#### **SUPPORTED BY\***



Ministry of Defence | Ministry of Railways Department of Scientific and Industrial Research Department of Science & Technology Ministry of Road Transport and Highways Ministry of Power | Ministry of Steel | Ministry of Shipping Ministry of Micro, Small and Medium Enterprises **GOVERNMENT OF INDIA** 





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Bombay Exhibition Centre, Mumbai, India



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All India Association of Industries

ies Thane Belapur Industries Association

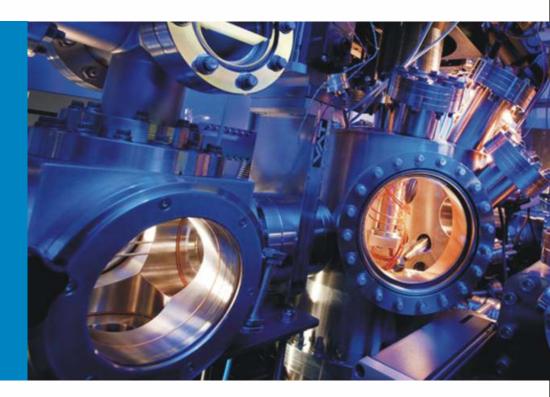


TAFCON

### **EVENT OVERVIEW**

Technological advancements in sectors of DEFENCE, TRANSPORT and ALTERNATE ENERGY have been possible due innovations in MATERIALS with better properties.

- An exclusive platform for Indian and International exhibitors for display and launches of new initiatives, machinery, products and technologies, establishing joint ventures, developing and renewing international and regional contacts.
- Expected to be have about 300 Stalls, 600 Delegates, 80 Speakers from over 20 countries.
- Participation of Government Departments, PSUs, Corporates, SMEs, Start-up Organisations.
- Concurrent 3 days high level international conference will offer industry focused keynote addresses, plenary sessions, panel discussions and technical presentations.
- Innovation / Start-ups, SMEs, R&D Institutes, Academia, etc. will showcase their global developments.
- Innovation Pavilion inviting Models / Posters from Entrepreneurs and Engineering Students.
- Student Outreach programme from the senior Engineering Students.



### **MAJOR SPONSORS & PARTICIPANTS OF EARLIER EDITIONS**



# **REASONS TO INVEST IN INDIA**

- The Indian Defence sector has been at the cusp of revolution, with the Government giving a push to establishment of indigenous manufacturing infrastructure supported by a requisite research and development ecosystem in the Defence and Aerospace sectors.
- Equipment spending by Ministry of Defence has increased 15-20% over the last five years and is projected grow at a much escalated speed in near future.
- India is on its path to becoming the manufacturing hub for world corporations and is already exporting defence equipment to over 75 countries.
- Indian Army unveils Six new 'Make-II Projects' spanning technologies across unmanned systems, technologies to counter such systems as well as emerging solutions for augmenting air defence capabilities.
- Indian Navy is focussed on the incorporation of Artificial Intelligence (AI) and Machine Learning (ML) in critical mission areas.
- 25% of defence R&D budget has been earmarked for private industry and start-ups which will pave the way for innovations in new defence technologies.
- Transport sector forms the largest sector under the National Infrastructure Pipeline. Under the National Infrastructure Pipeline (NIP), US\$1.4 trillion infrastructure projects are expected to be completed by 2025, of which 21% are expected from the private sector.
- The Indian Railway Industry is on a fast track modernisation and expansion drive by development of high speed and bullet trains with advanced train designs, and are also committed to reaching net zero carbon emissions by 2030 by making the rail network fully electrified and by use of renewable energy.
- The National Monetization Pipeline (NMP) includes ambitious plans to privatise Railway assets. It accounts for the second largest share of 25% in the NMP with a value of INR 1.52 lakh crore. Asset monetization of INR 44,907 crore has been planned for FY24 and INR 32,557 crore for FY25.
- National Rail Plan aims to increase share of freight traffic from current percentage of 27% to 45% by 2051.
- India's transportation and logistics sector is poised to grow at a compounded annual growth rate (CAGR) of around 4.5% during 2022 to 2050. This growth will align with the Government's targets to reform and develop the Transport sector of the country, from capacity expansion of Ports to building greenfield Airports and Expressways.
- Government plans to invest INR 98,000 crore on construction of new airports and modernising existing ones by 2025. Over two-third of this investment (INR 67,000 crore) will be made by the private sector on greenfield projects.
- India's Roads and Highways infrastructure market is expected to register a CAGR growth of 36.2% during 2016 to 2025. Highway construction is already expanding at a fast pace in the country, increasing from 6,061 km in FY16 to 10,457 km of roads constructed in Fy22.







- India targets 50% cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030.
- India aims to reach a non-fossil fuel energy capacity of 500 GW by 2030.
- Solar Power tariff reduced by more than 75% using plug and play model.
- India planning to have a capacity of 30,000 MW of Offshore wind and manufacture of high efficiency solar cells and modules of which India is going to set up 50,000 MW capacity.
- Indian Government aims to have a total investment of INR 8 lakh crores in green hydrogen, and production could be 5 MN tons by 2030. The fuel will be used to replace 25% of 'grey' hydrogen, created using natural gas or methane, within 5 years.
- India, US, China and Brazil are in consultation to form a 'Global Biofuels Alliance' to explore opportunities for cooperation and intensifying use of sustainable fuels, particularly in the transportation sector.
- Adoption of clean cooktop fuels, such as use of solar cooktops will give a boost to green and clean cooking and more than 3 crores households will have access to such cooktops in the next 2-3 years.

## **EXHIBITING PROFILE**

Will encompass exhibitors from Indian and International equipment manufacturers, R&D organisations, Raw Material suppliers, Components, sub-assemblies, finished products etc. for these focus sectors.

#### DEFENCE

- Metallic Materials and Alloys in Defence Equipment
- Advanced & Smart Materials for Defence weapons & Systems
- Composites
- Inorganic non-metallic materials- Ceramics, Polymers, Cement, Glass, Fibers etc.
- Energy Materials Solar Photo Voltaic, Graphene etc.
- Nano structured Materials and technology
- Addictive Manufacturing & 3D Technologies
- Automation & Robotics
- Fibre Optics and Assemblies
- Digital technologies in Defence Manufacturing
- Thermoplastics and Rubber Components
- Electronics, Electro optics & Magnetic Components
- Lasers & Laser Systems
- Contract Manufacturing Services
- Controls CAD/CAM Software's
- Artificial Intelligence
- Software/Simulations
- Micro Manufacturing & Precision Machinery
- Coolants, Oils & Lubricants
- RFID Technologies
- Cyber Security
- Hypersonic weaponry.
- Sub-Assemblies & Component Manufacturer & Suppliers
- Design and Engineering Organisations
- High Tech Safety & Security related systems & equipment's
- High performance fabrics
- Protective and Armouring equipment's.
- Material R&D Organisations (Laboratories, Academia)
- MRO Services.

### **TRANSPORT**

- Rail Production Units
- Rolling Stock and Locomotive Manufacturers
- Rail Coach / Wagon Manufacturers
- Component and Equipment Suppliers
- Rail Subsystems and Component Suppliers
- Track and Infrastructure Equipment & Services
- Rail Infrastructure Developers
- Aircraft & Helicopter Manufacturers
- Aircraft Machinery & Equipment
- Airport Infrastructure
- Submarine Manufacturers
- Freight / Cargo / Shipping Digital Platforms
- NVOCCs
- CFS/ICD Operators
- Material Handling Systems
- Auto / Smart Manufacturing
- Automated Parking Systems
- Electric Vehicles & Charging Infra
- Fleet Management Systems
- High-Tech Safety and Security Solutions
- Integrated Command and Control Centre (ICCC)
- Logistics & Supply Chain Management
- Road Construction and Surfacing Equipment
- Geographical Information Systems
- Electrification and Green Technologies
- Drones, Remote Diagnostic and Tracking Systems
- Overhead Lines & Cable Systems
- Measurement, Testing & Monitoring Systems
- Freight, Transport and Logistic Companies
- Technologies & Automation
- IT and Communications

### **ALTERNATE ENERGY**

- Alternate Energy Producers
- Clean Fuel Producers
- Transmission & Distribution
- Electricity Load Management
- Batteries & Generators
- Grid Solutions
- Solar Panel Manufacturers
- Photovoltaic Power Stations & Panels
- Turbine Manufacturers & Installers
- Turbine Component Manufacturers
- Storage Technology
- R&D Institutes & Laboratories
- Automation & Instrumentation
- Design & Engineering
- Measuring, Testing and Controlling
- Energy Efficiency & Conservation
- Pollution Control Equipment & Services
- Importers & Exporters
- Smart Equipment
- Wires & Electricals
- Scientific Organisations
- Drones Manufacturers
- Chemical Manufacturers
- Health, Safety & Security
- IT Companies & Solution Providers
- Service & Maintenance
- Robotics Technologies



# **VISITORS PROFILE**

- Defence Industry
- Railways Industry
- Infrastructure & Transportation Industry
- Roads and Highways Industry
- Aviation & Aerospace Industry
- Steel & Metallurgy Industry
- Alternate / Renewable Energy Industry
- Electrical / Electronics
- Material Testing and Inspection
- Metal Components and Products
- Locomotives & Coaches Manufacturers
- Technology Providers and Consultants
- Manufacturers & Suppliers
- Rail Coach Factories
- Metro and Rapid Rail Organisations
- Digital and Emerging Technologies

- Automobile Industry
- Electronic Industries
- Molds and Dies
- Oil and Gas Marine & Offshore
- Central and State Government Senior Officials
- Policy Makers and Entrepreneurs
- Government Departments
- Research & Development Technology Institutes
- R&D Professionals & Academicians
- Investors, MNC's, Industrialist and Traders
- Banking and Financials Institutions
- Equipment Buyers & Suppliers
- Importers, Exporters & Traders
- Industry Associations, Chambers
- Foreign Trade Commissions
- Trade Delegations



## **KEY FIGURES OF LAST EDITION**



# **PARTICIPATING OPTIONS**

#### **OPTION 1: Bare Space (inside AC Exhibition Hall)**

Exhibitors can adopt design of their choice with approval of the organiser.

#### OPTION 2: Built-Up Stall (inside AC Exhibition Hall)

<u>Includes:</u> Wall Panels, Carpet, Fascia in English, 1 Spotlight per 3 sqm., One 5 amp socket per 12 sqm., 1 Counter, 3 Chairs, 1 Glass Top Round Table, Basic Electricity consumption, Cleaning of the Stalls.

#### **OPTION 3:** Sponsorship

Choose from Various Sponsorship Packages (inclusive of exhibition space). Contact our Mr. Amit Kumar, Email: metexpo@tafcon.in for Sponsorship and Branding Catalogue.

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- Aimil Ltd.
- AkzoNobel India Ltd.
- ALD Vacuum Technologies India Pvt. Ltd.
- All India Association of Industries
- All India Plastic Industries Association
- Alleima India Pvt. Ltd.
- AMB Electronic System Tech Pvt. Ltd.
- AMI Polymer Pvt. Ltd.
- Ananth Technologies Ltd.
- Arabian Petroleum Ltd.
- Avdhoot Heat Treat Pvt. Ltd.
- Banaras Locomotive Works (BLW)
- Bharat Electronics Ltd.
- Bharat Forge Ltd. (Kalyani Group)
- Chittaranjan Locomotive Works (CLW)
- CRC India Manufacturing and Distributors Pvt. Ltd.
- CSIR Institute of Minerals and Materials Technology
- CSIR National Environmental Engineering Research Institute (CSIR-NEERI)
- Daksh Quality Systems
- Defence Laboratory Jodhpur, Jodhpur
- Defence Materials and Stores Research and Development Establishment, Kanpur
- Defence Metallurgical Research Laboratory, Hyderabad
- Defence Research and Development Organisation

- Desktop Metal
- Dhanaprakash Industrial Corporation
- Directorate of Industries, Government of Jharkhand
- Dr. Fritsch Machines & Powders Pvt. Ltd.
- EC Metals India Pvt. Ltd.
- ECM Technologies
- EEPC India
- EFD Induction Pvt. Ltd.
- Engineering Review (Divya Media Publications Pvt. Ltd.)
- EPC World
- Eurosense Analyticals Pvt. Ltd.
- Eurotherm India Pvt. Ltd.
- ExOne Gmbh
- Fibrotemp Metatek India Llp
- Filfab Corporation (SMD)
- Fine Finish Organics Pvt. Ltd.
- Fluidtherm Technology Pvt. Ltd.
- Forgings Today
- FuelSave
- G.N.R. Srl
- Gates India Pvt. Ltd.
- Gem Orion Machinery Pvt. Ltd.
- Global Axis Ltd.
- Grasim Industries Ltd.
- Hapag Lloyd India Pvt. Ltd.
- Heat Treat Today
- Hind High Vacuum Company Pvt. Ltd.
- Hindalco Industries Ltd.

- I R Technology Services Pvt. Ltd.
- India Strategic Inc.
- Indian Railways
- Indian Rubber Manufacturers Research Association
- Indo German Chamber of Commerce
- Industrial Product Monitor
- Infrastructure Line
- Institute for Plasma Research
- Integral Coach Factory (ICF)
- International Advanced Research Centre for Powder
- Metallurgy and New Materials (ARCI)
- International Federation for Heat Treatment and Surface Engineering (IFHTSE)
- International Thermal Systems
- Iron & Steel Review
- Jay Elastomers Pvt. Ltd.
- Jiangsu Cera Thermal Technology Co., Ltd.
- John T. Hardaker India Pvt. Ltd.
- JR Furnace & Ovens Pvt. Ltd.
- JSW Cement Ltd.
- JSW Energy Ltd.
- JSW Foundation
- JSW Group
- JSW Infrastructure Ltd.
- JSW Paint Pvt. Ltd.
- JSW Steel Ltd.
- Kalyani Technoforge Ltd. (Thermal Processing Division)
- Kanthal

## **PARTICIPANTS OF LAST EDITION**

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- Plasma Induction India Pvt. Ltd.
- PMA Controls India Ltd.
- Pradeep Metals Ltd.
- Pune Gas Projects Pvt. Ltd.
- Pune Gas Systems Pvt. Ltd.
- Rail Analysis India (Projection Strategy Llc)
- Rail Coach Factory, Kapurthala (RCF)
- Rail Wheel Factory (RWF)
- Raj Mesh Belt Co.
- Reliance Industries Ltd.
- Research Design and Standards Organisation (RDSO)
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- Rubig GmbH & Co Kg
- S.R. Thermal Solution
- Saarloha Advanced Materials Pvt. Ltd.
- Sajjan Precision Castings
- Seco Warwick Systems & Services (India) Pvt. Ltd.
- Smart Induction Converter Technologies, S.L.
- Society of Indian Defence Manufacturers (SIDM)
- Space Product Finder

- Spraymet Surface Technologies
- Steel & Metallurgy
- Suntec Energy Systems
- Tata Advance Systems Ltd.
- Tata Group
- Tata Motors Ltd.
- Tata Power Company Ltd.
- Tata Steel Ltd.
- Technology Development Board, GOI
- Tekman India Pvt. Ltd.
- Tempsens Instruments India Pvt. Ltd.
- Thane Belapur Industries Association
- Toshcon CD Automation India Pvt. Ltd.
- Triton Electric Vehicle India Pvt. Ltd.
- UltraTech Cement Ltd.
- Uniloc Fasteners
- United Enterprises
- Urja Products Pvt. Ltd.
- Veekay Industries
- Webzworld
- WS Thermal Process Technologies Inc.
- Wuxi Junteng Fanghu Alloy Casting Co., Ltd.
- Xitiz Technomech Llp
- Yamayo India
- Zara P Care Melika
- 99 Machinery for You

# **TESTIMONIALS...**



These events would pave the way for many path-breaking innovations

Nitin Gadkari Hon'ble Minister for Road Transport and Shipping Government of India



Priviledged to attend the MET+HTS 2022. I am sure that these Exhibitions will serve the purpose of 'Atmanirbhar Bharat' vision of Hon'ble Prime Minister. My best wishes for the grand success of these Events. "Jai Hind"

> Ajay Bhatt Hon'ble Defence Minister of State, GOI



**Excellent Talent Display** 

Late Mr. Manohar Parrikar Hon'ble Minister of Defence, Government of India

I am very happy that JSW is associated

Saiian Jindal

Chairman, JSW Group

with this programme under the aegis of ASM.



Good to see remarkable advancement in Research and Development and this is the way we move forward as a Strong Nation

Ch. Birender Singh Hon'ble Minister of Steel, Government of India



The event is very well organised. I enjoyed visiting the stalls and was enlightened with the kind of work that is happening in the industry. My best wishes for a very successful event.

> Dr. S.V. Kamat Secretary and Chairman, DRDO

Very proud to see this great Indian prowess at these exhibitions

Dr. R. A. Mashelkar Chancellor, AcSIR National Research Professor, CEPD, National Chemical Laboratory, CSIR Director, Reliance Industries Ltd,



Am extremely impressed by the Exhibition; the range of technology & products covered in the exhibition is impressive and completely in line with Atmanirbhar Bharat. Many congratulations to Organizers.

Rear Admiral R.K. Shrawat (Retd.) Chairman, Naval Group, GOI



A pleasure to be at a very well organised event. The facilities & stalls laid out have been absolutely brilliant. Kudos to the team. Jai Hind

> Maj Gen Rakesh Manocha HQ MG&G Area, Ministry of Defence, GOI



Felt enlightened to be among the elite crowd who produce materials for the defence sector. It was a pleasure interacting with various functionaries of ASM, SIDM & other Panelist. All the very best in all endeavours of ASM to keep the country flag high. Jai Hind!

AVM S.K. Jain ACAS (MP), Air HQ, Ministry of Defence, GOI



Excellent Organisations. Compliments

S.P. Shukla Chairman, Mahindra Aerospace, Defence & Mahindra Sanyo Steel



We all can mutually gain by knowing who are doing what in these sectors

Hemant Kumar Member (Rolling Stock) Railway Board Ministry of Railways, GOI

# **TESTIMONIALS...**



The exhibition is of world class showing the prowess of India, and its innovative capabilities

M.V.S. Seshagiri Rao Jt. M.D. & Group CFO, JSW Steel Ltd.



A wider collaboration between the Corporates, PSUs and Scientists, is the need of country like India, with vast growth potential in all these sectors is displayed in this Event Shailendra Roy

Director & Sr. VP - Power, Head, Nuclear - L&T Group



Excellent show and beautifully arranged one. Keep it up!!!

> Arun Goradia Chairman, EEPC India



Most outstanding arrangements for the event; Good luck for the next edition.

> Pradeep Goval Sr. VP. ASM International, USA Chairman, Pradeep Metals Ltd.



My heartiest congratulations to ASM India Chapter & Tafcon. The event is again a trailblazing success.

Manish Bhimte

Chief Mechanical Engineer /

IT & Safety Western Railway, GOI

C. (Ravi) Ravindran Past President, ASM International Past President, Canadian Academy of Engineering



Amazing foot traffic in exhibition. Very well organized.

Dr. T.S. Sudarshan President & CEO, Materials Modification Inc., USA



Excellent event with participation from the Industry, Academia & Labs. It is a great platform for Industry-Labs -Universities, to identify best areas for a great collaboration.

Dr. Navin Manjooran Chairman, SOLVE & VP, ASM International, USA



Most useful show I have ever attended. A lot of knowledge on technology.

Himanshu B. Patel Founder & CEO, Triton Electric Vehicles LLC, USA

# **KEY HIGHLIGHTS LAST EDITION**

- INAUGURATION by Chief Guest: Shri Ajay Bhatt, Hon'ble Minister of State for Defence along with Dr. Samir V Kamat, Secretary, Department of Defence R&D and Chairman, DRDO.
- INTERNATIONAL CONFERENCES (organised by ASM) with the theme ADVANCES IN MATERIALS ENGINEERING TECHNOLOGY" & "ADVANCES IN HEAT TREATMENT" were well attended and had high level panel discussions and presentations on role of Advanced MATERIALS and TECHNOLOGIES for Defence, Railways, Aerospace, Transport, Energy, Space. And Challenges for Heat Treat industry like Plasma Nitrading, Additive Manufacturing and many more.
- REVERSE BUYER SELLER MEET (RBSM) BY EEPC Foreign Buyers from different Countries held one to one business meetings with the Exhibitors, giving oppurtunities for direct orders and Exports.
- "INNOVATION PAVILION" (Powered by Minex) showcased Innovations / Start Ups, by about 15 companies.
- "ROUND TABLE SESSION" (in partnership with SIDM), on the Defence Equipment Acquisition with the theme "Innovations and Indigenization in Defence Materials and Manufacturing" was very successful and saw participation from all the 3 Defence Forces and corporates manufacturing for the Defence Industry





### **GLIMPSES OF LAST EDITION**































### **GLIMPSES OF LAST EDITION**























































### **VENUE - BOMBAY EXHIBITION CENTRE (BEC)**

BEC is one of the Largest Exhibition Centre in Western India. After decades of hosting prestigious International Trade Fairs and Exhibitions, BEC is still among the most well facilitated and convenient venues in the country. It is ideally situated along the Western Express Highway in Goregaon, within 10 minutes from Airport, walking distance to Train Stations and a 20 minute drive from the Heart of the City. There are numerous Hotels, Entertainment activities, Shopping & Sightseeing Spots in close proximity.

BEC consists of 5 Large Exhibition and many Conference Halls spread across over 60,000 square meters of Centrally Air-Conditioned space for conducting Exhibitions & Conferences. It is one of the best well designed and busiest Exhibition Centre across the Country. The Halls are Wi-Fi enabled, have ample height, good lighting, well-designed ventilation and strong flooring to withstand even the heavy machinery.

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etc. at National and International levels.

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**TAFCON** - A professionally managed company with over six decades of experience and expertise in organizing international Trade Fairs and conferences in India and Overseas, on various industry sectors namely Mineral & Metals, Materials Engineering Technology, Heat Treat, Defence, Railway, Energy, Construction, Environment, Oil & Gas, Mining, Poultry, Dairy & Food Technology, Packaging, Printing Machinery, Travel & Tourism, Education, Surface Engineering, Paints & Coating & allied industries etc.



**Contact Us** 

For Conference: **ASM INTERNATIONAL - INDIA CHAPTER** 409. Srishti Square, LBS Marg, Bhandup (West) Mumbai - 400079. Maharashtra. India Tel: +91-22-35933220 Email: asmindia79@gmail.com Web: www.asm-india.com

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