6th Edition

# AeroDef INDIA MANUFACTURING

Exhibition & Conference

**08 | 09 | 10 April 2026**

Yashobhoomi, IICC, Dwarka
New Delhi, India

Supported by

Warship & Submarine Manufacturing Expo

DMME Defence Mobility Manufacturing Expo

SAME SmallArms Manufacturing Expo

2nd Edition DRONE MANUFACTURING EXPO

## India's Premier Aerospace & Defence Manufacturing Supply Chain & Sub-Contracting Expo..

**250+** Exhibitors

**100+** International Buyers

**95+** Product Categories

**10K+** Trade Visitors


— Organised by —

Infinity Expo

# **Indian Aerospace &** Defence Industry Overview

India's aerospace and defence sector is among the largest in the world, driven by modernization, strategic initiatives, and strong international collaborations. The industry spans aviation, space exploration, military equipment, & advanced technologies, with the "Make in India" and "Atmanirbhar Bharat" initiatives supporting local production, R&D, and export growth. The Indian aerospace and defence market is projected to reach approximately USD 70 billion by 2030, driven by increasing demand for advanced infrastructure and government support. Future growth in aerospace and defence manufacturing will be shaped by effective governance, advancing military equipment, spacecraft, and both commercial and private aircraft production.

## 5 Reasons to Exhibit

- An exclusive platform to meet greet & transact business with defence & aerospace manufacturers
- Identify demand trends in aerospace and defence for input material
- Understand the best way to transact business with aerospace & defence players
- Gain Access to Industry Leaders from aerospace & defence sector
- Induce trials of your products and attract long term business

## 5 Reasons to Visit

- Identify suppliers of raw material, components, assemblies
- Understand the inovations in supplier market upgrade your products
- Strengthen your supply chain & mitigate potential risks by expanding vendor base
- Reduce your sourcing cost whilst improving your product quality
- Benchmark your existing materials, supplierswith alternate sources

## Why Delhi..?

Delhi has for long firmly been entrenched as the headquarters of Indian defence forces and some critical decision making around manufacturing, acquisitions, upgradations in aerospace & defence sector happen in the capital city of the country. In addition to this many an SME enterprise and some very important defence manufacturing enterprise including but not limited to DPSU's, OFB's and private domestic and international manufacturers have a strong base in northern India. Delhi is also home to main offices of organizations like Defence Research And Development Organization (DRDO), Bharat Electronics Limited (BEL) & Hindustan Aeronautics Limited (HAL) and multiple R&D labs, Ministry of Defence, Ministry of MSME, Ministry of Heavy Industry etc which presents the ideal eco-system that an event like AeroDef Manufacturing would need.

## Exhibitor Profile

**Design Engineering & It Solutions**
- → Aircraft & Subsystem Design
- → Avionics
- → Critical Components Design
- → Product Development
- → Software & Stimulations
- → Measurement, Inspection & Analysis
- → IT Solutions
- → Design & Simulation
- → 3D Printing
- → Rapid Prototypes

**Electronics Components**
- → Connectors
- → Harnessing Accessories & Identi fication
- → High Performance Relays & Contractors
- → Rugged Fiber Optics & Cable Assemblies
- → Wire & Cables
- → Termination Devices, Splices & Crimp
- → Aircraft Wiring
- → Actuation
- → Power Distribution Assemblies
- → RF & Microwave Components

**Maintenance Repair & Overhaul (MRO)**
- → IT Solution Providers
- → Tools Manufacturer
- → Airport Equipment's & Services
- → Hardware
- → Lightning
- → Hydraulics & Pneumatics
- → Parts Distributors
- → Fuel & Lubricants
- → Cleaning

**Engineering & Process**
- → Metal Casting & Forging
- → Foundry & Forging
- → CNC Controls & Machineries
- → Laser Cutting
- → Finishing & Coating
- → Contract Manufacturing
- → Surface Treatment & Cleaning Equipment's
- → Aerospace & Defence Fasteners & Tools
- → Fasteners, Bearings & Standard Parts
- → Cutting & Welding

**Component Manufacturer & Suppliers**
- → Aero Structure Components
- → Airframe Manufacturer
- → Aircraft Engines
- → Avionics & Flight Systems Components
- → Wings & Landing Gear Assembly
- → Wheels, Brakes & Landing Gear
- → Hydraulic Systems
- → Missile Casing & Launchers
- → Pneumatics
- → Air Compressor

**Other Tools & Suppliers**
- → High Performance Fabrics | → Glass
- → Aviation Oils & Lubricants
- → After Market - Spare, Parts & Services
- → Safety Related Equipment's
- → Rubber Components
- → Protection & Armoring

**Raw Material**
- → Advanced Materials
- → Steel, Titanium & its Alloys
- → Sheet Metal Components
- → Additive Manufacturing | → Composites

# Key Visitors

- Aditya Birla Group
- Aeronautical Development Agency
- Airbus
- All Russia Public Organization
- Antrix Corp
- Balmer Lawrie & Co Ltd
- BDL
- Bharat Electronics Limited (BEL)
- Bharat Forge Limited
- Boeing
- Brahmos
- Defence & Research Development
- Organization (DRDO)
- Epsilon Engineering Pvt Ltd
- Goa Shipyard Limited
- Goderj Aerospace
- Hindustan Aeronautics Limited (HAL)
- IBM Technologies
- Indian Armed Force
- Indian Space Research Organization (ISRO)
- JSW Steel
- Kalyani Group
- L&T Heavy Engineering
- Mahindra & Mahindra Group
- Mazagon Dock Limited
- Midhani
- Nuclear Fuel Complex
- Ordnance Factory Board
- PPG Aerospace
- Reliance Aerospace
- Reliance Defence
- Tata Advance
- TCS
- Tech Mahindra
- Toshiba
- Wipro

## Visitor Companies

- Private Sector Defence
- Manufacturers
- Public Sector Defence Units
- International OEM's
- Ordnance Factories
- Naval Dockyards
- Research Labs
- Aerospace Research Centres



# Conference Agenda Day-1

| Session | Session Focus |
|---|---|
| **0800** | **Registration & Coffee** |
| **0855** | **Welcome Remarks by Conference Chair:** |
| **0900 – 0930** | **Opening Session** |
| **0930 – 1000** | **Emerging Opportunities for Defence Manufacturing in India: 2026-2030** |

India's defence manufacturing sector presents a wide array of opportunities, driven by increasing domestic demand, modernization efforts, and the government's push for self-reliance through initiatives like "Atmanirbhar Bharat" (Self-Reliant India). The sector is growing rapidly, fueled by advancements in technology, foreign partnerships, and rising investments in indigenous defense capabilities.

**1000 – 1030** **Ceramic Matrix Composites (CMCs) and Ballistic Composites in Defense Manufacturing**

Ceramic Matrix Composites (CMCs) and ballistic composites mark a significant advancement in materials engineering, providing exceptional strength, thermal resistance, and lightweight properties that are essential for contemporary defense applications. These innovative materials are revolutionizing the creation of military equipment, ranging from armor systems to high-performance aerospace components.

**1030 – 1100** **Nanocomposites in Defence Manufacturing: Transforming the Battlefield**

Nanocomposites represent a revolutionary class of materials in defense manufacturing, combining nanoscale reinforcements with traditional matrices to deliver exceptional mechanical, thermal, electrical, and barrier properties. By leveraging the unique attributes of nanoparticles, nanocomposites are driving innovations in lightweight armors, advanced weaponry, and durable aerospace components.

**1100 – 1115** **Refreshment Break**

**1115 – 1145** **Emerging Role of Smart Composites in Defence & Aerospace Manufacturing**

Smart composites are materials that combine traditional composite structures (e.g., polymer, ceramic, or metal matrices reinforced with fibers) with embedded smart technologies, such as piezoelectric sensors, shape memory alloys, or nanomaterials. These features enable the material to sense, act, and adapt to environmental changes or external stimuli.

**1145 – 1215** **Advanced Materials for Defence Power Electronics: Enabling Superior Performance**

Advanced materials are vital for the next generation of defense power electronics, enabling superior performance, efficiency, and reliability. By integrating wide bandgap semiconductors, thermally conductive materials, and innovative composites, the defense sector can meet its growing demands for high-performance systems in increasingly challenging environments. As research and development continue, these materials will play an essential role in shaping the future of defense technology.

**1215 – 1245** **Quantum Computing and Cryptography in Defense Manufacturing: Transforming Security & Efficiency**

Quantum computing and quantum cryptography are rapidly becoming integral to defense manufacturing, offering revolutionary capabilities in secure communication, materials development, and operational optimization. By harnessing the principles of quantum mechanics, these technologies promise unparalleled computational power and cryptographic security, essential for addressing modern defense challenges.

**1245 – 1315** **Quantum Computing for Material Simulation**

Quantum computing is revolutionizing the way we simulate atomic-level material properties. As this technology progresses, it will significantly enhance our ability to discover innovative materials with outstanding characteristics, particularly for defense applications. Embracing these advancements will pave the way for breakthroughs that can strengthen our defense capabilities.

# Conference Agenda Day-1

**1315 – 1400** **Networking & Lunch**

**1400 – 1430** **Quantum-Enhanced Simulations in Defence Manufacturing: Redefining Innovation and Efficiency**

Quantum computing is emerging as a transformative force in defence manufacturing, enabling simulations of unprecedented scale and complexity. By leveraging quantum-enhanced simulations, defense manufacturers can achieve breakthroughs in materials design, optimization of manufacturing processes, and operational efficiency, ultimately strengthening national security capabilities.

**1430 – 1500** **AI-Driven Material Development for Defence Applications**

Artificial Intelligence (AI) is playing a transformative role in the development of advanced materials for defence applications. By leveraging AI technologies, manufacturers can significantly accelerate the discovery, design, and optimization of materials used in critical defence systems, ensuring that they meet the rigorous performance, durability, and safety requirements essential for military and aerospace operations.

**1500 – 1530** **AI-Enhanced Digital Twins in Defence Manufacturing: Revolutionizing Innovation and Efficiency**

The integration of Artificial Intelligence (AI) with Digital Twin technology is transforming defence manufacturing, enabling the development of smarter, more efficient, and adaptive systems. By creating virtual replicas of physical assets and processes, AI-enhanced digital twins provide unprecedented insights into performance optimization, predictive maintenance, and strategic planning in the highly demanding defense sector.

**1530 – 1600** **AI-Driven Sensors for Defence Manufacturing**

**1600 – 1615** **Refreshment Break**

**1615 – 1645** **Autonomous Quality Control and Inspection in Defence Manufacturing**

**1645 – 1715** **Rapid Prototyping and Customization in Defence Manufacturing**

**1715 – 1745** **Multi-Material Integration: Combining Different Alloys to Achieve Superior Hybrid Properties**

**1745** **Concluding remarks and end of Day 1**

# Conference Agenda Day-2

| Session | Session Focus |
|---|---|
| **0800** | **Registration & Coffee** |
| **0855** | **Welcome Remarks by Conference Chair:** |
| **0930 – 1000** | **Cloud-Based Digital Twins: Empowering Scalability, Collaboration, and Real-Time Access** |

Cloud-based digital twins are revolutionizing industries by offering scalable, collaborative, and real-time solutions for managing complex systems. In the realm of smart manufacturing, defence, and aerospace, these digital twins provide unparalleled efficiency and innovation opportunities, enabling organizations to stay ahead in a competitive landscape.

**1000 – 1030** **Autonomous Predictive Maintenance in Defence Manufacturing**

Autonomous predictive maintenance is revolutionizing the way defence manufacturers maintain critical machinery and equipment, ensuring peak performance and minimizing downtime. By combining the power of AI, machine learning, and IoT sensors, autonomous predictive maintenance systems predict equipment failures before they occur, allowing manufacturers to optimize maintenance schedules, improve operational efficiency, and extend the life of costly military assets.

**1030 -1100** **Collaborative Robots (Cobots) in Defence Manufacturing**

# Conference Agenda Day-2

**1100 -1130** **Advanced Logistics Solutions for Defence Production**

As modern defence systems become increasingly complex, the demand for innovative logistics solutions is rising. This includes automated supply chain management systems, advanced distribution networks, and effective maintenance solutions. Manufacturers have the opportunity to develop technologies that enable the tracking, monitoring, and efficient management of military assets across different domains.

**1130 – 1200** **Refreshment Break**

**1200 -1230** **Iterative Prototyping in Defence Manufacturing**

Iterative prototyping is a crucial process in defense manufacturing, allowing for continuous improvement and refinement of complex systems and components. By creating and testing successive versions of a prototype, manufacturers can identify flaws, optimize designs, and ensure that the final product meets stringent operational, performance, and regulatory requirements.

**230 -1300** **Zero Trust Supply Chains in Defence Manufacturing**

Zero trust supply chains in defense manufacturing represent a paradigm shift from traditional trust-based models to a more secure, resilient, and transparent approach. This model operates on the principle of "never trust, always verify," ensuring that every entity, system, and transaction within the supply chain is continuously authenticated, authorized, and monitored.

**1300 -1400** **Networking Lunch**

**1400 -1430** **Supplier Diversification for Supply Chain Resilience**

Supplier diversification is a strategic approach in defence manufacturing to reduce dependency on a single source or limited number of suppliers. This practice enhances resilience, promotes innovation, and mitigates risks such as supply chain disruptions, geopolitical challenges, or economic instability.

**1430 -1500** **Autonomous Systems R&D Opportunities in Indian Defence Sector**

Unmanned Aerial Vehicles (UAVs): Development of combat drones and surveillance platforms. Autonomous Underwater Vehicles (AUVs): For maritime reconnaissance and mine detection. Collaborative Robotics: Human-machine teaming for advanced operational capabilities. All present opportunities for industry to collaborate with primary producers

**1500 -1530** **Directed Energy Weapons (DEWs): Opportunities for Private Industry in India**

Directed Energy Weapons (DEWs), such as laser weapons, microwave weapons, and particle beam systems, are emerging as game-changing technologies in modern defense systems. These weapons provide precision targeting, cost-effective operations, and versatile applications for defense and security forces.

**1530 – 1600** **Latest Developments in Thermal Protection Systems (TPS)**

**1600 -1630** **Refreshment Break**

**1630 -1700** **Ablative Materials for Product Resilience**

**1700 -1730** **Future Trends in Simulation for Defence Manufacturing**

**1730** **Concluding remarks & end of conference**

# Warship & Submarine Manufacturing Expo

## Building the Future of Naval Power Through Innovation, Engineering & Collaboration.

### Shaping India's Naval Power Future

A Strategic Platform Where Navies, Shipbuilders, **OEMs, MSMEs, Startups,** & Policymakers Converge to Drive The Future of **Warship & Submarine Design, Manufacturing & Lifecycle Support.**

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## Why Now

- India's **Naval Modernisation** is accelerating under Atmanirbhar Bharat, with blue-water ambitions & expanding maritime security needs.
- Naval capital acquisition projected at **USD 70–90B over 20 years** (aircraft carriers, destroyers, frigates, submarines, auxiliaries, unmanned platforms).
- Sector challenges: long development cycles, technology gaps (propulsion, materials, sensors), limited visibility for MSMEs and new private players.
- WSSME acts as a **Strategic Bridge** for industry, navy, DPSUs, OEMs, Tier-1 suppliers, and startups to collaborate, showcase capabilities, and enable indigenisation & export readiness.

**Hull, Structures & Marine Materials**
Naval steel, aluminium & titanium alloys, composites, anti-corrosion coatings.

**Propulsion & Power Systems**
Diesel, gas turbines, AIP, hybrid propulsion, energy storage.

**Combat Systems & Mission Equipment**
CMS, VLS, torpedoes, missiles, naval guns, sensors, sonar, radar.

**Electronics, Communication & Cyber**
Navigation Systems, SATCOM, Secure EW & cybersecurity.

**Acoustic, Signature & Stealth Technologies**
Noise reduction, vibration isolation, radar & IR suppression.

**Shipyard & Manufacturing Tech**
Modular shipbuilding, robotic welding, CNC machining, additive mfg.

**Submarine-Specific Systems**
Pressure hulls, life-support, ballast & trim, escape & rescue systems.

**Marine Auxiliaries & Crew Systems**
HVAC, firefighting, desalination, shock-proof furniture.

**Digital Design & Lifecycle Support**
CAD/CAE, CFD, digital twins, predictive maintenance.

**MSMEs & Startups**
Indigenous components, AI & robotics, materials, electronics, JV & offset partners.

## Who Should Attend

- **Government & Armed Forces:** Indian Navy, Coast Guard, Flag Officers, MoD, DGQA, DRDO Labs.
- **Shipbuilders & OEMs:** MDL, GRSE, CSL, HSL, GSL, L&T, Adani Defence, Global Naval OEMs.
- **Suppliers & Tier-1/2/3 MSMEs:** Precision Machining, Propulsion, Electronics, Composites, Coatings.
- **Investors & Strategic Partners:** PE/VC Funds, Family Offices, Shipyard Investors.
- **R&D & Academia:** IITs, IISc, NIOT, Naval Engineering Colleges, iDEX & TDF Innovation Hubs.
- **International Delegations & Media:** Friendly Navies, Defence Attachés, Maritime Journalists.

## Top 5 Benefits

**Exhibiting**

1. Direct access to strategic buyers & program owners
2. Position as a qualified supplier in high-value naval platforms
3. Partnership & JV opportunities with shipyards & OEMs
4. Insights into future naval programs & technology roadmaps
5. Brand visibility in a high-barrier, long-cycle industry

**Visiting**

1. Access India's maritime defence ecosystem
2. Visibility into upcoming programs & tech roadmaps
3. Identify high-value partnerships & supply chain opportunities
4. Learn from global best practices & innovations
5. Strategic networking & business development

SAME
# SmallArms
Manufacturing Expo

# A National Platform Advancing Atmanirbhar Bharat in Small Arms & Ammunition Mfg.

**08 | 09 | 10 April 2026**
**Yashobhoomi, IICC, Dwarka, New Delhi, India**

### India's Platform for Indigenous Small Arms Innovation

A Dedicated Platform Connecting **Armed Forces, CAPFs, OEMs, MSMEs, Startups, Policymakers, & Global Partners** to Accelerate **Make in India** Initiatives in **Small Arms Mfg.**

## Why Now

India is one of the **World's Largest Consumers of Small Arms,** with Demand from **Armed Forces, CAPFs, & State Police.**

**01** Market Projected at **USD 6-8 Billion** Over The Next Decade

**02** Opportunities for **Private Sector, Startups, & Tier-2/3 Suppliers**

**03** Growth Driven by **Modernisation, Indigenisation, Atmanirbhar Bharat Policies,** & OFB Corporatisation

**Challenge:** Access to Technology, Testing Infrastructure, Supply-chain Localisation, Quality Assurance, & Export Readiness.

## Expo Advantage

- Direct Engagement with **End Users, Policymakers & Industry**
- Technology Transfer & **Tiered Supplier Integration**
- Standardisation, Quality Benchmarking, & **Export Positioning**
- One-stop Ecosystem for **Weapons, Components, Machinery & Ammunition**

## Exhibitor Focus Areas

- **Core Weapon Platforms:** Assault Rifles, Carbines, Battle Rifles, SMGs, Pistols Shotguns, F-INSAS Aligned Systems
- **Ammunition & Ballistics:** Small-calibre Ammo, Cartridge Cases, Primers, Bullets, Training Rounds, Ballistic Testing
- **Components & Materials:** Barrels, Receivers, Triggers, Gas Systems, Magazines, Suppressors, Alloy Steels, Polymers, Coatings
- **Optics & Fire Control:** Iron Sights, Scopes, Night Vision, Laser Modules, Smart Fire-control Systems
- **Manufacturing & Testing:** CNC Machining, Barrel Forging, MIM, 3D Printing, Heat Treatment, QA & Certification
- **Smart & Future Tech:** AI-assisted Targeting, Digital Twins Predictive Maintenance, Lifecycle Management

## Who Should Attend.?

- **Armed Forces & CAPFs:** Army, Navy, Air Force, MARCOS, Garud Commandos, Special Units
- **Government & Policy:** MoD, MHA, DDP, DRDO, Ordnance Factories, State Procurement Bodies
- **Defence OEMs & Integrators:** Weapon & Ammo Mfg, System Integrators, Sight/optic Companies
- **Suppliers & Startups:** Tier-1/2/3 Component Mfg, MSMEs, iDEX Startups
- **Investors & Strategic Partners:** Defence PE/VC Funds, Export & Offset Stakeholders
- **Testing, Academia & R&D:** Ballistics Labs, DRDO Institutions, Certification & QA Bodies

## Why Exhibit

- Direct Access to Key Buyers
- Showcase Indigenous Capabilities
- Engage OEMs & Global Partners
- Unlock Export & Offset Opportunities
- Product Validation & Industry Visibility

## Why Visit

- Complete Small Arms Ecosystem
- Evaluate Indigenous Alternatives
- Stay Ahead of Procurement Trends
- Network with Decision-makers
- Explore Technology & Policy Insights

# DMME
## Defence Mobility Manufacturing Expo

**08 | 09 | 10 April 2026**

**Yashobhoomi, IICC, Dwarka**
**New Delhi, India**

# Transforming India's Defence Mobility Through Innovation, Integration & Collaboration.

### Driving India's Military Mobility Future

Where India Designs, Builds, and Deploys **Next-generation Defence Mobility Solutions.** A Focused Platform Connecting **Armed Forces, DPSUs, OEMs, MSMEs, Startups, Policymakers, and Global Partners** to Accelerate Indigenous Defence Mobility Under **Make in India**

## Why Now

**India's Defence Mobility Sector** - Covering Armoured Vehicles, Tactical Mobility, Artillery Carriers, UGVs, & Battlefield Logistics - is Entering a High-growth Phase, Driven by:

- **Rising Defence Budgets**
- **Atmanirbhar Bharat Initiatives**
- **Growing Requirements of Armed Forces & CAPFs**

**Market Outlook:** USD 100–120 Billion, Making Mobility Platforms One of The Fastest-growing Procurement Segments.

## Expo Advantage

**Direct Access to Users, Industry & Policymakers**

**Align with Live Procurement & Modernisation Programs**

**Accelerate Partnerships, Reduce Entry Risk, Deliver Results**

**Outcome:** Turning Policy into Deployable Defence Solutions.

## Exhibitor Focus Areas Input Martials, Components, Technologies for:

- Armoured & Tactical Vehicles
- Artillery, Missile & Weapon Carriers
- Unmanned & Autonomous Ground Vehicles
- Powertrain, Armour, Electrc & Vetronics
- Manufacturing, Testing & Lifecycle Support
- Startup & Innovation Zone

## Who Should Attend

- Armed Forces, CAPFs & DRDO
- Defence OEMs, DPSUs & Integrators
- Tier-1 / Tier-2 Suppliers & MSMEs
- Policymakers, Investors & Defence Corridors
- MROs, Academia & Think Tanks

## Why Exhibit

- Connect with uniformed decision-makers
- Showcase indigenous capability
- Engage OEMs & global partners
- Full value chain visibility
- Faster business qualification

## Why Visit

- Explore complete defence mobility ecosystem
- Discover next-gen technologies
- Streamline procurement & sourcing
- Gain policy & program insights
- Build high-value strategic networks












## CONTACT US

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