

ORGANISED BY



5th Edition

Presents

MET 2024

Material Engineering, Equipment & Technology
Exhibition on Defence, Transport and Alternate Energy

Wed. 4th - Fri. 6th September 2024

Bombay Exhibition Centre, Mumbai, India

FOCUS SECTORS



DEFENCE



TRANSPORT



ALTERNATE ENERGY

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Industry Support ▶



All India Association of Industries

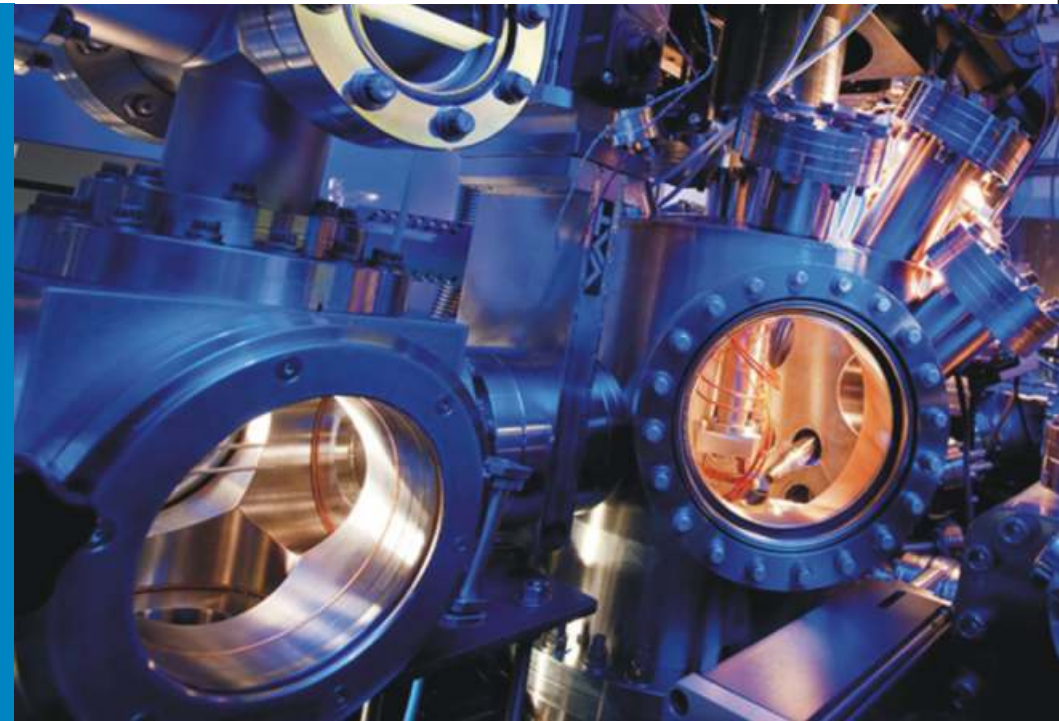


Thane Belapur Industries Association

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

DEFENCE SECTOR

- 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

- 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.

ALTERNATE ENERGY

- 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
- Additive 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

164 Exhibitors

14,256 Footfalls

12 Countries

528 Delegates

142 Speakers

Jharkhand - Focus State

Reverse Buyer Seller Meet

Innovation Pavilion

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)

Includes: 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.

PARTICIPANTS OF LAST EDITION

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- Aggarwal Soundcast Pvt. Ltd.
- 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.
- IR 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

- Keepsake Engineering Consultancy Pvt. Ltd.
- Keller - ITS India LLP
- Kermetico Inc, USA
- Kinetic Surface Technologies
- Kisco Castings India Ltd.
- Kotak Mahindra Bank Ltd.
- Lakshmi Vacuum Technologies Pvt. Ltd.
- Larsen & Toubro Ltd.
- Leister Technologies India Pvt. Ltd.
- Magnatherm Alloys Pvt. Ltd.
- Maharashtra Multi Distributors Ltd.
- Mahindra & Mahindra Ltd.
- Mahindra Defence Systems Ltd.
- Mangalore Minerals Pvt. Ltd.
- Manglam Electricals
- Marathon Heater India Pvt. Ltd.
- Mazagon Dock Shipbuilders Ltd.
- MEC Shot Blasting Equipments Pvt. Ltd.
- Megatherm Induction Pvt. Ltd.
- Metal Power Analytical Pvt. Ltd.
- Metalspain.Com
- Metatech Industries
- Microcon
- Millenia Technologies (I) Pvt. Ltd.
- Minex Metallurgical Co. Ltd.
- Modern Coach Factory, Raebareli (MCF Raebareli)
- Munitions India Ltd.
- Nandan Petrochem Ltd.
- Naval Materials Research Laboratory
- Nilkamal Ltd.
- Northwest Mettech Corp.
- Orbit Technologies Pvt. Ltd.
- Ore and Metals Publishing House
- Oxilon Pvt. Ltd.
- Patiala Locomotive Works (PLW)
- Phillips Machine Tools India Pvt. Ltd.
- 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)
- Riello
- 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



Privileged 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



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



I am very happy that JSW is associated with this programme under the aegis of ASM.

Sajjan Jindal

Chairman, JSW Group



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



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



MET+HTS 2022 is very professionally organised and i got insightful ideas during deliberations.

Manish Bhimte
Chief Mechanical Engineer /
IT & Safety Western Railway, GOI



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 Goyal
Sr. VP, ASM International, USA
Chairman, Pradeep Metals Ltd.



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

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

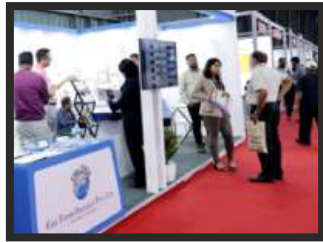
KEY HIGHLIGHTS LAST EDITION

- 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 Nitriding, 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 opportunities 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.

ORGANISED BY



ASM INTERNATIONAL (INDIA CHAPTER) - Established in the year 1979, is one of the most active chapters in the world. It organizes technical courses on subjects like Heat Treatment, Welding, Metallurgy for the Non-metallurgist, Metal Forming, Stainless Steels, Non-ferrous Metals, Thermal Spraying, etc. under the Continued Education Programme for engineers and technocrats. Other activities include Conferences, Workshops and Exhibitions on recent developments in Materials Processing, Materials Application Engineering, Heat Treatment, Equipment, etc. at National and International levels.



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

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Co-Located with

15th Edition
JSW
Presents
HTS 2024
International Exhibition on Heat Treatment
Wed. 4th - Fri. 6th September 2024
Bombay Exhibition Centre, Mumbai, India