



**THE INSTITUTE  
OF INDIAN  
FOUNDRYMEN**

# FIC DARPAN

Monthly Bulletin of The Institute of Indian Foundrymen



## COVER FEATURE



### Smelting Smarter:

How AI-Driven Analytics Can Transform the Indian Foundry Industry

### IFC & EVENTS

Indian Foundry Congress, directory updates and key national & international events.

### INDUSTRY MARKET PULSE

Auto industry logs best Nov sales; PV dispatches surge 19%: SIAM.



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## Smelting Smarter:

### How AI-Driven Analytics Can Transform the Indian Foundry Industry

#### Introduction: The Melting Point of Tradition and Transformation

India's foundry industry—often called the bedrock of manufacturing—has long powered the country's growth across automotive, agriculture, railways, aerospace, and construction. With over 4,500 foundries across key industrial clusters, India is the **second-largest casting producer globally, behind only China**<sup>1</sup>.

But beneath this industrial might lies a crucible of inefficiencies.

Rising input costs. Inconsistent quality. Unpredictable downtimes. Manual operations. Fragmented decision-making. Foundries, especially small and mid-sized ones, are stuck in the analog age while the world has gone digital.

Enter **Artificial Intelligence (AI)** — not as a buzzword, but as a real, applied technology reshaping how modern foundries melt, mold, monitor, and master their operations.

#### Foundries in Flux: The Traditional Landscape of Indian Casting

Many Indian foundries rely heavily on intuition-driven decision-making. Furnace operations are guided by operator experience. Data lives in spreadsheets or physical logbooks. Quality issues are often discovered after production, leading to costly rework or scrap. Preventive maintenance is rare; reactive breakdowns are the norm.

Even among large-scale players, process monitoring is minimal and real-time analytics is almost non-existent. Cross-department collaboration is often siloed. The result? Sub-optimal yields, excess energy consumption, and missed deadlines.

#### What is AI-Driven Analytics? (And Why Should Foundries Care?)

AI-driven analytics uses machine learning, data science, and intelligent algorithms to analyze real-time and historical production data to generate actionable insights



**Mr. Bipul Kumar,**  
Associate Director -  
Accenture Solutions  
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#### What You'll Learn in This Article:

- **Why AI-driven analytics is a game changer for Indian foundries**
- **How it optimizes cost, performance, and real-time decision-making**
- **Real-world use cases from Indian and global foundries**
- **Key challenges (and myths) around AI adoption—and how to overcome them**
- **A step-by-step AI transformation playbook for foundries**

Think of it as a **digital brain** that monitors your operations, learns from patterns, and suggests smarter ways to work.

Imagine AI that can:

Forecast equipment failure before it happens

**Optimize energy** use based on load patterns

Predict defects and correct them in **real time**

Provide performance dashboards **tailored to each role**

This isn't science fiction—it's already happening.

### **Real-World Glimpse: AI in Action**

Here are a few standout examples of AI being used effectively in the foundry and broader manufacturing space:

**Tata Steel (India):** Uses AI and machine learning to optimize blast furnace operations, predict equipment failure, and reduce energy consumption across plants<sup>2</sup>.

**Brakes India Ltd.:** Partnered with a local AI startup to implement computer vision-based predictive quality inspection in foundry operations, improving first-pass yield and reducing defects<sup>3</sup>.

**Bosch India:** Adopted AI-driven condition monitoring and predictive maintenance tools across its manufacturing lines, including cast component assembly<sup>4</sup>.

**Hitachi Foundry (Japan):** Leverages digital twins and AI for real-time simulation of casting processes, improving yield and reducing material wastage<sup>5</sup>.

**Volkswagen Group (Germany):** Uses computer vision and deep learning for defect detection in die-casting and machining processes<sup>6</sup>.

### **Key Applications of AI in Foundries: Turning Data into Gold**

AI-driven analytics enhances cost, performance, and agility across the foundry value chain:

#### **a. Cost Optimization**

**Predictive Maintenance:** AI-based predictive maintenance can reduce unplanned downtime by up to 40%, using real-time sensor data<sup>7</sup>.

**Smart Energy Management:** AI enables 10–20% energy savings by optimizing furnace load, cycle time, and power supply (8) (9).

**Scrap & Rework Reduction:** AI-based quality models can reduce casting defects and scrap by up to 25%<sup>10</sup>.

#### **b. Performance Enhancement**

**Process Optimization:** AI fine-tunes casting parameters—temperature, mold fill rate, cooling duration—for 5–15% throughput gains<sup>11</sup>.

**Real-Time Monitoring:** AI-enabled dashboards help detect anomalies and reduce minor stoppages by 30%<sup>12</sup>.

**Yield Improvement:** Root cause analytics driven by AI improves output without increasing input, with yield improvements up to 10%<sup>13</sup>.

### c. Faster, Better Decision-Making

**Forecasting & Dashboards:** AI-powered planning tools improve production accuracy by 15–20%<sup>14</sup>.

**Supplier Analytics:** Smart procurement tools cut material costs by 5–10%, evaluating supplier performance across cost, quality, and delivery<sup>15</sup>.

#### **Real-World Spark:** Foundries That Got Smarter with AI

Indian foundries are already proving that AI works—even in resource-constrained settings:

**Rajkot Foundry:** Installed vibration and thermal sensors linked to predictive maintenance software, reducing downtime by 35% and saving over ₹40 lakhs annually in maintenance costs<sup>16</sup>.

**Coimbatore Auto Supplier:** Adopted an AI-powered visual inspection system to monitor casting defects in real-time, cutting defect rates by 18% within six months<sup>17</sup>.

**Pune Foundry Cluster:** Collaborated with an AI energy management startup to optimize furnace energy use across multiple foundries, collectively saving ₹12 crores per year in electricity bills<sup>18</sup>.

Globally, companies like Caterpillar, Volvo, and General Motors have successfully integrated AI in casting operations—achieving higher yields, lower emissions, and agile production at scale<sup>19</sup>.

#### **The Molten Core:** Challenges to AI Adoption (and How to Beat Them)

For Indian foundries, the path to AI-powered transformation isn't just paved with code—it's strewn with operational, cultural, and economic roadblocks. But these aren't insurmountable. Most are myths waiting to be busted or problems waiting to be solved with the right mindset.

Let's break down the real (and perceived) barriers—and how to forge through them.

### 1. "We Don't Have the Right Skills"

**The Challenge:** Foundry workers are experts in metal, not machine learning. Many decision-makers fear AI will be "too technical" for their workforce.

**The Reality:** AI adoption doesn't require every employee to become a data scientist. What's needed is AI fluency— Think of it as the digital equivalent of machine literacy. Just like operators don't build CNC machines but know how to use them —AI fluency empowers foundry teams to leverage AI tools confidently with basic awareness and comfort with dashboards, alerts, and patterns.

#### **The Fix:**

Run internal workshops explaining AI in simple, contextual terms.

Partner with local engineering colleges or Samarth Udyog centers for tailored upskilling programs.

Appoint cross-functional "digital champions" from existing staff to bridge tech and ops.

## 2. “Our Data Is a Mess”

**The Challenge:** Many foundries don't have structured or clean data. What exists is often siloed, inconsistent, or recorded manually.

**The Reality:** You don't need a massive data lake to start with AI. In fact, many pilot projects succeed with just 2–3 key data streams (like temperature, vibration, or cycle time). Remember, you don't need perfect data, you need consistent data.

### **The Fix:**

Begin with basic sensors—temperature probes, load cells, vibration meters.

Digitize existing logs using Excel or simple cloud tools.

Ensure timestamping and consistency in naming, units, and formats.

## 3. “We Can't Afford It”

**The Challenge:** AI is perceived as expensive, especially for MSMEs already operating on thin margins.

**The Reality:** With the rise of AI-as-a-Service (AIaaS) models and subsidized tools under government schemes, adoption has never been more affordable. Think of AI not as a cost—but as an investment in efficiency.

### **The Fix:**

Start with pay-per-use platforms that bill monthly—no big upfront cost.

Apply for government incentives (MSME Digital Grants, Samarth Udyog funding).

Consider open-source tools or student-led collaborations for pilots.

## 4. “Our People Won't Trust It”

**The Challenge:** Many workers are skeptical of AI. They see it as threatening their jobs or undermining their judgment.

**The Reality:** AI is not an overlord; it is a co-pilot. AI doesn't replace people—it augments them. When introduced transparently, AI tools empower operators to make faster, better decisions.

### **The Fix:**

Involve shop-floor teams early in the pilot.

Showcase small wins (like faster fault detection or energy savings).

Use AI to support—not override—human decisions initially.

## 5. “We Tried Digital Tools Before—They Didn't Work”

**The Challenge:** Many foundries have had disappointing experiences with ERP or automation rollouts in the past. There's a fear of repeating the same mistakes.

**The Reality:** Those failures often stemmed from poor alignment, one-size-fits-all tools, or lack of training—not from the technology itself.

### **The Fix:**

Choose partners who understand foundry-specific workflows.

Start with narrow pilots, not broad transformations.

Co-develop the solution with users on the floor.

## 6. “We’re Too Small for AI”

**The Challenge:** Smaller foundries assume AI is only for large corporations with deep pockets and IT departments.

**The Reality:** Small foundries can move fast, learn quickly, and adapt smarter. MSMEs often see the fastest ROI from AI because they operate with tighter margins, higher scrap rates, and less automation<sup>20</sup>.

### The Fix:

- Focus on simple use cases (predictive maintenance, energy optimization).
- Use off-the-shelf AI tools with minimal integration needs.
- Collaborate with local industry clusters to pool resources and learnings.
- Small foundries can move fast, learn quickly, and adapt smarter.

Finally, yes, there are hurdles—but they’re not walls. With the right framing, partners, and mindset, AI can be your competitive edge, not a distant dream.

## Forging Forward: A Practical AI Playbook for Foundries

The journey to AI doesn’t require a PhD or a million-dollar IT budget. It requires clarity, consistency, and commitment. Here’s a step-by-step playbook tailored for Indian foundries—whether you're a family-run SME or a mid-sized auto component supplier.

### Step 1: Identify the Right Use Case

Start small. Don’t try to automate the entire foundry at once. Pick one high-impact problem:

- Are you struggling with excessive downtime?
- Are defect rates eating into your margins?
- Is energy your biggest cost center?

Choose a challenge with readily available data and a measurable KPI. This becomes your AI pilot.

### Step 2: Digitize Your Data

AI is only as good as the data it learns from. If you're still tracking operations in notebooks or Excel, begin with basic digitization:

- Install low-cost IoT sensors (for vibration, temperature, humidity, etc.)
- Use cloud-based tools to log operational data (machine run time, energy use, rejections)
- Ensure data is consistent, time-stamped, and clean

You don’t need 100% coverage. Even partial data streams can yield powerful insights.

### Step 3: Choose the Right Technology Partner

Avoid reinventing the wheel. You don’t need to build your own AI models from scratch.

Instead:

- Partner with AI startups specializing in manufacturing or foundry analytics
- Collaborate with IITs/NITs or Samarth Udyog Centers
- Explore pay-per-use AI platforms that offer dashboards, alerts, and optimization engines

Look for partners that understand foundry workflows—not just code.

#### **Step 4: Upskill Your Workforce**

Technology without people is just code. To unlock ROI, empower your team:

Offer short-term AI awareness workshops

Train shop-floor supervisors on reading dashboards and taking action

Nominate a digital champion in each department

Remember: Your furnace operator doesn't need to write Python. But they should know what an AI alert means and how to respond.

#### **Step 5: Launch a Pilot and Measure Everything**

Run a pilot project over 3–6 months. Define clear goals—like reducing downtime by 20% or energy cost by ₹5 lakhs.

Track performance weekly. Hold review meetings with both tech and ops teams. Capture before-after comparisons.

If it works, you have a blueprint. If it doesn't, you have a lesson.

#### **Step 6: Scale and Standardize**

Once your pilot succeeds:

Extend the solution to similar machines or production lines

Create SOPs (Standard Operating Procedures) for AI-based actions

Integrate AI outputs into routine shift planning, quality checks, and procurement decisions

Scale what works. Don't be afraid to fail fast and pivot.

#### **Step 7: Institutionalize a Culture of Data-Driven Decisions**

Over time, shift your foundry's mindset from reactive to proactive:

Use AI dashboards in daily morning meetings

Include data metrics in appraisal and incentive systems

Celebrate small wins from AI adoption to build buy-in

#### **Government and Ecosystem Support**

AI transformation doesn't have to be a lonely or expensive journey. The Indian government and broader innovation ecosystem are actively investing in smart manufacturing—especially for MSMEs. Foundries can tap into a host of initiatives offering financial aid, technical support, and ready-to-deploy technologies.

Samarth Udyog Bharat 4.0: Supports smart tech adoption in MSMEs

MSME Digital Schemes: Grants for sensors, software, and training

Academic Partnerships: IITs and NITs offer applied foundry research

AI Startups: Indian firms like Pragyam and DataKraft offer AI tools tailored for casting

#### **The Future: Foundries as Intelligent, Adaptive Powerhouses**

Imagine a foundry where decision-making doesn't depend on guesswork, production doesn't pause for breakdowns, and casting quality doesn't hinge on operator instinct. Instead, every process is monitored, predicted, and improved—automatically.

This is not a futuristic fantasy. This is the inevitable evolution of Indian manufacturing—one foundry at a time.

Here's a glimpse into what a truly intelligent, AI-powered foundry could look like:

### **1. Real-Time Operational Awareness**

Dashboards don't just report yesterday's performance—they tell you what's happening right now.

- Shop-floor supervisors track mold fill rates, cooling cycles, and defects in real time.
- AI-driven alerts notify operators of anomalies before they escalate.
- Visual dashboards display KPIs across energy, quality, uptime, and output—on tablets, control panels, or smart glasses.

Information is no longer siloed—it's live, contextual, and actionable.

### **2. Self-Learning, Self-Optimizing Processes**

Imagine your melting furnace learning from every batch poured.

- The system adjusts power input based on ambient temperature and load mass.
- AI models fine-tune mold pre-heating and pouring velocity to minimize porosity.
- Feedback loops allow machines to improve cycle after cycle—without human intervention.

Every cast teaches the machine. Every shift improves the process.

### **3. Predictive Everything**

The future foundry doesn't wait for problems—it sees them coming.

- Predictive maintenance prevents unplanned downtime and extends equipment life.
- Material demand forecasting ensures zero production halts due to stockouts.
- AI forecasts market demand so production planning can shift proactively.

AI turns foundries from reactive survivors into strategic planners.

### **4. Hyper-Personalized Decision Support - Virtual assistant for every role - from floor to boardroom**

Whether you're a CEO or a furnace technician, AI gives you the insights you need, when you need them.

- Purchase managers get real-time supplier scorecards and cost forecasts.
- Quality heads see visual heat maps of defect zones in castings.
- Finance teams get automated OEE, yield, and cost-per-part dashboards—daily.

### **5. Sustainable and Responsible Manufacturing**

AI helps foundries become greener—without compromising growth.

- Energy optimization reduces CO<sub>2</sub> emissions while saving lakhs in power bills.
- Smart material usage cuts waste and improves yield per input.
- Environmental compliance becomes automated and auditable.

**6. Digital Twins and Simulation-First Casting** - Mistakes become simulations. Innovation becomes a safe bet. What if you could simulate tomorrow's casting cycle before you fire up the furnace?

- AI-powered digital twins model the entire production process in a virtual environment.
- Engineers test new alloys, mold designs, or cycle parameters digitally—before touching metal.
- Fault scenarios are rehearsed, not reacted to.

### **7. AI-Enabled Collaboration Across the Supply Chain – Evolve from being vendors to collaborators**

The intelligent foundry doesn't work alone. It becomes the nerve center of a digital supply chain.

- Suppliers, transporters, and customers plug into shared dashboards.
- Material ETA, production status, and delivery alerts are all automated.
- Even customers can track casting progress via secure portals.

#### **Conclusion:** Pouring Intelligence into Iron

India has the raw materials, the manpower, and the manufacturing legacy. What it now needs is digital muscle. With AI, Indian foundries can:

- Leapfrog legacy competitors
- Build smart foundry clusters with shared data ecosystems
- Lead global markets in precision casting, not just volume production
- Attract younger talent with tech-driven career paths
- Cut emissions while increasing profits

The foundry of the future is data-rich, insight-led, resilient, and intelligent. And it's closer than you think. If you're a foundry owner or plant manager, remember: AI isn't just a tool—it's your next competitive advantage. The trick is - Start small. Prove ROI. Scale wisely. Tap into available ecosystem support.

Let's not just melt metal. Let's melt mindsets. Let's forge the future.

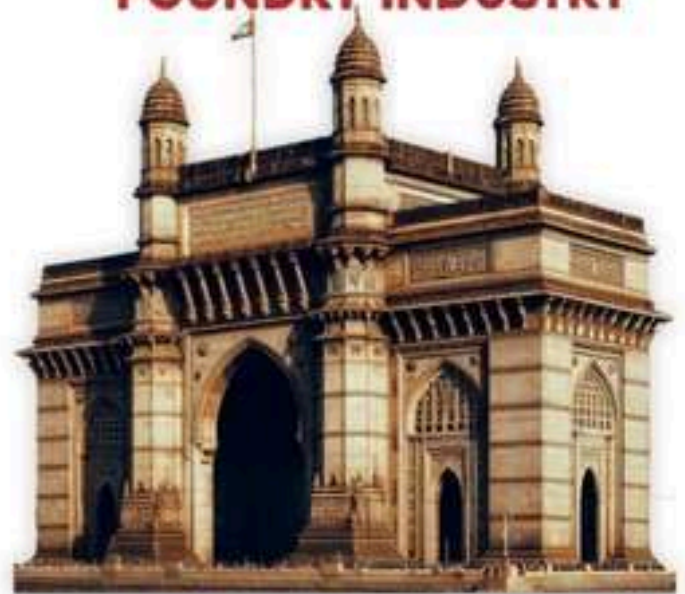
#### **Footnotes**

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# 74<sup>th</sup> INDIAN FOUNDRY CONGRESS & IFEX 2026

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## 74th Indian Foundry Congress

The Western Region of IIF proudly presents the 74th Indian Foundry Congress, alongside the prestigious IFEX & Cast India Expo 2026 exhibitions, from 12th to 14th February 2026 at Bombay Exhibition Centre, NESCO, Goregaon, Mumbai, India.

This international event will bring together global foundry leaders, innovators, technology providers and business stakeholders from across the world.

Exhibitors can showcase cutting-edge technologies and solutions, under the theme "Gateway of Global Foundry Industry." 74th IFC will be an ideal platform to Connect, Collaborate, and Explore new market opportunities.



## Mumbai - Financial Capital of India

A name like "Mumbai" evokes visions of soaring skylines, bustling markets, iconic trains, the Arabian Sea, and a city that never sleeps. Known as the **Financial Capital of India**, Mumbai is also home to a vibrant industrial legacy that continues to evolve. It is a melting pot of cultures, languages, and ambitions - and a symbol of resilience, growth, and innovation. Mumbai is the engine of India's economy. With top stock exchanges, global headquarters, and a thriving financial sector, it plays a pivotal role in national and international trade.

## Bombay Exhibition Centre (NESCO), Mumbai

Located in the heart of Mumbai, the Bombay Exhibition Centre (BEC) at NESCO, Goregaon, is one of India's leading exhibition and convention venues. Spread across a sprawling 60-acre campus, NESCO is equipped with world-class infrastructure and advanced facilities. Strategically situated near the Western Express Highway and Goregaon Railway Station, NESCO has easy connectivity to domestic and international airports, hotels, and transport systems. It offers the perfect setting for high-profile events like the Indian Foundry Congress. Its spacious and fully air-conditioned halls make it an ideal destination for international trade shows, industry events, and business gatherings. With ample parking, on-site services, and a professional support team, NESCO ensures a seamless experience for exhibitors and visitors alike.

74<sup>th</sup> IFC & IFEX 2026

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## Casting Buyer - Seller Meet

Buyer-Seller meetings have been planned to facilitate and serve as a platform for casting buyers & casting manufacturers to network and interact for mutual benefit.

Casting buyers from India and abroad are taking part in this grand event, which will pave the way for the development of new businesses for Indian foundries.

Direct interaction between buyer and potential seller would be mutually beneficial.

Registered casting manufacturers can participate in the Buyer-Seller Meet with a nominal additional fee of ₹6,000/- + 18% GST only.

Casting manufacturers need to submit their profile, along with a list of preferred casting buyers they would wish to meet at the Buyer-Seller program. A one-on-one meeting between seller and buyer could then be facilitated, subject to acceptance by the buyer.

**74<sup>th</sup> IFC  
B2B Meet**



### BUYERS INVITED FROM



For more information Contact

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Chairman - Buyer - Seller Meet Team,

Mbl: +91 98240 15380, Email: [mentor@ifcindia.net](mailto:mentor@ifcindia.net)



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## Key Sessions to Attend

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- Engage with the community
- Stay updated with industry advancements.
- Showcase your innovations in a focused and professional setting

- Technical paper presentations from leading experts in the field of Non Ferrous castings.
- Product Presentations showcasing the latest technologies and innovations.
- Engaging in a potential Defence sourcing and strategic partnership programme with Indian Defence stalwarts.
- Compact and impactful exhibition with latest showcasing of technology and castings.
- Sessions led by expert speakers sharing insights on smart, innovative and green die casting solutions.
- Dedicated Aluminium Pavilion of exhibition space for Non Ferrous castings and technology.
- Presence of 1,500 + Industry Professionals and Decision Makers.

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## TAKEAWAY

- Business opportunities with defence and railway sectors, corporates etc.
- Witness technological innovations at the IFEX exhibition.
- Meet experts from non - ferrous sector at B2B meets.



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## IFEX & Cast India Expo

IFEX 2026, being the largest foundry exhibition in India and spanning over 13,000+ sq. meters, will see participation from over 300+ exhibitors from India and overseas, along with more than 20,000+ business visitors. IFEX will highlight cutting-edge foundry technology, equipment, supplies, and services. India is rapidly becoming one of the most important casting sourcing destinations for buyers from all over the world. Cast India Expo will be held concurrently with IFEX.

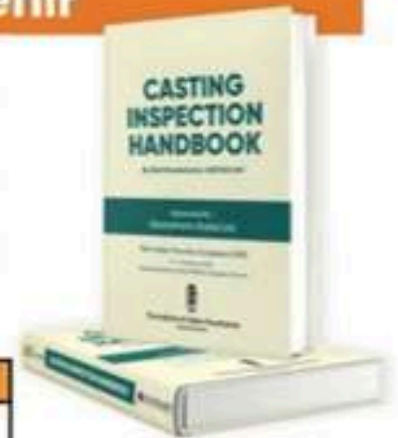


For Space Booking Contact:  
Rakesh Jha

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[www.ifexindia.com](http://www.ifexindia.com)

## Casting Inspection Handbook & Souvenir

The specially curated Castings Inspection Handbook, by Mr. G. Henderieckx, will be released. This handbook will serve as a practical reference for foundry professionals. It includes guidelines, best practices, and case studies on quality checks and inspection standards. This Handbook will be a permanent valuable volume on the desk of the foundrymen. Advertisement in this Handbook will enhance your brand visibility for years to come.



Sr No	Advt. Opportunities	Amount
1	Casting Inspection Handbook Sponsorship Back Cover – Advt., Girth - Logo, Page Facing Front Inside – Logo Acknowledgement <b>Booked</b>	₹ 10,00,000
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For advisement booking, please contact

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Bronze	1.5

For Update & Booking Write to

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## Registration

### Be a Part of India's Largest Premier Foundry Gathering!

Register now for the 74th Indian Foundry Congress. This year apart from regular 3-day registration, two new registration categories have been introduced:

### Premier Club (Exclusive for IIF Members)

Designed for at MDs, CEOs, and senior-level executives.

Premier Club Registration charges Rs. 15,000 + GST irrespective of any category.



### Privileges

- Special Status & Badge: Stand out with a unique badge for visibility and recognition.
- Unlimited Lounge Access: Network with industry leaders in an exclusive lounge.
- Prime Seating: Comfortable
- Exclusive Dining Areas: Dine in designated spaces for an elevated experience.
- Spouse of Premium Club delegates will be registered at normal rate ( D06 ).
- Premier club registration is separate from any category.

### FlexiPlan: One Day Registration **NEW**

- Option to register just for one day (12th or 13th February).
- Includes full hospitality, entertainment, etc., for that day.
- Kit bag provided as part of the package.
- Applicable for the day registered only.

### Regular Registration : 3 Days

- Regular registration for 3 days is available as usual.
- All registered delegates will have access to technical sessions, Exhibition Halls, Dining area, Entertainment ( Extra registration for Buyers Meet, Post Congress Tour ).



**74<sup>th</sup> IFC & IFEX 2026**

# 10 REASONS TO ATTEND

# 74<sup>th</sup> IFC & IFEX

## Business Beyond Boundries

# 1

Largest IFC & IFEX after 30 years at Mumbai  
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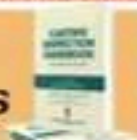
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## Union Environment Minister Chairs High-Level Review of Air Pollution Action Plans of Ghaziabad and Noida, as part of Series of upcoming Review Meetings for Delhi-NCR

Posted On: 15 DEC 2025 3:59PM by PIB Delhi

**Shri Bhupender Yadav calls for Strict On-Ground Implementation of Air Quality Control Action Plans, Directs Zero Tolerance for Non-Compliance**

**Emphasis given on Jan Bhagidari as Key to Winning the Fight Against Air Pollution in Delhi-NCR**

Union Minister for Environment, Forest and Climate Change, Shri Bhupender Yadav, today chaired a high-level meeting to undertake a detailed review of the Action Plans of Ghaziabad and Noida aimed at tackling air pollution in the two cities. This was the first review under a series of review meetings on City-specific action plans in NCR, which would culminate in a State-level review in the coming days. The review is being conducted in the prescribed format, as desired by the Minister during the earlier review meeting held on 03.12.2025, to assess progress and strengthen on-ground implementation [read more..](#)



## The Government remains committed to the growth of MSMEs

**More than 7.28 crore MSMEs registered on the online Udyam Registration Portal  
50 API integrations established with various organizations**

**Ease of Doing Business (EODB) promoted by digitization of programmes; setting up of single window clearances**

**2.86 crore women led MSMEs enrolled on Udyam registration**

Government has launched the online Udyam Registration Portal on 01.07.2020 and as on date more than 7.28 crore MSMEs have registered and become eligible for availing the benefits of the Government Schemes, including access to formal credit and Government procurement opportunities. Further, more than 50 API integrations have been established with various organizations and bodies. Under the portal various data points are being captured and the data derived is used in designing Policy Policy and improvement for efficacy [read more..](#)

## The Government implements Quality Control Orders (QCOs) with exemptions and relaxations for MSMEs to ensure no disruption of domestic production

**Financial incentives provided by BIS in annual minimum marking fee to support MSMEs**

**Banks advised by Reserve Bank of India to link loans to MSMEs to external benchmarks to improve monetary policy transmission**

**Posted On: 14 DEC 2025 12:20PM by PIB Delhi**

The Government of India through Bureau of Indian Standards (BIS), Department of Consumer Affairs, Ministry of Consumers Affairs, Food & Public Distribution implements, phase-wise, Quality Control Orders (QCOs) issued by the line Ministries with exemptions/relaxations for MSMEs, to ensure that Quality Control Orders (QCOs) do not disrupt domestic production. Some of the key relaxations and exemptions are as below:

- Additional time for Micro and Small Enterprises (MSEs): 6-month extension for micro enterprises and 3-month extension for small enterprises.
- Exemption for imports by domestic manufacturers for producing export-oriented products.
- Exemption for import of up to 200 units for Research & Development purposes.

Provision for clearance of legacy stock (manufactured or imported before implementation) within six months from the effective date [read more..](#)



## Aatmanirbharta means indigenous design & development of equipment, possessing the upgradation ability, and maintaining full control: Secretary (DP)

Secretary (Defence Production) Shri Sanjeev Kumar has stressed on the need to achieve self-reliance in defence manufacturing to deal with conventional and unconventional challenges of today. Delivering a lecture organised by the Comptroller and Auditor General of India on 'Aatmanirbhar Bharat in Defence Sector and Various Government Initiatives' in New Delhi on December 12, 2025, he defined self-reliance as not being dependent on others, designing & developing equipment indigenously, possessing the ability to upgrade, and maintaining full control over these products [read more..](#)

## INCENTIVES FOR ELECTRIC VEHICLES

Posted On: 09 DEC 2025 3:36PM by PIB Delhi

The year-on-year growth in Electric Vehicles (EV) penetration between FY 2020-2025 is as under:

Financial Year /Category	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Registered ICE Vehicles	244.20	173.79	179.86	211.49	229.60	242.84
Registered Electric Vehicles (EVs)	1.74	1.43	4.59	11.83	16.81	19.68
EV Penetration	0.71%	0.82%	2.49%	5.30%	6.82%	7.50%

Source :Vahan Portal

Further, the Ministry of Heavy Industries has launched the following schemes for strengthening the supply chain resilience for domestic manufacturing:

Production Linked Incentive Scheme for Automobile and Auto Component Industry (PLI-Auto): Government on 15.09.2021 approved PLI-Auto Scheme, for enhancing India's manufacturing capabilities for Advanced Automotive Technology (AAT) products with a budgetary outlay of ₹25,938 crore. The scheme proposes financial incentives to boost domestic manufacturing of AAT products with minimum 50% Domestic Value Addition (DVA) and attract investments in the automotive manufacturing value chain [read more..](#)

## The Government has implemented many schemes to promote technology upgradation and digitalisation of small enterprises across the country

**20 new Technology Centres (TCs) and 100 Extension Centres (ECs) to be established across the Country**

**65 Export Facilitation Centres (EFCs) established in the field organizations of Ministry of MSME**

In order to promote technology upgradation and digitalisation of small enterprises across the country, the Ministry of Micro, Small and Medium Enterprises (MSME) is implementing various schemes and initiatives, which inter-alia includes the MSE-Cluster Development Programme (Common Facility Centres), Tool Rooms / Technology Centres, the Micro and Small Enterprises (MSE) – Green Investment

Financing for Transformation (GIFT) Scheme, and the MSME Champions Scheme, these initiatives support modernization, skill and quality enhancement, advanced technology access, green technology adoption, and improved competitiveness of MSMEs. The Government is driving digitalisation through initiatives such as the Udyam Portal, MSME Champions Portal, Government e-Marketplace (GeM), Trade Receivables Discounting System (TReDS), MSME Mart, MSME SAMBANDH, and Online Dispute Resolution (ODR) portal, enabling digital registrations, online procurement, e-market access, receivable financing, and grievance redressal, thereby supporting MSMEs across the country [read more..](#)

## The Government has undertaken many initiatives to boost export competitiveness and provide support to MSMEs in the global value chain

**NIRYAT PRO TSAHAN focuses on trade finance facilitation for MSME exporters; NIRYAT DISHA provides non-financial support**

**International Cooperation Scheme and MSME Competitive (Lean) scheme to build capacity and enhance domestic and global competitiveness of MSMEs**

The recent trends in exports from MSME sectors reveal that contribution of the MSME sector in overall merchandise exports has increased from 45.74% in 2023-24 to 48.55 % in 2024-25 in USD value terms. In order to promote exports including from MSME sector, the Government has approved the Export Promotion Mission (EPM) as a comprehensive framework to strengthen the overall export ecosystem. Under EPM, support shall be provided through NIRYAT PRO TSAHAN, which focuses on trade finance facilitation for MSME exporters, and NIRYAT DISHA, which shall provide non-financial support including export-quality and compliance assistance, market-access interventions, logistics facilitation, and export ecosystem-building measures. Furthermore, the comprehensive GST rationalisation recently done by the government will strengthen MSMEs fortifying local supply chains in critical sectors like automobiles, textiles, food processing, logistics, and handicrafts. Lower GST rates have made raw materials and services more affordable, motivating small and medium enterprises and start-ups to scale up operations, invest in innovation, and compete both domestically and globally [read more..](#)

## MSMEs UNDER NAPS

The Government of India launched 'National Apprenticeship Promotion Scheme' (NAPS) in August, 2016 with the objective to promote apprenticeship training and to increase the engagement of apprentices. Since 2022-23, the scheme continues as NAPS-2 and implemented throughout the country, including Uttar Pradesh. The scheme promotes apprenticeship training in the country, by providing partial stipend support to the apprentices engaged under the Apprentice Act, 1961, undertaking capacity building of the apprenticeship ecosystem and providing advocacy assistance to the stakeholders. The partial stipend support limited to 25% of stipend paid, up to a maximum of Rs.1,500 per month, per apprentice during the training period is paid through Direct Benefit Transfer (DBT) to the bank account of apprentice. DBT was launched effective July 2023 [read more..](#)

## Mexico tariff hike to weigh on Indian auto, aluminium exports: JM Financial

India's exports to Mexico could face pressure with auto, auto components and aluminium likely to be the most affected, following its decision to raise import tariffs on goods from nations without a free trade agreement, according to analysts at JM Financial. Last week, Mexico approved a bill to raise tariffs on more than 1,400 imported goods from Asian countries, effective 1 January 2026, with China expected to be the most affected, according to Bloomberg. The revised tariffs will range between 5 per cent and 50 per cent, with most products facing duties of up to 35 per cent. The bill passed with 76 votes in favour, five against and 35 abstentions [read more..](#)

## SCALING UP OF INDIGENOUS MANUFACTURING UNDER ATMANIRBHAR BHARAT INITIATIVE

The production data in respect of the heavy engineering equipments and various sub sectors of the Capital Goods Sector has increased from Rs 2,87,233 crore in the year 2019-20 to Rs 5,69,900 crore in year 2024-25 as seen from the table below:

(Rs. In Crore)

S. No.	Sub-Sectors	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
1	Machine Tools	6152	6602	9307	11956	13571	14286
2	Dies, Moulds and Press Tools	13682	12294	13128	13915	15600	18400
3	Textile Machinery	5355	5093	11658	14033	14639	10461
4	Printing Machinery	12678	10058	13215	16107	23479	29716
5	Earthmoving and Mining Machinery	31020	29021	28674	37551	73000	80750
6	Plastic Processing Machinery	2350	3710	3850	3912	4310	4827
7	Food Processing Machinery	7547	10250	12210	13203	13863	15249
8	Process Plant Equipment	29250	21938	24000	23415	27396	31505
9	Heavy Engineering Equipments	179199	167706	219158	258832	302900	364706
	<b>TOTAL</b>	<b>287233</b>	<b>266672</b>	<b>335200</b>	<b>392924</b>	<b>488758</b>	<b>569900</b>

(Source: Industry Associations namely IMTMA, TAGMA, TMMA, IPAMA, iCEMA, PMAI, AFTPPI, PMAI & IEEMA)

The Scheme for "Enhancement of Competitiveness in the Indian Capital Goods Sector- Phase II" is a pan India demand driven Scheme under which projects are to be submitted by Project Implementing Organizations (PIOs) in association with Industry Partner(s) from any State/ UT of the country [read more..](#)

## Auto industry logs best Nov sales; PV dispatches surge 19%: SIAM

India's automobile industry recorded its strongest ever November performance across passenger vehicles (PVs), two-wheelers (2Ws) and three-wheelers (3Ws) on the backs of sustained festive demand and the government's goods and services tax (GST) 2.0 reforms, according to data released by the Society of Indian Automobile Manufacturers (SIAM). Analysts believe that the growth came from vehicles booked during the festive period in October but delivered in November. The overall underlying demand remained strong across all segments. Anurag Singh, advisor, Primus Partners, said: "November PV sales were very encouraging, recording an 18 per cent year-on-year (Y-o-Y) increase. While part of the growth came from vehicles booked during the festive period, the underlying demand remained strong across segments. Interestingly, sub-4 metre vehicles, which benefited from deeper GST cuts, grew with other vehicle categories at the same rate [read more..](#)

## Escorts Kubota tractors sales jump 18% in Nov'25

**Escorts Kubota Limited Agri Machinery Business in November 2025 sold 10,580 tractors registering a growth of 17.9% as against 8,974 tractors sold in November 2024.**

Domestic tractor sales in November 2025 were at 10,122 tractors registering a growth of 15.9% as against 8,730 tractors in November 2024. The tractor industry continued its upward trajectory in November, supported by government initiatives, reduced GST rates and subsidies on agricultural machinery, which have made tractors more affordable for farmers. Retail sales experienced a notable increase as the Kharif harvesting season came to a close and Rabi sowing advanced smoothly. Improved reservoir levels from last year have guaranteed ample water supply, setting a promising outlook for the upcoming season. Moving forward, we anticipate sustained growth for the remainder of the fiscal year [read more..](#)

## Mahindra & Mahindra tractors sales jump 32% in Nov'25

Mahindra & Mahindra sold 44,048 tractors in month of November 2025 compared to 33,378 tractors in November 2024, recording a growth of 32%. Total sales include domestic sales of 42,273 tractors (up 33% YoY) and exports of 1,775 tractors (up 9% YoY) during the month.

Commenting on the performance, Veejay Nakra, President - Farm Equipment Business, Mahindra & Mahindra said, We have sold 42273 tractors in the domestic market during November 2025, a growth of 33% over last year. This comes on the back of a strong growth of 27% for the festive period of September & October 2025. There is positive sentiment among farmers with record production this kharif season & increase in rabi sowing acreage. Government's progressive measure of GST rate reduction coupled with higher MSP is leading to positive cash flow for farmers & aiding tractor & farm implements demand. In the exports market, we have sold 1775 tractors, a growth of 9% over last year [read more..](#)

## Ministry of Steel eases rules for import of steel grades not covered under QCOs

In order to streamline the regulatory framework governing steel imports and to facilitate ease of doing business, the Ministry of Steel has undertaken a review of the existing import-related requirements. The Ministry has also reviewed the requirement introduced vide Circular dated 20th October 2023 for obtaining clarification or No Objection Certificate (NOC) from the Ministry of Steel for import of steel grades not covered under any QCO. Based on the recommendations of the High-Level Committee on Non-Financial Regulatory Reforms (HLC-NFRR), it has been decided that steel grades not covered by any Quality Control Order will no longer require clarification or NOC from the Ministry of Steel [read more..](#)



## MSME Ministry Launches Export Promotion Mission with Rs 25,060 Cr Outlay to Boost MSME Global Reach

Ministry of Micro, Small and Medium Enterprises (MSME) is implementing International Cooperation Scheme to provide financial assistance to facilitate visits/participation of MSMEs in international exhibitions/fairs/buyer-seller meets and for organizing international conferences/seminar/workshops in India. Under this scheme, financial support is also provided to the first-time Micro & Small exporters on Registration-cum-Membership Certification (RCMC) with Export Promotion Councils (EPCs), Export Insurance Premium and Testing & Quality Certification for exports. The scheme provides opportunities to MSMEs to continuously update themselves to meet the challenges emerging out of changes in technology, changes in demand, emergence of new market etc [read more..](#)

## CAG to conduct pan India audit on ease of doing business for MSMEs

The Comptroller and Auditor General of India (CAG) has launched an integrated audit across 32 states and Union Territories to assess the ease of doing business for the micro, small and medium enterprise (MSME) sector. The move shifts the approach from vertical, deep-dive audits to a horizontal, pan-Indian review. The consolidated report is slated for presentation in the winter session of Parliament in 2026. This "citizen-centric" audit is intended for "people who benefit from MSMEs, who use MSME services, and the MSME industry itself", Additional Deputy Comptroller and Auditor General Pravir Pandey said. The exercise comes in the context of flagship government initiatives, including Make in India, Atmanirbhar Bharat, and the MSME (Udyam) Registration portal. The audit will examine whether reforms on the ground are delivering efficient, timely, and more transparent services to small businesses, in line with the Viksit Bharat 2047 vision and the Business Reforms Action Plan 2024 [read more..](#)



# DO YOU KNOW ?

The International Cooperation scheme aims to build the capacity of MSMEs to enter the export market.

## These are the three ways to facilitation

- ◆ Their participation in international exhibitions/fairs.
- ◆ Organise international conferences/seminars/workshops in India on the theme related to MSME sectors.
- ◆ Reimbursement of various costs involved in the export of goods and services.

## Components of the International Cooperation Scheme

- ◆ Market Development Assistance
- ◆ Capacity Building of First-Time MSE Exporters

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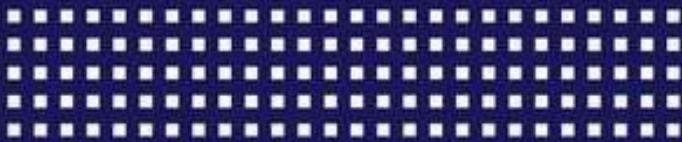


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Instant recognition Easy and Hassle-Free



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## Special Credit Linked Capital Subsidy Scheme (SCLCSS) under National SC-ST Hub

The objective is to promote new enterprises and support the existing enterprises in their expansion for enhanced participation in public procurement. The SCLCSS provides 25% subsidy to SC/ST MSEs on institutional finance up to Rs. 1 crore (i.e. a subsidy cap of Rs. 25 lakh) for procurement of Plant & Machinery/equipment or for technology upgradation, to ease access to latest technology.


### Scope of the scheme:

The scheme would cover SC/ST MSEs of manufacturing and service sectors.



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# Zero Effect, Zero Defect (ZED) Certification

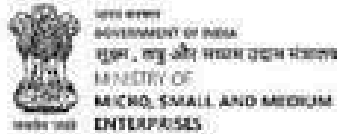
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# Procurement and Marketing Support Scheme

Organizing and facilitating participation in National and International Trade Fairs, Exhibitions, and MSME Expos

- Creating awareness on modern packaging techniques and innovative marketing strategies
- Providing guidance on import–export policies and procedures
- Promoting the use of the GeM portal for enhanced market access
- Hosting MSME Workshops/Seminars to disseminate the latest trends and opportunities
- Updating MSMEs on national and international trade developments



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# Procurement and Marketing Support (PMS) Scheme helps MSMEs:

- Expand their market reach domestically and globally
- Increase sales and competitiveness
- Improve product quality and visibility
- Access government procurement and e-commerce platforms



## Who Can Benefit?

Manufacturer and service sector MSEs must have a valid Udyam Registration (UR) Certificate.



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SI No.	Particulars	Location	prices	Remarks
1	Copper Armature Scrap, Cu 99%	Delhi	1,005,000	As on 19 Dec
2	Copper Armature Scrap,BME, Cu 98%	Mumbai	1,023,000	As on 19 Dec
3	Copper primary CC Wire rods (CCR),BME, 8 mm, Cu 99.99%	Mumbai	1,140,000	As on 19 Dec
4	Copper primary CC Wire rods (CCR), 8 mm, Cu 99.99%	Delhi	1,130,000	As on 19 Dec
5	Copper secondary CC Wire rods (CCR), 8 mm, Cu 99.99%	Delhi	1,070,000	As on 19 Dec
6	Ferro Manganese, HC 70%, 25-150 mm	Durgapur	70,900	As on 19 Dec
7	Ferro Manganese, HC 70%, 25-150 mm	Raipur	71,600	As on 19 Dec
8	Ferro Manganese,MC (Mn 70% min), 10-150mm	Durgapur	93,500	As on 18 Dec
9	Ferro Molybdenum (FeMo60%), Mo 60%, 10-100mm	Nagpur	2,662,000	As on 19 Dec
10	Ferro Silicon, FeSi 70%,25-100 mm	Guwahati	97,000	As on 19 Dec
11	GP 120 GSM, 0.6 mm	Mumbai	62,300	As on 18 Dec
12	GP 120 GSM, 0.6 mm	Chennai	66,000	As on 18 Dec
13	GP 120 GSM, 0.6 mm	Delhi	60,300	As on 18 Dec
14	GP 120 GSM, 0.6 mm	Hyderabad	64,000	As on 18 Dec
15	GP 120 GSM, 0.8 mm	Mumbai	60,800	As on 18 Dec
16	GP 120 GSM, 0.8-1.6 mm	Chennai	64,500	As on 18 Dec
17	GP 120 GSM, 0.7 mm	Delhi	58,800	As on 18 Dec
18	GP 120 GSM, 0.8 mm	Hyderabad	62,500	As on 18 Dec
19	HC Ferro Chrome (Low Silicon), HC 60%, Si -2%, 10-150 mm	Jajpur	112,000	As on 18 Dec
20	HC Ferro Chrome (Medium Silicon), HC 60%, Si-4%, 10-150 mm	Jajpur	107,400	As on 19 Dec
21	Melting Scrap ,CR Bushelling (Loose)	Ludhiana	35,600	As on 19 Dec
22	Melting Scrap ,CR Bushelling (Loose)	Mandi Gobindgarh	36,000	As on 19 Dec
23	Melting Scrap ,CR Bushelling (Loose)	Jalna	32,500	As on 19 Dec
24	Melting Scrap ,CR Bushelling (Bundle)	Chennai	31,500	As on 19 Dec
25	Melting Scrap ,CR Bushelling (Bundle)	Ahmedabad	33,600	As on 19 Dec
26	Melting Scrap, HMS (80:20)	Mumbai	30,900	As on 19 Dec
27	Melting Scrap, HMS (80:20)	Jalna	29,500	As on 19 Dec
28	Melting Scrap, HMS (80:20)	Alang	30,900	As on 19 Dec
29	Melting Scrap, HMS (80:20)	Raipur	31,500	As on 19 Dec
30	Melting Scrap, HMS (80:20)	Durgapur	31,100	As on 19 Dec
31	Melting Scrap, HMS (80:20)	Mandi Gobindgarh	32,200	As on 19 Dec
32	Nickel Cathode, BME, Ni 99.99%	Mumbai	1,352,000	As on 19 Dec
33	Pig Iron, Foundary Grade	Ludhiana	37,500	As on 20 Dec
34	Pig Iron, Foundary Grade	AHMEDABAD	40,500	As on 20 Dec
35	Pig Iron, Foundary Grade	Delhi	37,600	As on 20 Dec
36	Pig Iron, Foundary Grade	Durgapur	37,000	As on 20 Dec
37	Pig Iron, Foundary Grade	Kolhapur	41,000	As on 20 Dec
38	Pig Iron, Steel Grade	Durgapur	32,350	As on 19 Dec
39	Pig Iron, Steel Grade	Raipur	33,000	As on 19 Dec
40	Pig Iron, Steel Grade	Hyderabad	33,000	As on 19 Dec
41	Pig Iron, Steel Grade	Ludhiana	35,250	As on 19 Dec
42	Pig Iron, Steel Grade	Raigarh	33,550	As on 19 Dec
43	Tin Pure Ingot, BME, Sn 99.99%	Mumbai	4,001,000	As on 19 Dec



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