defence. Along with automation and manufacturing intelligence solutions in CAD/CAM technology benefits include machine cycle time reduction, improvements in programming workflow efficiency and much more. From military CNC machine production manufacturing to after-market products, CAD-CAM software can be found to increase production, reduce waste and play a important role in your manufacturing success.

#### ADVANCE CAD TECHNOLOGIES

Advanced CAD Technologies specialises in 3D inspection and measurement, scanning, reverse engineering. Our designing team is highly qualified with expertise in Class A and B surfacing, 3D CAD model generation by software like imageware, Ideas, UG, ProE, Catia, Think3 and Geomagic.



#### OPEN MIND TECHNOLOGIES

Openmind Technologies is a premier and onsite/offshore Software Solutions and Services Company, headquartered in the Silicon Valley, offers a world-class combination of people, coverage, process, and technology.



#### SARTO ELECTRO EQUIPMENTS

Offer an economic total solution to Their customers model production requirements as a single package. Low operating, maintenance and consumable costs and regional support from our professionals with many years' experience in applications and service in the RP/AM Industry.



## FASTENERS

The aerospace fasteners market is segmented into rivets, screws, nuts & bolts, and others (hi locks, collar, and so on). Rivets segment is estimated to account for the largest market share during the forecast period. They are used extensively during manufacturing and maintenance process as they have high tensile strength and ability to affix critical structural components. The aerospace fasteners market has been segmented and analyzed on the basis of aircraft type into narrow body aircraft, wide body aircraft, very large aircraft, regional jets, and business jets



#### ELLAR METALS

Ellar Metal Parts is the known name in the metal part making industry. Ellar Metal Parts is the sole and proprietorship-based company, which is involved in the and manufacturing and supplying of Forging Spare Part, Stainless Steel Fastener, Stainless Steel Component and many more.



#### RASS SALES SYSTEMS INDIA

Rass Sales Systems India Private Limited is involved in the area of manufacturing, wholesaling and retailing a broad plethora of Door Aldrop, Door Tower Bolt, Metal Screw, etc.







### LEE HYDRAULICS & FASTENERS

Lee Hydraulics & Fasteners is engaged as the manufacturer, wholesaler, re-tailer and trader of Metal Nut, Metal Screw, Metal Bolt, Metal Washer and many more. Our optimum products are provided with complete quality assurance.

### ABHI METALS

Leading Manufacturer & Exporter of fasteners & components Product Range: Dia, M2 to M16, Length: 3mm to 150 mm Material, Steels, Stainless Steel, Brass, Copper, Phosphorous Bronze, Silicon Bronze etc.



## PRECISION COMPONENTS

A high precision machining facility comprised of Computer Numeric Control (CNC) milling, lathe, Electrical Discharge Machining (EDM) and grinding machines provides shape to the part. The OEMs as well as the aftermarket segments related to each of the potential end use markets will boost the precision components and tooling systems market. The precision components and tooling systems market consists of large to small scale manufacturers based on manufacturing and supply of unit components as well as integrated tooling systems.



### MICRON ENGINEERING

The company has a strong manufacturing setup and has continued its trading network to ensure its clients one stop shop for their requirements. Micron has well organized staff & strong network of suppliers/partners, has strengthened its design, manufacture and export specialization in production of different industry applications in many parts of the globe.

### GATRAD AVIATION

Over the collective 30 years of experience in the field of Metrology and establishing various Management Systems, GATRAD group has setup the most advanced and State-of-art, Precision detailed and machining manufacturing facilities for AEROSPACE and other Industries.



### DEEPAK FASTENERS

The Largest Industrial Fasteners Manufacturer in India and the proud worldwide owner of the brand Unbrako, Deepak Fasteners excels in a variety of coatings done in-house, designed to provide required protection in different environments, e.g. Hot Dip Galvanizing, Mechanical Galvanizing, Electroplating (Zinc & Copper Cadmium), PTFE Coating, Zinc-Al Flake Coating (Geomet, Delta Protect) and Unbrakowiscoat coating.



### UNIMECH AEROSPACE

Unimech Aerospace is a team of technicians, designers, engineers, dreamers, thinkers, strategists and doers, who have come together to create & design Aerospace tools and technologies that matter above everything else. We work on solutions for problems of the future, apply new technological tools and continuous learning to everyday processes, design and create, and don't settle for anything less.

### A P LMEC SYSTEMS

'A P LMEC SYSTEMS' was established in the year 2007 as a Partnership Firm to manufacture & assemble precision engineering components & assemblies. The company is equipped with precision machining facilities like CNC Machining Centers, Turning Centers, Precision Lathes & Milling machines, EDM, Grinding, Press working, TIG Welding, Pressure Testing, Furnace etc.,



### RIPPLE TECHNOLOGIES

Aircraft industry being our domain, having decade+ years of experience & expertise, Working with many demanding, high-profile clients across aerospace, defense, They've quickly developed a strong reputation in the market to ensure predictable, on-time and quality manufacturing. Owing to the specific volume of aerospace activities we undertake, we are also AS9100 Rev.



## CNC TECHNICS

CNC TECHNICS has been involved in the design, manufacturing and applications of multi axes CNC filament winding machines & accessories for the past 2 decade. Headed by a first generation technocrat from one of the premier engineering institutions in the world and ably supported by an excellent team of over 50 engineers & technicians, CNC Technics strives to design & manufacture filament winding machines at very affordable costs.



## HIGHTEMP FURNACES

HIGHTEMP India, is now a subsidiary of Dowa Thermotech Company, Japan and has witnessed a steady growth over the years - from being a builder of small ovens and laboratory furnaces to become one of India's best known manufacturers of Heat Treat Furnaces. What sets them apart is the fact that HIGHTEMP offers both Atmospheric Heat Treatment Furnace Systems and Commercial Heat Treatment



## VALETH HIGHTECH COMPOSITES

Valeth Hightech Composites an ISO 9001:2008 company situated in Chennai (India) has established itself as a leading manufacturer of advanced composite materials and products for Space, Aerospace, Defence, Marine, Petro Chemicals, Effluent treatment, and various other fields. In the present scenario involving rapid changes in material technology, Valeth persists to be an innovative company capable of producing raw materials to products all under one roof.



## SARU COPPER ALLOYS

Saru Copper is an India-based leading manufacturer and exporter of copper rods, continuous cast and cold drawn copper alloy rods and copper alloy bars. We take pride that our products are being globally accepted since last several years for their quality and competitive pricing. Presently the company is exporting copper alloy rods and copper alloy bars to countries such as US, UK, Germany and Latin America, Tanzania, Middle East, Malaysia, Vietnam and New Zealand.

## RESONOUS TECHNOLOGIES

Resonous Technologies provide Wireless LTE Broadband equipment and network solutions. With operations in India, USA and Africa, delivering superior products, network solutions and public safety solutions to Asian and African countries. Apart from the classical LTE Network products, Resonous also provide RRH, Micro Base station (MBS), Core network In a Box (CNIB), Network in a Box (NIB)



## STOROPACK INDIA

Storopack is a trusted name when it comes to in-the-box packaging for protecting your products. Storopack India, is the Indian arm of STOROPack Hans Reichenecker GmbH. Protective Packaging from Storopack helps protect your products from logistics related problems of brittleness, fragility, surface protection and friction. Protection can be given to products by one or a combination of Void fills, Block and brace, Cushioning and Surface protection.

## ASIAN MACHINE TOOLS

Asian Machine Tool Corporation is engaged in offering a wide collection of Marking Machines to our customers. They have been able to carve for themselves an image of a widely recommended and cherished supplier of rugged, high strength, and fine finish products that are made from top notch quality materials and are examined & tested properly to achieve highest customer satisfaction.

## TEK PRESSWORKS

Renowned for manufacturing sheet metal deep drawn, stamped parts, TEK Pressworks Pvt. Ltd. possesses a reputation of being a leader in the industry. Established in 1964 (as TEK Industries), the client list of TEK Pressworks, includes globally reputed organizations such as M/s. Mahindra & Mahindra a Major Automobile Manufacturer in India, suppliers to Indian Railways, and Marine Equipment, powered by a proficient work force committed to rigorous quality standards



## FEDERATION OF INDIAN EXPORT ORGANISATION

The Federation of Indian Export Organisations represents the Indian entrepreneurs spirit of enterprise in the global market. Known popularly as "FIEO", this apex body of Indian export promotion organizations was set up jointly by the Ministry of Commerce, Government of India and private trade and industry in the year 1965. FIEO is thus a partner of the Government of India in promoting India's exports....



## APOLLO MICRO SYSTEMS

Apollo Micro Systems (CEMILAC Certified) is a Defence systems organization with over three decades of proven track record with highest customer satisfaction. We are pioneers in Design, Development and Production of Ruggedized Custom Designed Electronic, Embedded Hardware + Software Solutions for various Mission Critical and Safety Critical systems required in Defence, Avionics & Space. Our expertise lies in Analog and Digital Electronics, Signal Processing, Power Electronics, Control Electronics, Mechatronics and related technologies. We have executed many onboard electronic systems for Missiles, Torpedos, Avionics applications. We have established stringent quality process and In-House Eco-System to provide END-TO-END Solution right from design to manufacturing & qualifying the same.



## SAI SURFACE COATING

Sai Surface Coating Technologies (SSCT) specializes in surface modification techniques and precision machining technologies. Based at Hyderabad (INDIA), we have diverse surface modification technologies spanning Detonation spray process, High velocity oxy-fuel (HVOF) process, Plasma spray, Flamespray, Wire arc, Spray and Fuse processes, Gas Nitriding, Laser Cladding and Hard facings etc, in addition to wide-spread utility precision machining and grinding facilities at our specially equipped site enabling us to offer their customers a one-stop shop service for every engineering requirement.



## FRONIUS INDIA

Fronius International is recognized as a leader in welding technology with a strong hold in R&D and focus on innovation. With a focus on mitigating the challenges faced by the welding sector Fronius has constantly innovated 1241 patents to its name. Fronius is the world market leader for robotic welding power sources with a mastery on entire spectrum: SMAW, TIG, MIG/MAG, Plasma and Laser Hybrid. Fronius has also introduced many innovative processes, solutions for various industry applications like CMT (Cold Metal Transfer), ArcTig, Delta Spot etc. to overcome certain welding challenges and provide a comprehensive solutions. Fronius currently has 28 subsidiaries including India and deals in 60 other countries through its distribution network. Fronius welding power sources are intelligent, Industry 4.0 ready, futuristic, robust and reliable.



We have successfully executed projects like On-Board Computers, Instrumentation Electronics, Sensor Packages, Control Electronics, Electromechanical actuation systems, Signal Processing Systems, Stabilization Systems, PCM Encoders, Relay units, Radio Proximity Fuze electronics, Missile Launcher Command Systems, Homing systems, Decoy systems, various Weapon electronic systems, Ground Check out Systems, Simulators, Test systems, etc.





## ESI GROUP

ESI Group is a leading innovator in Virtual Prototyping software and services. Specialist in material physics, ESI has developed a unique proficiency in helping industrial manufacturers replace physical prototypes by virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products. Coupled with the latest technologies, Virtual Prototyping is now anchored in the wider concept of the Product Performance Lifecycle™, which addresses the operational performance of a product during its entire lifecycle, from launch to disposal. The creation of a Hybrid Twin™, leveraging simulation, physics and data analytics, enables manufacturers to deliver smarter and connected products, to predict product performance and to anticipate maintenance needs.



## STOROPACK

As the claim suggests, Storopack is a trusted name when it comes to in-the-box packaging for protecting your products. Storopack India Pvt Ltd, is the Indian arm of STOROpack Hans Reicheneker GmbH, Germany. Protective Packaging from Storopack helps protect your products from logistics related problems of brittleness, fragility, surface protection and friction. Protection can be given to products by one or a combination of Void fills, Block and brace, Cushioning and Surface protection.



## CADMARC SOFTWARE

CADmarC is a specialist engineering company engaged in sales and support for Engineering Software.

With over 19 years of strong engineering experience, expertise & understanding of the engineering project lifecycle management, CADmarC has emerged as one of the most sought after solution provider from this domain. Their core business areas include: CAD/CAM/CAE& PLM Services, Corporate Training, Engineering Outsourcing and CAD Customisation. CADmarC partnered with Dassault Systemes to democratise the world class solutions of Dassault Systemes CATIA – SIMULIA - DELMIA - ENOVIA to the niche Engineering/ Manufacturing community in the country and currently serve major customers like ISRO, CVRDE, NPOL, Cochin Shipyard, BEL, Hyundai Mobis, Toyota Boshoku, India Kawasaki Motors, IIT Hyderabad, IIT Indore, IIT Palakkad, NIMHANS, Indian Naval Academy etc.



## WIPRO 3D

Wipro 3D has reimaged and delivered components for a leading Aerospace OEM that have reduced the customer's "design to realize" lifecycles by as much as half or more. While the AM industry continues to work towards 'mainstreaming' the technology, Wipro 3D has developed the capability to understand target, prove out requirements and deliver solutions to our clients using our own practices in Additive Engineering, metallurgical handling of builds, coordinated post processing, and a prove-out ecosystem that leverages in-house and partner facilities. Apart from Ti6Al4V, Inconel 625 and 718, Wipro 3D offers the ability to adapt new alloys, based on customer applications and business case.

Wipro is deeply engaged in the aerospace sector and in addition to our AM business, we operate state-of-the-art facilities certified by global players such as Messier Bugatti Dowty, UTAS, and Liebherr for manufacturing, assembling, and testing of aerospace actuators and precision machined components, based on a technology transfer agreement with CESA, Spain.

# DEFENCE MANUFACTURING & SUPPLY CHAIN SUMMIT

17-19 JANUARY, 2019

HITEX EXHIBITION CENTRE, HYDERABAD



**Dr. P K C Bose**

Vice Chairman & Managing Director,  
**Saertex India Private Limited**



**Dr. David Pritchard**

Associate Professor /Aviation Researcher  
**State University of New York - Empire State College**



**Ekaterina Bocharova**

Head of Sales Department  
**FORM ATE**



**Amit Pathak**

General Manager  
**Pratt & Whitney Customer Training**



**Sashi Sairaman**

Director  
**MTAB Technology Center Pvt Ltd**



**Anshul Gupta**

Director  
**ESI India**

## Key Topics Covered

## Defence Manufacturing & Supply Chain Summit

- Simulation, Prototyping, Testing in A&D Sector – The latest developments
- Simplicity And Agility Through Digital Engineering For Manufacturing Value Chain
- Can 3D Printed Electronics Be Used as a New Dimension In Prototyping & Manufacturing
- Current and Future Applicability for Graphene and Graphene Composites in A&D Manufacturing
- Developing Deep Electronics Competencies – an essential for taking A&D Manufacturing to next

**Delegate Fees: 10000/** (Plus GST)

**For More Details, Contact:**

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# Defence Manufacturing & Supply Chain Summit

Industry 4.0 Strategies for Competitiveness of Indian Defence



18 January, 2019 CONFERENCE DAY#1

19 January, 2019 CONFERENCE DAY#2

**0900 Registration & Coffee**

**0925 Welcome Remarks by Conference Chair:**

## **AEROSPACE & DEFENCE MANUFACTURING IN INDIA: THE JOURNEY AHEAD**

- 0930 – 1000 Moving from Cost arbitrage to making Indian manufacturing globally competitive
- 1000 – 1030 Engaging the Armed Forces in Collaborative Manufacturing Models
- 1030 – 1100 Telangana: The Emerging Hub of Aerospace & Defence Manufacturing
- 1100 – 1130 Aerospace Parks, SEZ's, Supply Chain Networks : the Infrastructure essentials for taking AeroDef Manufacturing to the next Level

**1130 – 1145 Refreshment Break**

## **NEW TECHNOLOGIES CHANGING THE FACE OF DEFENCE MANUFACTURING**

- 1145 – 1215 Artificial Intelligence, Blockchain, IoT in Defence Manufacturing – The untapped potential
- 1215 -1245 Simulation, Prototyping, Testing in A&D Sector – The latest developments
- 1245 -1315 Simplicity And Agility Through Digital Engineering For Manufacturing Value Chain

**1315 -1400 Networking & Lunch Break**

- 1400 – 1430 Can Additive Manufacturing Be a Future Technology With Real Economic Returns in Aerospace & Defence Manufacturing
- 1430 – 1500 Simulation-Based Methods For Pre Processing Of Additive Manufacturing Of Parts
- 1500 – 1530 Additive Manufacturing And Prototyping In Maintenance, Repair And Overhaul (MRO)
- 1530 – 1600 Optimizing Manufacturing Operations With The Power of 3D Printing For Tooling

**1530 – 1545 Refreshment Break**

- 1545 – 1630 Can 3D Printed Electronics Be Used as a New Dimension In Prototyping & Manufacturing
- 1630 – 1700 Leveraging The Full Potential Of The Aerospace Supply Chain With Additive Manufacturing

**1700 Closing remarks and end of day 1**

**0900 Registration & Coffee**

**0925 Welcome Remarks by Conference Chair:**

## **ADVANCED MATERIALS TO POWER NEW GEN MANUFACTURING**

- 0930 – 1000 Leveraging Advanced Composite Materials to Meet the Size, Weight, & Power Needed Without Sacrificing Performance
- 1000 – 1030 Current & Future Applicability for Graphene & Graphene Composites in A&D Manufacturing
- 1030 – 1100 Utilizing Advanced Materials & Manufacturing Processes to Modernize and Sustain the Combat Systems
- 1100 – 1130 Cloud Manufacturing, big data, and IoT in Defence Manufacturing

**1130 – 1145 Refreshment Break**

- 1145 – 1215 Advanced Performance Structural Ceramics & Ceramic Composites for A&D Manufacturing
- 1215 -1245 Developing Deep Electronics Competencies – an essential for taking A&D Manufacturing to next level
- 1245 -1315 New Developments in Sensor Technologies for A&D Manufacturing

**1315 -1400 Networking & Lunch Break**

- 1400 – 1430 Big Data, Descriptive, Predictive & Prescriptive Analytics for Enhanced Manufacturing Supply Chain Performance
- 1430 – 1500 Predictive Maintenance: How to Prevent Asset Failure, Detect Quality Issues And Improve Operational Processes
- 1500 – 1530 Zero Defects In Aerospace Manufacturing: Tying The Knot On The Digital Thread & Managing Quality Standards at SME Suppliers
- 1530 – 1600 E-Procurement Implementation strategy: Streamlining procurement processes and increasing efficiency and transparency

**1530 – 1545 Refreshment Break**

- 1545 – 1630 Preparing Procurement for Digital Disruption to the Supply Chain
- 1630 – 1715 Best Practice in Building Agility in Supplier Management

**1700 Closing remarks, end of Conference**

# SHOW INFORMATION



## For Registration Contact

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