



INDO-GERMAN

BUSINESS

MAGAZINE

THE BUSINESS MAGAZINE OF THE INDO-GERMAN CHAMBER OF COMMERCE



PRIMA
INFRACORP

Transforming

INDUSTRIAL LANDSCAPES

with Precision and Innovation

PRIMA INFRACORP is an industrial construction Company with over 15 years of experience and 2.5 million sq. ft. of developed spaces, we specialize in creating bespoke, high-quality infrastructure tailored to your needs.

We

"WORK ON ALL MODELS"

CHOOSE WHAT SUITS YOU

TURN KEY

LEASE

LEASE & TRANSFER

Offering

"ONE STOP SOLUTION"

FOR YOUR UPCOMING PROJECT

**LAND
SOURCING**

**REGULATORY
APPROVALS**

**DESIGNING &
PLANNING**

**CIVIL &
MEP WORKS**

**PRE ENGINEERED
BUILDINGS**



www.primainfracorp.com

business@primainfracorp.com

+91-86682 58400

PRIMA INFRACORP PRIVATE LIMITED

Your Trusted **"Industrial Developer"**

Survey No. 57-62, Village Kuruli, Pune Nashik Highway,
Tal. Khed, Dist. Pune, Maharashtra, India. 410 501

Partner for logistics solutions

Our global network ensures that we always respond to any logistics challenge by taking advantage of our air, ocean, land freight and supply chain services.

DB Schenker Advantage:

- Industry Solutions for Automotive, Technology, Healthcare / Pharma, Consumer/retail, e-commerce, Industrial, Aerospace & Defense, Semicon and others
- End-to-end Integrated Supply Chain Services through Air & Ocean Freight, Land Transportation, Fairs & Exhibitions, Global Projects and Contract Logistics etc.
- Value-added Services

For any query, please contact us at marketing.india@dbschenker.com
Internet presence at www.dbschenker.com/in-en



THE WORLD IS OUR PLAYGROUND

BHARAT FORGE



A globally leading technology and innovation-led engineering company

Bharat Forge Ltd is a global diversified company providing advanced solutions of high-performance, innovative, safety, and critical components to various sectors including Automotive, Railways, Defence, Construction and mining, Aerospace, Marine, and Oil and gas through our unwavering commitment to R&D and innovation. BFL today has the largest repository of metallurgical knowledge in the region and offers full-service supply capability to its geographically dispersed marquee customers from concept to product design, engineering, manufacturing, testing, and validation. This transformation took us from a single-product, single-location enterprise to a multi-product conglomerate serving various sectors.

Largest Exporter of
auto components from India

60+ Years of
manufacturing
experience

30+ Years of
servicing
export markets

7K+ Employees
working
worldwide

Follow us on      Visit us at www.bharatforge.com



Automotive
sector



Resources
oil, gas, mining



Rail and
Marine



Defense and
aerospace



Power and
energy



General
engineering

IGE



IS NOW



IGBM



Experience power-packed performance with Volkswagen

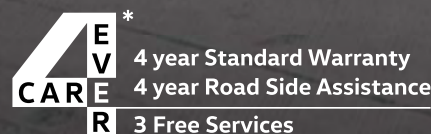
Avail exciting benefits on Taigun and Virtus



7-speed DSG and 6-speed manual transmission | Acclaimed 1.0 TSI and 1.5 TSI engine options | Segment-first twin front electric seats
Exceptional sound with in-built amplifier and sub-woofer
Superior build quality with 4-year warranty | 6 Airbags as standard

Range starts at an offer price of **₹10.89 Lakh***

Book Now



Call 1800 102 0909

volkswagen.co.in



*Terms and conditions apply. Images are for representation purpose.

Technology to Transform the Everyday for a **Sustainable Tomorrow**

Innovative solutions that empower infrastructure, industries, and energy systems to drive sustainability and efficiency. From advanced automation and energy-efficient technologies to smart and resilient energy systems, our offerings demonstrate how digitalization and decarbonization can shape a greener future. Explore how Siemens is transforming industries and infrastructure, enabling the energy transition for a sustainable tomorrow.

Together, let's create impactful solutions for a better world.

For more information call us at **1800 209 1800**

siemens.co.in/sustainability



Scan to know more.



With Germany's robust technological foundation and India's dynamic market potential, strategic partnerships are key to future growth.

STEFAN HALUSA
Director General
Indo-German Chamber of Commerce

Strengthening Indo-German Business Amid Global Shifts

Dear Members and Friends of IGCC,

The new year has started as busy as the old year ended. In the first two months major trade fairs took place in Delhi, Bharat Mobility and Elecrama, and in Bangalore, Imtex and AeroIndia. All of these had significant German participation, supported by IGCC.

Visiting most of these fairs, I was once again impressed by the level of technology and innovation showcased by exhibitors – ranging from MNCs to MSMEs – demonstrating Germany's strong technological base. Amid discussions about the German economy's weakness, its technological strength and innovation capacity often go overlooked.

A recent Nasscom-Deloitte study on Germany's Engineering, Research & Development operating model reinforces this. It found that Germany's R&D spending over the past five years has been between 2.2% and 2.7% of GDP—almost double the European and global averages—accounting for 36.3% of Europe's total R&D expenditure in 2024 (IRI data).

Yet, despite this industrial and technological strength, the German economy faces challenges. An aging workforce, a shortage of skilled labour, high energy prices, and bureaucracy have led to two consecutive years of economic downturns, compounded by geopolitical factors. The new German government, following the February 23 federal elections, will need a strong mandate to revitalize the economy by ensuring the right political and regulatory framework.

India has recently shown a decline in economic growth rates, still holding the position of the fastest-growing major economy in the world. Yet, there were concerns about not-so-dynamic private investments and private consumption.

The Federal Budget announced at the beginning of February addresses those concerns. In a major step, the tax-free income level was pushed from 7 lakh INR to 12 lakh INR. This shall free up approximately 10 lakh CR INR for private consumption, and it shall incentivize corporates to invest in additional capacity to be able to cater to the additional demand. Public investment remains at a high level. The fiscal deficit shall be reduced to 4.4% of GDP. A balanced approach between fiscal stimuli and discipline. Especially, keeping in mind increasing geopolitical uncertainties, and the necessity to be able to act on new developments.

The trade fairs mentioned above attracted substantial international attention and participation. This highlights the growing importance of the domestic market and provides a unique opportunity to discuss and commence international collaborations. The combination of Germany's strong technological base across numerous sectors, and India's ability to add on to this the strength of developing digital, digitally- or AI-enabled solutions are a perfect match. We hope that by building bridges between companies; and by supporting companies to participate in trade fairs or delegation visits, we can contribute to successful collaborations.

IGCC will continue to strengthen Indo-German business and industry relations by providing a platform for exchange – where companies, associations, and stakeholders can meet, interact, ideate, and innovate.

In an environment of increasing competition and global challenges, both economies and societies stand to benefit from deeper Indo-German ties.



TAJ

TIMELESS WEDDINGS

FOR THE HOPELESSLY ROMANTIC

Script your Timeless Wedding with Taj

+91 22 6665 1316 | timelessweddings@ihcltata.com | www.tajhotels.com/en.in/wedding

IGBM 01, 2025

CONTENTS
INDO-GERMAN BUSINESS MAGAZINE

7



COVER STORY

■ 20-35

The Automotive Industry: The Present & the Future of India & Germany

EDITORIAL 5

- Strengthening Indo-German Business Amid Global Shifts

PARTNER'S DESK 9-11

- The Role of Hamburg in India's Renewable Energy Ambitions

IGTC NEWS 13-15

- Shaping the Future: Industry Tours and Cultural Learning Between India and Germany

ADVERTORIALS 27-37

MEMBERS' CONTRIBUTION 36-51

- Herrenknecht India Supplying Largest Locally Manufactured TBM
- Bridging the Leadership Gap for German Companies in India
- Redefining the Global Capability Center Space
- India-Germany Trade Potential
- Navigating the Future: A Bold Budget for 2025

COMPANY OVERVIEW 52-54

CHAMBER'S NEWS 55-81

- Pioneering Partnerships at Advantage Assam 2.0
- Rising Rajasthan Global Investment Summit 2024
- Business Roundtable on Green Hydrogen: The Smarter E India
- WiGH Expanded to South Asia
- CFO Meet 2025
- Union Budget 2025 - Major Impacts and Opportunities
- CII Mystic South, Global Linkages Summit 2025, Chennai
- Celebrating Collaboration: Germany Partner Country at BGBS
- Baden-Württemberg Strengthens Business Ties with India

SUSTAINMARKETS 83-84

- Carbon Credits Landscape 2025

BUSINESS OPPORTUNITIES 85-86

EDAG 16-19

- EDAG presents Smart Industry Summit India (4th & 5th June) and booth at Hannover Messe 2025 (31st March - 4th April)



15



65



77

Follow us on

Indo-German Chamber of Commerce IndoGermanChamberofCommerce IndoGermanChamberofCommerce indogermancc IndoGerman

IGBM 01, 2025

The Role of Hamburg in India's Renewable Energy Ambitions



As the world races towards a clean energy future, India has emerged as a key player in the global transition to renewables. With ambitious targets—500 GW of non-fossil fuel capacity by 2030 and achieving net-zero emissions by 2070—India is actively expanding its renewable energy infrastructure, particularly in offshore wind and green hydrogen production.

Germany, a global leader in renewable energy technology, has been a crucial partner in India's clean energy journey. At the heart of this cooperation lies Hamburg, a city that has positioned itself as an



Hamburg | Representation
Mumbai

innovation hub for green energy. With its world-class expertise in wind energy, hydrogen production, and sustainable port infrastructure, Hamburg is playing a vital role in shaping India's renewable future.

HAMBURG: A POWERHOUSE IN OFFSHORE WIND & GREEN HYDROGEN

Hamburg has positioned itself

as a European leader in offshore wind development and green hydrogen production. The city hosts some of the biggest names in the sector, including Siemens Gamesa, Nordex, and Vestas, as well as major hydrogen players like H2 Global and Hamburg Hydrogen Network. These companies are at the forefront of building efficient, large-scale renewable energy solutions—solutions that are highly relevant for India's energy transformation.

What makes Hamburg particularly valuable as a partner for India is its integrated approach to offshore wind and green hydrogen. With large-scale wind

DISCOVER THE LEGACY OF EXQUISITE FRAGRANCES

Inspired by generations of dedication and mastery, our fragrances capture the essence of tradition and timeless elegance. Each note, carefully crafted and blended, reflects the rich heritage of the family lineage, resonating with sophistication and purity.

Ultra International Limited
Fragrances, Flavours & Essential Oils



Inspired



Sourced



Bottled





Admissions Open AY 2025 - 26

Pre-Nursery to Grade 11
Offering IGCSE & IBDP curriculum



Embark on a Journey of Exploration and Growth

Realise Your Potential: Academic Excellence and Holistic Growth at Wellington College International Pune

At Wellington College International Pune we believe that education extends beyond academic excellence to the nurturing of each student in their journey. Starting August 2025, we are thrilled to announce the launch of the IBDP, with admissions open from Pre- Nursery to Grade 11 (Year 12). We invite you to join our vibrant community, dedicated to recognizing, valuing and celebrating the unique potential.

Drawing from the rich legacy of Wellington College in the UK, we seamlessly blend time-honoured educational traditions with innovative learning approaches. Our curriculum, designed to both challenge and inspire, is aimed at kindling intellectual curiosity and fostering a passion for lifelong learning

Your Journey Begins Here!

We invite you to connect with our Admissions team to sign up for the campus tour, meet our world-class staff and experience first-hand the outstanding facilities and vibrant spirit of Wellington College International Pune. Discover a place where your potential is limitless and the journey to excellence begins.

**Pioneering education
to serve and help shape
a better world.**



energy projects driving renewable power generation, the city is also developing the necessary hydrogen infrastructure to store and transport surplus energy, making the two sectors complementary rather than separate. For India, which aims to build both offshore wind farms and a green hydrogen economy, Hamburg provides not just technological expertise but a functional model of how these industries can work together to accelerate energy transition.

OFFSHORE WIND: FROM HAMBURG TO INDIA:

India has enormous potential for offshore wind energy, particularly along the coasts of Gujarat and Tamil Nadu, and has set a goal of 30 GW by 2030. However, offshore wind development is complex, requiring expertise in marine infrastructure, grid integration, and supply chain logistics—all areas where Hamburg excels. Hamburg-based organisations such as the German Offshore Wind Initiative (GOI) and WindEnergy Hamburg, one of the world's leading trade fairs, offer a platform for Indian stakeholders to connect with German experts. Through these networks, Hamburg Representation Mumbai plays a critical role in facilitating knowledge exchange, bringing together Indian policymakers, energy firms, and investors with German technology providers.

At the Indo-German Energy Forum (IGEF) and bilateral trade dialogues, Hamburg Representation Mumbai acts as a connector, ensuring that Indian partners can access Hamburg's industry

What makes Hamburg particularly valuable as a partner for India is its integrated approach to offshore wind and green hydrogen."

leaders, participate in technology collaborations, and navigate potential investment opportunities in offshore wind projects.

As offshore wind farms expand, a key challenge is ensuring consistent energy supply, particularly during periods of low wind activity. This is where green hydrogen enters the picture—by converting surplus wind power into hydrogen, energy can be stored, transported, and used across industries, creating a flexible and resilient renewable energy system.

GREEN HYDROGEN: SCALING UP INDO-GERMAN COLLABORATION:

With the launch of the National Green Hydrogen Mission, India aims to produce 5 million metric tons of green hydrogen annually by 2030. However, achieving this requires strong expertise in hydrogen production, storage, and distribution—an area where Hamburg is a front-runner.

The Hamburg Hydrogen Cluster, one of the largest hydrogen networks in Europe, is developing large-scale electrolysis projects, hydrogen-powered transport

systems, and port-based hydrogen hubs. For India, which is looking to export green hydrogen globally, Hamburg's Hydrogen Import Strategy offers a roadmap for creating efficient supply chains and trade corridors.

By participating in forums like Hydrogen Dialogue Nuremberg and H2Expo & Conference (Hamburg), Hamburg Representation Mumbai actively supports India's engagement with Hamburg's hydrogen ecosystem, helping Indian companies explore investment, R&D partnerships, and infrastructure planning.

HAMBURG REPRESENTATION MUMBAI: BRIDGING THE GAP

India's renewable energy transition requires global expertise, strategic partnerships, and investment opportunities—and this is where Hamburg Representation Mumbai plays a key role. We connect Indian businesses with Hamburg's industry leaders, facilitate trade fairs, delegation visits, and policy dialogues, and support market entry into offshore wind and hydrogen sectors. By strengthening Indo-German cooperation in renewables, we help drive innovation, investment, and sustainable energy solutions, making Hamburg a crucial partner in India's clean energy future.

For more information, reach out to us at Hamburg Representation Mumbai's Chief Representative, **Sameeha Pradeep Sule** at info@hamburgmumbai.com — your bridge to Germany's clean energy innovations.



**PREVENTION
IS BETTER THAN
CURE**



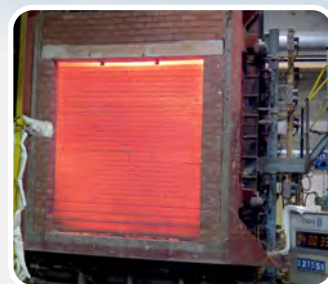
AFTER 1 hr FIRE TESTING



AFTER 2 hrs FIRE TESTING



AFTER 3 hrs FIRE TESTING



AFTER 4 hrs FIRE TESTING

FIRE RATED ROLLING SHUTTERS

- Remains open during working hours and close automatically during a fire break out.
- All parts are so designed as to avoid the spread of fire by isolating the fire prone area from other premises.
- Performance as per other specifications of European Standards/FM Global/UL.
- Fire withstanding capacity is 2 hrs & 4 hrs.
- Include additional safety and operational devices such as smoke detectors, flashing lights, buzzer or fire alarms and can be integrated with Building Management Systems (BMS).
- All components of our shutters are made from High Grade Steel and with high safety standards.



Shaping the Future: Industry Tours and Cultural Learning Between India and Germany

In an exciting collaboration between the Indo-German Training Centre (IGTC) and the Baden-Württemberg Cooperative State University Karlsruhe, a remarkable 10-day event took place that seamlessly blended industry exploration and cultural exchange. This initiative aimed at fostering international understanding and learning through visits to prominent companies including German companies across India.

The event was designed for students from the Baden-Württemberg Cooperative State University Karlsruhe, along with IGTC student volunteers, to explore first-hand the intricacies of various industries. Over the course of the programme, the students were given the opportunity to visit nine diverse companies spanning



key sectors such as supply chain, jewellery, manufacturing, and the automotive industry. These visits provided them with invaluable exposure to the operational frameworks of both Indian and German businesses.

One of the most profound aspects of this initiative was the opportunity

to analyse the differences between the German and Indian industrial landscapes. The students delved into the unique characteristics, challenges, and innovations present in each country's industries. From the cutting-edge automotive technologies of Germany to the traditional craftsmanship found in



FOAMplus® IS HIGH-PRECISION PACKAGING, LIGHT AS A FEATHER.



**FAST AND
PRECISE**

Storopack's FOAMplus® foam packaging is a high-quality protective packaging solution that adapts to the contours of the product and protects your goods against possible transit damage. Whether they're heavy, fragile or awkward shapes made from expanded polyurethane, the high-quality packaging foam is resistant, robust and thanks to it being light weight, reduces transport costs.

More about FOAMplus® by Storopack: www.storopack.in/foamplus

**Storopack India
Private Limited**

412308 Pune, India

T +91 76779 76779
packaging.india@storopack.com



Indian jewellery manufacturing, each visit offered a fresh perspective on the strengths and opportunities within both nations.

Beyond the industrial visits, the students also experienced a rich cultural exchange, where they had the chance to showcase and appreciate the beauty of Indian cultural heritage. The German students gained an appreciation for India's vibrant traditions, festivals, and way of life, while Indian students learned about the efficiency, precision, and order that define

One of the most profound aspects of this initiative was the opportunity to analyse the differences between the German and Indian industrial landscapes."

German culture. This cross-cultural exposure not only broadened their world views but also helped them understand how cultural nuances can influence business practices.

The participants, many of whom are future leaders in their respective fields, were tasked with reflecting on their experiences and envisioning ways to leverage the strengths of both countries for a better future. Throughout their discussions, they came up with brilliant ideas aimed at fostering sustainable growth, enhancing the capabilities of both nations, and establishing a collaborative framework that could benefit the global economy.

The event highlighted the importance of building bridges between cultures and industries, and underscored the significant role that international cooperation will play in shaping the future. By learning from each other's successes and challenges, the students recognised that there is immense potential in working together to overcome global challenges, drive innovation, and pave the way for a successful, interconnected future.

CONNECTED. SMART. EFFICIENT.

The Industrial Metaverse is redefining industry through digital twins, AI, and seamless connectivity.



SMART
FACTORY

SMART
PRODUCT

SMART
ECOSYSTEM

INDUSTRIAL
METAVERSE

SMART
PEOPLE



Digital Transformation THE INDUSTRIAL METAVERSE AS THE FUTURE OF SMART MANUFACTURING

The digital transformation of industries is rapidly paving the way for the Industrial Metaverse – a seamless fusion of the physical and virtual worlds. By integrating digital twins, artificial intelligence, IoT, and cloud computing, companies are fundamentally changing the way they design products, control manufacturing processes, and manage supply chains.

However the Industrial Metaverse is more than just a technology trend – it marks a strategic shift toward a fully networked industry. The digital thread runs through all levels of production, ensuring an uninterrupted flow of real-time data and seamless traceability throughout the entire product lifecycle. As a result, companies can make more informed decisions, design more efficient processes, and improve value creation.

Four key elements are driving this development: Smart Products, Smart Factories, Smart People and Smart Ecosystems. They are the foundation of the networked industry of the future.



SAVE THE DATE

SMART INDUSTRY SUMMIT

JUNE 4th AND 5th, 2025 IN NEW DELHI

REGISTER NOW!

Smart Product: Innovation Through Integration

Today's products are no longer static, but can be optimized, extended and adapted to changing market needs throughout their entire lifecycle. Smart products combine mechatronic architectures with scalable hardware platforms and upgradeable software. This flexibility not only enables manufacturers to develop products more efficiently, but also to optimize them after they have been introduced to the market.

At the heart of this evolution is the digital twin. It enables companies to monitor products in real time, perform virtual testing, and implement predictive maintenance. By analyzing usage data, companies can continuously optimize product design, streamline development processes, and shorten innovation cycles.

At the same time, there is a growing focus on sustainability. Resource-conserving designs and energy-efficient technologies are increasingly important. To remain competitive in the long term, companies must combine environmental responsibility with high functionality and attractive design. Here, too, modern technologies provide comprehensive support.

Smart Factory: Efficiency Through Digitalization

As smart products open up new possibilities in design, industrial production is also undergoing fundamental changes. Smart Factories link digital and physical production processes in a intelligent networks. Automation, AI-supported process optimization, and adaptive manufacturing systems increase efficiency and flexibility.

Digital twins make it possible to simulate production processes in the planning phase, identify bottlenecks early on, and iteratively improve processes - without the need for costly physical testing. In addition, intelligent control systems and predictive maintenance ensure optimal machine utilization and minimize downtime.

Sensor technology and AI-supported analytics can help to accurately schedule maintenance, reduce downtime, and use resources more efficiently. Smart Factories create conditions for data-driven production that can dynamically adapt to market changes.



HANNOVER FAIR 2025 - METAVERSE LIVE EXPERIENCE

The Industrial Metaverse as a Strategic Imperative

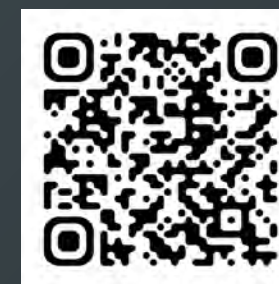
The Industrial Metaverse is not a distant vision of the future, but an evolution that is already driving profound change today. Companies that strategically leverage digital twins, AI-supported automation, and connected platforms not only optimize their production processes, but also secure long-term competitive advantage.

The integration of Smart Products, Smart Factories, Smart People and Smart Ecosystems is creating a new industrial reality where innovation, efficiency and sustainability are no longer mutually exclusive, but rather mutually reinforcing. Companies that actively embrace this transformation will be more resilient to future challenges – and unlock new opportunities for growth.

The Industrial Metaverse is revolutionizing your industry

Digital twins, AI and networking increase efficiency, flexibility and sustainability - smart products, smart factories, smart people and smart ecosystems are driving this change.

Find out how companies can benefit from this at the Hannover Fair in Germany from March 31th to April 4th.



GET YOUR FREE TICKETS NOW!

Smart People: Rethinking Human-Machine Interaction

Despite increasing automation, people remain indispensable in the industrial value chain. Smart People represents a new form of human-machine collaboration in which workers are supported by digital tools in a targeted manner.

Virtual and augmented reality are revolutionizing training, maintenance and production processes. Immersive training programs make it possible to learn machine controls or simulate complex processes without interrupting live operations. AI-supported assistance systems help analyze production data in real time and make informed decisions. Workers can identify process deviations early and adjust workflows flexibly.

These digital technologies increase efficiency, productivity and occupational safety. Wearables, intelligent assistance systems, and predictive hazard detection reduce risk and support a safe work environment.

Smart Ecosystem: Networking Across Company Boundaries

Digital transformation requires extensive networking across the entire value chain. Smart ecosystems enable seamless digital integration between suppliers, manufacturing plants, logistics partners, and customers.

Cloud-based platforms and AI-supported predictive models help companies analyze their supply chains in real time, anticipate bottlenecks, and use resources more efficiently. The result is an agile network that responds flexibly to fluctuations in demand while minimizing waste.

This connectivity contributes significantly to a more sustainable industry. By intelligently linking production and logistics processes, companies can selectively reuse materials, optimize transportation routes, and reduce emissions. Smart Ecosystems are the backbone of an economically and environmentally sustainable industry.





THE AUTOMOTIVE INDUSTRY

THE PRESENT & THE FUTURE OF INDIA & GERMANY

In the last century, the car culture has changed the world. This is not only in terms of the economy globally but also how we as people live and interact with the world. The automotive industry accounts for 12 million jobs in Europe and 8 million in the US and 5 million more in Japan. Globally, the automotive industry is doing much better than it did five years ago. Emerging markets are expected to bring in new profits rather than established markets such as the US, Europe, Japan, and South Korea.

According to KPMG Report, executives have a more mature view of the EV transition. Three years ago, when they asked how much share of annual sales EVs might capture in 2030, the answers ranged from 20 percent to 80 percent. Now, the mean estimates for penetration rose in the latest survey.

Automotive Industry in Germany

Germany is known the world over for its remarkable automotive industry and excellence in engineering. Germany is Europe's leading production and sales market as German cars the world over embody highly cherished values of innovation, reliability, safety, and design. World-class R&D infrastructure, complete industry value chain integration, and a highly qualified workforce create an internationally peerless automotive environment. The German automotive industry is one of the most innovative in the world - and thus in many respects the most important driver of the German economy.

The automobile industry in Germany generated over EUR 506 billion in total sales in 2022, compared to around 411 billion euros the year before.

CHANGING MOBILITY MARKET FOR GERMANY

The global auto industry is in a period of radical transformation due to e-mobility and connected and automated driving technology developments. More than 135 years after inventing the automobile, Germany remains the world's automotive innovation hub – leading the way forward to a new mobility era.

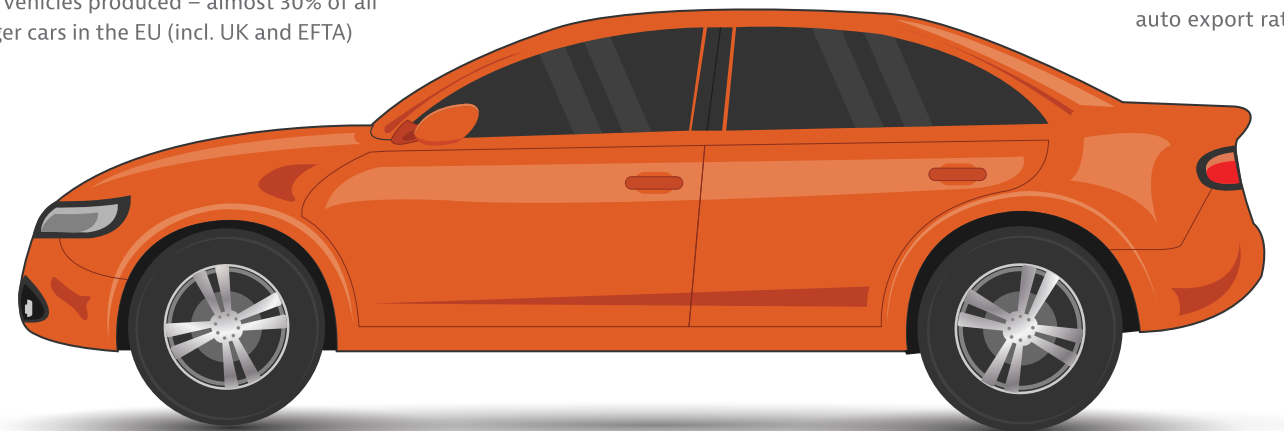
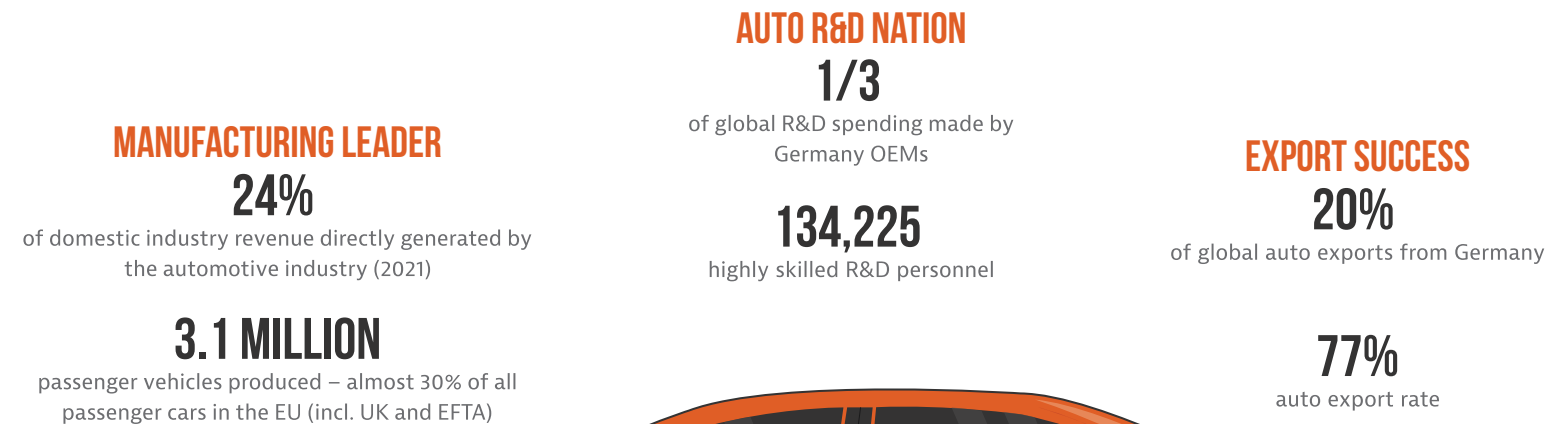
THE PUSH TO NEWER TECHNOLOGY

The German automotive investment in research and development remains strong as manufacturers maintain their competitiveness with the "Made in Germany" initiative. In **2017** alone, German automotive companies spent almost **EUR 22 billion** on internal R&D projects; more than any other domestic manufacturing sector.

The German automotive engineers are always pushing towards newer and more efficient technology. Better internal combustion engines, alternative drive technologies such as electric, hybrid, fuel cell cars and adapting lightweight materials and electronics are just a few of the innovations in automotive tech.

The demand for a connected world and more specifically

GERMANY'S AUTOMOTIVE INDUSTRY IN NUMBERS



Source: VDA, Stifterverband, Destatis 2022



connected cars has increased significantly in the premium segment. A plethora of newer technology such as innovative safety, comfort and information services, smart technologies are changing the landscape.

Germany is also spearheading supply chain transformation in the automotive industry. The classic OEM business model with turnover generated from new vehicle sales is undergoing a paradigm shift as a response to value creation returns is falling. No longer are sales made on just better features in a congested international market. Therefore, the role of suppliers to

strengthen the supply chains is increasing in terms of how much value they can add to the product, as per the PWC 16th Annual Global CEO survey.

CHALLENGES TO THE GERMAN AUTOMOTIVE INDUSTRY

Germany's car industry was once recognised around the world for its high-quality, innovative internal combustion engine cars. But things have changed since then.

The latest example is the developments at Volkswagen — which earlier this week said it was no longer able to rule out plant closures in its native Germany

Electric Automation

Seamless Connectivity - from the workpiece to the cloud

FESTO

We are
?READY!
Seamless connectivity

**You want easy and seamless connectivity?
You want quick and easy commissioning for your drive system?
We connect the present to the future.**

**→ WE ARE THE ENGINEERS
OF PRODUCTIVITY.**

Seamless Connectivity - from the workpiece to the cloud

Maximum connectivity of the hardware and software, the best possible efficiency and easy operation with servo motors and servo drives from Festo. They form the perfect link between your mechanical systems and control technology and are quick and easy to commission as a complete drive system with the Festo Automation Suite.



→ www.festo.com/ea

ADVERTORIAL

FESTO

Industrial transformation in automation technology

What your machine concept should look like for a successful future

The industrial transformation and Industry 4.0 have fundamentally changed the way companies produce. IoT, digitalisation and globalisation are having an impact on the industrial automation landscape and are shaking up the market. At the centre of this change are advanced machine concepts that enable more efficient, more flexible and more intelligent production.

How can you design your machine concepts in industrial production to meet future requirements and remain competitive?

Festo takes a look at these topics through this article.

Flexibility and adaptability to meet new requirements

Machines should be able to adapt quickly to changing industrial production requirements. As the market environment is constantly changing, companies must have the ability to quickly adapt their production processes and integrate new products or variants. Modular automation concepts, in which individual machine modules can be combined and customised as needed, offer greater flexibility. This makes companies more agile so they can react to market changes and increase their competitiveness.

Digitalisation and automation of processes

Design machines so that they perform tasks autonomously and without constant human supervision. The digital transformation with the use of artificial intelligence and machine learning allows machines to make decisions independently and improve themselves. By automating processes, efficiency can be increased, product quality is improved and costs are reduced. This can be achieved, for example, by using robotics, advanced sensor technology, artificial intelligence, machine learning and automated control systems.

Predictive maintenance is another key element of industrial change; it helps companies to continuously monitor the condition and state of their machines and systems digitally and identify potential problems at an early stage. Maintenance tasks can be optimised and unplanned downtime can be reduced to a minimum thanks to digitalisation together with data analysis and machine learning.

Seamless connectivity – continuous communication

Machines should be able to communicate with each other and exchange data digitally. This enables seamless integration and coordination in production. Digital networking makes it possible for machines to exchange information in real time. As a result, processes can be optimised, bottlenecks can be identified and efficiency can be increased. In Industry 4.0, for example, this can be achieved through the use of IoT technologies and standardised communication protocols.

Plan for sustainability and lower costs

In the age of Industry 4.0, future machines should also be sustainable and energy-efficient and make optimum use of resources. Energy-efficient components, sensors and advanced control technologies can help to optimise performance and save energy. For example, machines can use sensors to adapt their energy requirements to the current workload or monitor energy consumption in real time. By optimising energy efficiency, companies can not only reduce their environmental impact, but also cut their operating costs.

Safety for people and the environment

Machines should have advanced safety features to protect employees and the environment. In industry, this includes, among others, the use of sensors for detecting hazards, the implementation of safety protocols and the integration of protective devices. Machine safety is crucial to prevent accidents at work and to ensure the health and well-being of employees.

Safe and user-friendly human-machine interaction

The interaction between man and machine should be intuitive and user-friendly so that employees can interact efficiently with the machines and complete their tasks in the best possible way. This is achievable by using ergonomic design, intuitive user interfaces and through the integration of voice or gesture control. By improving human-machine interaction in industry, productivity can be increased, training time reduced and employee job satisfaction increased.

Developing machines for the future: the main aspects

The machines of the future will adapt to the requirements of the industrial transformation. Flexibility, automation, sustainability and connectivity are key factors that can help you to increase productivity and introduce sustainable, energy-efficient production processes. Your company should get ready to implement modular machine concepts, since these will equip you to increase the adaptability and efficiency of your production processes. If you continuously further develop machines in industrial production and integrate new technologies, they will fulfil the requirements of the future. This is how you can shape successful industrial change in your company.



Ralf Höhn
Valve Terminals
Product Management
Festo SE & Co. KG

and felt it may need to end its employment protection agreement that has been in place in the country since 1994.

MAJOR CHALLENGES INCLUDE:

- Aftermath of the Covid-19 pandemic
- Geopolitical tensions and high bureaucratic requirements at the national and European level
- Weaker domestic demand, due to the overall state of the German economy
- China and the shift to electric vehicles — and their overlap
 - Chinese products are better in some ways, as well as more

affordable

- Tensions around trade and import tariffs between the European Union and China
- Investment activity within Germany is notably restrained, with 69% of companies postponing, relocating, or cancelling planned investments.

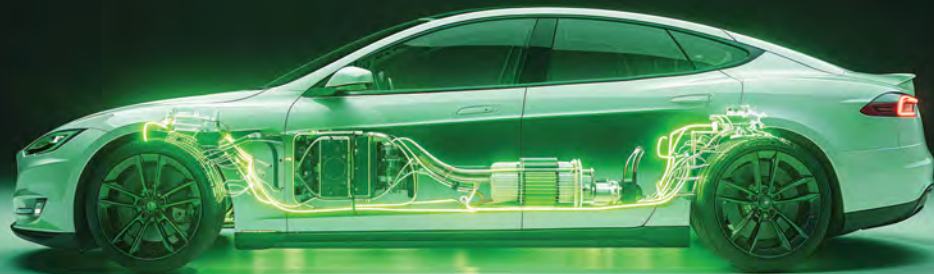
WHAT'S NEXT FOR THE GERMAN AUTO INDUSTRY?

KPMG's Dr. Andreas Ries said. Hybrid vehicle technology will likely be used for longer than expected, for example, and internal combustion motor car sales are somewhat picking back up, he explained.

But politics, business and researchers need to work together to create frameworks to address issues like regulation and to refocus on quality and regulation, he says.

The VDA (German Association of the Automotive Industry) similarly sees a need for different production conditions.

"Many automakers still have guidance in place that suggests their performance in the second half of the year could be better than in the first", Bank of America's Schneider said.



Market Opportunities - Electric Mobility in Germany

- Demand for electric vehicles is rising the range and performance improvements drive uptake levels and battery costs continue to fall.
- Germany now officially has more than 1.3 million electric vehicles on its roads.
- Electric Mobility Innovation Leader - Significant efforts are being made in the area of battery and cell research.
- Electric Mobility Policy Support - The focus is being put on subsidizing vehicles which have a proven impact on climate protection.
- Electric Mobility Act - Legislation like the Electric Mobility Act already grants special privileges to electric vehicles – including the lowering or waiving of fees and exemptions from certain access restrictions.
- Germany's Bundesrat has adopted the Act on Autonomous Driving, thereby paving the way for the regular operation of autonomous vehicles on German roads – making Germany the first country in the world where this is possible.

ADVERTORIAL

BHARAT FORGE



The Indian automotive sector is experiencing a major shift, fuelled by the global move towards electrification and eco-friendly transportation. As a key player in the industry, Bharat Forge is strategically positioned to drive this transformation.

Looking ahead, the next five years will be critical for the growth of India's automotive industry. With the increasing demand for electric vehicles (EVs) and a strong focus on sustainable technologies, Bharat Forge is dedicated to embracing innovative solutions and advancing its capabilities to stay at the forefront of this change. "We are focusing on enhancing our technological capabilities and expanding our product portfolio to meet the demands of this rapidly changing market," says **Baba Kalyani**, Chairman & Managing Director of Bharat Forge. The company has already made significant strides in the electric mobility space, including investments in research and development and the formation of strategic alliances.

The recent Union Budget for 2025 has introduced several initiatives that will positively impact the automotive and component manufacturing ecosystem. Key provisions for Bharat Forge include those related to promoting clean energy and enhancing the competitiveness of Indian manufacturers. Kalyani notes that government support for R&D, infrastructure development, and ease of doing business will strengthen India's position as a global manufacturing hub. These measures will also contribute to

reducing the cost of EV production, making green technologies more accessible.

Germany has long been a strategic partner for India in the automotive and engineering sectors, and this collaboration holds immense potential. Bharat Forge's partnerships with German companies exemplify the strong Indo-German ties that are propelling the automotive industry forward. The company is actively pursuing opportunities for deeper collaboration, particularly in advanced manufacturing, technology transfer, and skill development. Leveraging Germany's leadership in automotive innovation, these partnerships enable Bharat Forge to access cutting-edge technologies and enhance its manufacturing processes.

However, the global landscape is increasingly complex. From supply chain disruptions to geopolitical shifts, challenges abound. Mr. Kalyani highlights the need for Indian manufacturers to be agile and innovative to maintain global competitiveness. This involves investing in technology, building supply chain resilience, and forging strategic international partnerships. The future of Indo-German business relations will be crucial for maintaining a competitive edge, as both nations seek to strengthen their economic and industrial ties.

Bharat Forge is not only focused on the future of the automotive industry but also dedicated to driving sustainability and fostering innovation to meet the needs of a dynamic and evolving market.

MAKING IN INDIA TO THE WORLD



BUILDING THE TECHNOLOGY OF FUTURE

ONE INNOVATION AT A TIME.

- Embedded Systems Design & Development
- Automotive Connectivity & Cloud Solutions
- Electric Vehicle Accelerator Solutions
- ASPICE Certified Processes and Capabilities
- Functional Safety Compliance
- Automotive Cybersecurity Solutions
- Cutting-edge Digital Solutions for Global Brands



EMBITEL TECHNOLOGIES INDIA PVT. LTD.

Sigma Soft Tech Park, 208 to 216, 2nd Floor, Delta Block, Whitefield Main Road, Ramagondanahalli, Bangalore, Karnataka, India – 560066

CONTACT US:

📞 India +91 8041694200 | Germany +49 15206927221

✉️ sales@embitel.com 🌐 www.embitel.com



Sharad Bairathi
Founder, MD and
CEO

The automobile industry is undergoing a major transformation. How do you see India's automotive sector evolving in the next five years, and what role will Embitel play in this transition?

India's automotive industry will see a significant evolution in the upcoming 5 years. The government's schemes supporting e-mobility and the consumer's quest for innovative upgrades in vehicles are catalysts to this evolution.

Embital's Role

As a Volkswagen Group company, Embitel is a globally recognized provider of cutting-edge automotive product engineering services and digital transformation solutions.

With 1000+ engineers, we develop safe and secure automotive embedded systems, connectivity solutions, digital cockpit, EV powertrain innovations, ADAS solutions, system testing/validation strategies, and digital transformation solutions for our clients - including those beyond the Volkswagen Group.

We play a key role in establishing our customers' position in the market as Software Defined Vehicle innovators. We are a technology enabler looking for ways to bring faster time-to-market for our customers through our IP solutions. We explore the end-to-end business of the customer and provide advisory and solutions to open up future revenue channels and enhance business potential.

In the coming years, Embitel will evolve as a major offshoring hub for the Volkswagen Group brands and beyond.

Following the recent Union Budget, from an industry leader's perspective, what key budget provisions do you see as game-changers for India's automotive and component manufacturing ecosystem?

The Union Budget 2025-26 announced a significant reduction in income taxes, thereby increasing the disposable income of the average consumer. This is a positive indicator for the automobile sector, as it could lead to an increase in vehicle purchases.

The government's incline towards sustainable transportation and their vision of self-reliance (Make in India initiative) in the manufacture of automobiles and related components are noteworthy. These programs and incentives aim to increase local manufacturing, reduce imports, improve R&D in auto manufacturing, and enhance export of automotive products. The global manufacturing shift from China to India due to its cost advantage and an abundant, young, skilled labour force is another noteworthy development in this area.

The Union Budget also reinforces India's push for e-mobility, with a 20% increase in funding for EV schemes—a positive sign for the sector. Some of these initiatives are -

- PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) Scheme that supports the growth of EVs and public charging stations
- Scheme to Promote Manufacturing of Electric Passenger Cars in India (SMEC) which encourages EV manufacturing in the country, inspires EV innovations for tech players to compete at a global scale, and generates employment opportunities in the sector
- Domestic manufacturing of batteries and storage systems under the Production-Linked Incentive (PLI) scheme to reduce India's dependence on imports and make EVs more cost-competitive

What opportunities do you see for deeper Indo-German collaboration, particularly in areas like advanced manufacturing, technology transfer, and skill development?

India and Germany share a long-standing partnership in engineering and industrial innovation. What started as a strong trade relationship has evolved into a deeply integrated technology and business partnership, driving global advances in automotive, digital solutions, and next-gen manufacturing.

With more than 2k German companies in India and a workforce of 750,000+, this collaboration is more than economic.

India's deep talent pool, cost efficiencies, and expanding digital infrastructure make it an attractive destination for German firms looking to bolster product development, accelerate time to market, and enhance resilience.

India's emergence as the world's GCC powerhouse with close to 1,700+ Global Capability Centers intersects perfectly with Germany's dominance in precision engineering, automation, and R&D (contributing to 36% of Europe's total R&D spend).

Indo-German partnerships in clean energy, electric mobility, and Industry 4.0 technologies can drive breakthroughs that benefit both economies - A collaboration that combines German precision with Indian agility, powering smart factories, AI-driven supply chains, and next-gen mobility solutions.

But the real game-changer? Talent. When Germany faces a critical skill gap, India's digital-first workforce can be its biggest asset. Co-creating skilling programs, integrating vocational training with AI, IoT, and robotics — that is the next frontier.

This is not just business—it's the future of global mobility, engineered in Germany, scaled in India, and deployed worldwide.



Automotive Industry in India

The Indian automobile industry has historically been a good indicator of how well the economy is doing, as the automobile sector plays a key role in both macroeconomic expansion and technological advancement.

India is the world's third-largest Automobile market. The Automobile industry produced a total of 28.43 million vehicles including Passenger Vehicles, Commercial Vehicles, Three-wheelers, Two-wheelers, and Quadricycles from Apr 2023 to Mar 2024. India holds a strong position in the international heavy vehicles arena as it is the largest tractor manufacturer, second-largest bus manufacturer, and third-largest heavy truck manufacturer in the world. With the push to service the rural markets, companies are more open to exploring the rural market segment which further aids the growth of the sector.

India aims to double its auto industry size to Rs. 15 Lakh Cr by the end of year 2024. Rising middle-class income and a huge youth population will result in strong demand. In The global EV market was estimated at approximately US\$ 250 billion in 2021 and by 2028, it is projected to grow by 5 times to US\$ 1,318 billion.

India is also a prominent auto exporter and has strong export growth expectations for the near future.

The sector has also been a magnet for foreign direct investment (FDI), with a cumulative equity FDI inflow of about USD 35.40 billion between April 2000 and September 2023.

Notably, the government's initiatives have spurred growth,

7.1%

Share in India's GDP

37 MILLION

Employment generated

40%

Share in global R&D

4.7%

Share in India's exports



with the total automobile exports from India reaching 47,61,487 units in FY23, contributing significantly to the nation's GDP and providing employment to about 19 million people directly and indirectly.

AUTOMOTIVE RECYCLING IN INDIA

- Indian govt. actively encourages Automotive Recycling.
- Incentives are offered under Vehicle Scrappage Policy 2021.
- The vehicle owner is liable to receive a discount of 4 to 6% on the new vehicle's ex-showroom cost after scrapping the old vehicle.

While major markets like mainland China, the United States, and Germany grappled

QUICK FACTS - INDIAN AUTOMOTIVE INDUSTRY

India enjoys a strong position in the global heavy vehicles market



India is the largest tractor producer



Second-largest bus manufacturer



Third-largest heavy truck manufacturer in the world



with production setbacks during disruptions caused by COVID-19 and semiconductor shortages, automotive industry in India showed resilience.

Indian automotive OEMs demonstrated a stronger capability to secure semiconductor supplies despite having lower purchasing power compared to global car manufacturers and offering fewer features in their vehicles.

Concurrently, the US and EU's increased tariffs on Chinese EVs have created a void that India is well-positioned to fill.

With its stable supply chain, light vehicle production growth in India is



By 2030, the Indian government has committed that 30% of the new vehicle sales in India would be electric.

expected to maintain a steady pace.

A significant driver of this growth is the anticipated increase in exports from major manufacturers like Maruti Suzuki and Hyundai, which may benefit from the

growing demand for affordable vehicles in emerging markets.

As the Indian automotive industry is in the midst of a technological advancement, there is also a heightened emphasis on supply chain management. Innovations like ADAS (Advanced Driver Assistance Systems), software-defined vehicles, and AI (Artificial Intelligence) are becoming standard features, which require OEMs to integrate these components into their supply chain.

India continues to be one of the most important growth markets for the automotive industry worldwide.

INDIAN AUTOMOBILE EXPORT TRENDS

(in Numbers)

Category	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Passenger Vehicles	6,76,192	6,62,118	4,04,397	5,77,875	6,62,891	6,72,105
Commercial Vehicles	99,933	60,379	50,334	92,297	78,645	65,816
Three-Wheelers	5,67,683	5,01,651	3,93,001	4,99,730	3,65,549	2,99,977
Two-Wheelers	32,80,841	35,19,405	32,82,786	44,43,131	36,52,122	34,58,416
Grand Total	46,24,649	47,43,553	41,30,518	56,13,033	47,59,207	44,96,314



Automation experts in Automotive Industry.



Innovation and quality in the automotive industry

ifm offers innovative solutions for all areas of automation: Sensors and systems from ifm support automotive production with innovative technology and high quality standards. Temperature, pressure, level and flow sensors reliably monitor process media. Safety light grids, safety light curtains and fail-safe inductive sensors assure machine and operator protection e.g. on presses, robot cells and assembly stations. Precise detection of machine parts by inductive, capacitive, photoelectric and cylinder sensors. Vibration monitoring systems for plant wide condition based maintenance strategies. RFID systems, code readers and camera systems for material tracking and quality monitoring complete ifm's product range. ifm – close to you!



ifm electronic India Private Limited
Plot No. P-39/1, MIDC Gokul Shirgaon · Kolhapur - 416234 · Maharashtra
Phone: +91 231 267 2770 · Fax: +91 231 267 2388 · Toll Free: 1800 233 2065
E-mail: info.india@ifm.com · Internet: www.ifm.com

RISING IMPORTS

India imported cars primarily from: Germany (USD 85.1M), China (USD 77.2M), Japan (USD 74.4M), United Kingdom (USD 59.2M), and United Arab Emirates (USD 34M) in 2021-2022.

Major imported items by India from Germany are auto components and parts (US\$ 809 million) in FY23. The Indian imports are likely to continue to grow in the future.

GOVERNMENT INITIATIVES

Government initiatives such as the Production-Linked Incentive (PLI) Scheme have been particularly successful, attracting a proposed investment of Rs. 67,690 crore, surpassing the initial target estimate of Rs. 42,500 crore over a five-year period. Additionally, proactive measures such as 'Make in India', the Foreign Trade Policy (FTP) and schemes like the Advance Authorisation and Export Promotion Capital Goods Scheme have been implemented, boosting manufacturing and automobile exports. The Government of India



Karl Friedrich Benz was a German engine designer and automobile engineer. His Benz Patent Motorcar from 1885 is considered the first practical modern automobile and first car put into series production.

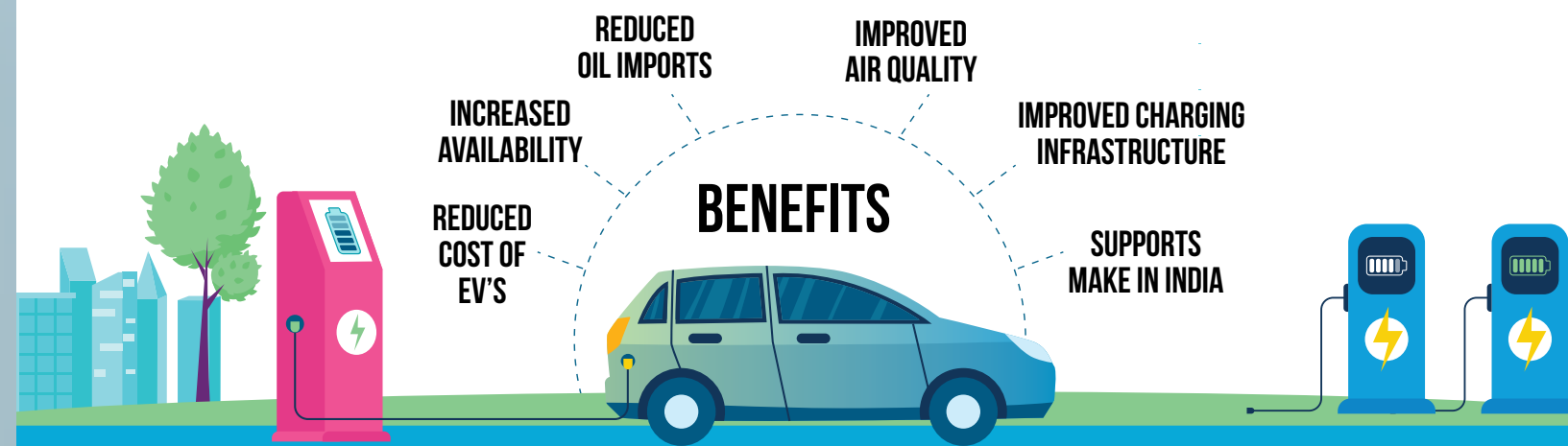
encourages foreign investment in the automobile sector and allows 100 per cent FDI under the automatic route.

WHAT'S WORRYING THE INDIAN AUTO INDUSTRY?

The Indian automobile industry faces a number of challenges, including:

- The Banking Crisis: The insolvency and the subsequent state rescue of the private financial services provider IL & FS has created a crisis. According to SIAM, 70 % of the two-wheeler and 60% of the commercial vehicle sales are financed by shadow banks.
- Supply chain: The global automotive industry has faced supply chain constraints and disruptions especially during the pandemic.
- Environmental concerns: The industry is under pressure to adopt greener technologies to meet environmental regulations and sustainability goals. Balancing environmental goals with economic viability is a significant challenge.
- Economic slowdown: An economic slowdown, liquidity issues, and weak consumer demand can force automobile companies to delay expansion plans and technology upgrades, cut employee wages, or even retrench employees.
- Infrastructure issues.
- High taxes and tariffs.
- The industry needs skilled labour.

BENEFITS OF GOVERNMENT POLICIES AND INCENTIVES FOR EV ADOPTION



We Make Things Move

Customised Friction Solutions Across Mobility Applications



From automobile to construction equipment, agriculture to defence, ICE to hybrid and E-mobility.

NRB Bearings group supplies worldwide to 35 countries including Sweden, Germany, France, Italy, USA, Mexico, Brazil, Thailand and Japan, NRB Keeps the world moving.

Automotive • Off Highway • Farm Equipment • Railway • Defence • ICE • Hybrid • E-mobility



IGBM 01, 2025

COVER STORY
INDO-GERMAN BUSINESS MAGAZINE

35

- The disruptive entry of new players can be a challenge.

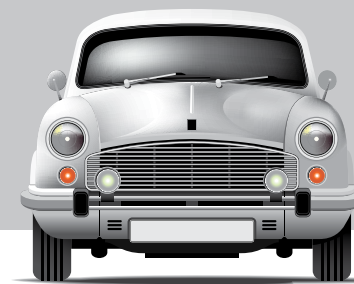
TRANSITIONING TOWARDS ELECTRIC VEHICLES IN INDIA -FUTURE AHEAD

Govt. of India has taken multiple steps in the last few years to foster the right policy environment to promote Electric Vehicles.

Future market growth is anticipated to be fuelled by new trends including the electrification of vehicles, particularly three-wheelers and small passenger automobiles.

The automobile industry is

The first car to hit Indian roads was in 1897. All cars were imported directly as India did not have any manufacturing facility. It was only by 1940 that Indian companies like Hindustan Motors and Premier started to manufacture cars for other firms. From the 1960s to the 1980s, the Indian market was dominated by the Ambassador model made by Hindustan Motors. During the same decade, Mahindra & Mahindra also started to produce utility vehicles.



POTENTIAL OF INDIA AUTOMOTIVE INDUSTRY TO BRIDGE GAPS IN GLOBAL SUPPLY CHAIN



STABILITY IN UNCERTAINTY

- High GDP growth rates: 6.1% (avg 2026-2031)
- 2.7% Global Inflation to remain moderate: 4-6%
- No major impact of Russia-Ukraine/Middle-East conflict.



DOMESTIC MARKET

- 3rd largest domestic market
- Most populous country
- Low penetration of cars 38/1000
- Increased investments from almost every carmaker
- Straight Time Capacity to increase from 6.8 million units in 2023 to 10 million in 2031



EXPORT OPPORTUNITIES

- Alternate Global Supply Chain
- Return of protectionism
- EU increased tariffs on Chinese EVs
- Increased Export strategies

dependent on various factors such as the availability of skilled labour at low cost, robust R&D centres, and low-cost steel production. The industry also provides excellent investment opportunities and direct and indirect employment to skilled and unskilled labour. The electric vehicles industry is likely to create five crore jobs by 2030.

India's drive towards electric vehicles (EVs) is gaining momentum. It is projected to become the third-largest EV market by 2025, with 2.5 million vehicles expected to be on the roads.

The number of electric vehicle

registrations in India surged from 1.3 million in 2018 to 15.29 million by 2023.

While making purchase decisions, Sustainability has become one of the top factors for consumers with safety, brand reputation, and cost.

This change is driven by increased environmental awareness, leading to a growing interest in electric vehicles (EVs) and other sustainable transportation options.

With India poised to lead the EV revolution and solidify its position as a global automotive hub, the future of the Indian automobile industry looks promising and exciting.

Sources: GTAI; VDA; Statista; InvestIndia; IBEF; Economic Times; CNBC; Just Auto; Times of India; UJA; SPGlobal; OEC World; Kogta Financial; Wikipedia; Wikimedia Commons; Tecnova, DPIIT; International Journal of Research Publication and Reviews; Medium



Herrenknecht India Supplying Largest Locally Manufactured TBM

Herrenknecht India has significantly advanced the localization of Tunnel Boring Machines (TBM) manufacturing through its dedicated facility in Chennai, Tamil Nadu. We are capable of producing 10 to 12 metro-sized TBMs annually, with approximately up to 50-70% of components sourced locally.

During 2023, Herrenknecht secured a contract for the supply of mega TBM's for Thane – Borivali tunnel project in Mumbai. This is a Twin Tube, 3 Lanes each Highway Tunnel project between “Thane City and Borivali” in the State of Maharashtra & will reduce the driving time from 1-2 hours to just 15 minutes upon completion. Project will feature 2 x 10.8 km road tunnels under Sanjay

Gandhi National Park (SGNP). The Four powerful Herrenknecht Single Shields (13.28m Diameter) are optimally designed for the challenging geological conditions of the region: moderately weathered basalt with a uniaxial compressive strength (UCS) of up to 150 MPa. The overburden of the tunnels ranges between approximately 12 and 311 meters.

Herrenknecht India has successfully manufactured and assembled First TWO TBM's for Thane - Borivali project in Chennai, with substantial local contents. These are the largest TBM's to have been manufactured at Herrenknecht Facility in INDIA. It is also the FIRST time that, Tunnel Boring Machines of more than 12m size are being supplied from INDIA by any TBM manufacturer.

Herrenknecht India's commitment to local production not only strengthens regional expertise but also reduces transportation distances, contributing to environmental sustainability. This unique approach, along with our custom designs and refurbished services, ensures that our machines meet the highest quality standards, offer long term efficiency and reliability, and are optimized for India's specific geological conditions in tunneling projects..

For more information:
Nitin Garg
Email: garg.nitin@herrenknecht.com
Tel: +91 98116 02141
Saurabh Raju
Email: saurabh.raju@herrenknecht.com
Tel: + 91 96500 37117

ADVERTORIAL

Volkswagen Virtus continues to be the segment leader amongst premium sedans Reinforces position as India's No.1 premium sedan

In 2024, Volkswagen Virtus, achieved its highest-ever monthly sales record of 2,377 units in December. Ever since its launch in 2022, the Virtus has won hearts and minds across the nation, thanks to its German pedigree that makes it fun-to-drive, safe and robust.

Volkswagen Virtus has not only become India's most loved premium sedan but also continued on a growth trajectory despite significant headwinds in the segment. In 2024, the brand also introduced a new 'Sport' line structure for the Virtus with the launch of the Virtus GT Line and Virtus GT Plus Sport. Both new models were met with grate admiration from fans and customers alike.

Mr. Ashish, Brand Director, Volkswagen Passenger Cars India, said that the success of the Volkswagen Virtus in

the Indian market is a clear reflection of their customers' trust and confidence in the brand's commitment to quality, safety, and performance. The Virtus has not only redefined the premium sedan segment but has also set new standards with its driving dynamics, comfort, safety features, and striking design.

Volkswagen Virtus has rapidly climbed the ranks in the premium sedan segment, selling nearly 60 units every day across India and reaching a major sales milestone of 50,000 units since inception. Last year, the Volkswagen Virtus also set a new national record for the maximum distance travelled by a car in 24 Hours. The feat witnessed the Volkswagen Virtus travelling 4,654.48 km in 24 hours, showcasing the sedan's endurance, capability and power.



Rödl & Partner

MEETING ADVERSITY

As an integrated professional services firm, Rödl & Partner is active at 110 wholly-owned locations in 50 countries. Our clients trust 5,800 colleagues and entrepreneurial minded partners in the globally provided service lines.

Offering professional services in India means building bridges between the specific Indian and European business requirements, helping organisations from both regions to invest successfully abroad.



India:

Ahmedabad | Bangalore
Chennai | Delhi | Mumbai | Pune

Germany:

Nuremberg

www.roedl.com/india

IGBM 01, 2025

MEMBERS' CONTRIBUTION
INDO-GERMAN BUSINESS MAGAZINE

39



Bridging the Leadership Gap for German Companies in India:

Upskilling Your Junior Managers for Sustainable Growth

As your enterprise establishes its presence in India, strong leadership at all levels becomes essential. German companies are expanding their manufacturing operations, and investing in leadership development is key to long-term success.

Often high-performing professionals in your organisation are promoted to managerial roles. However, transitioning from expert to leader requires a new mindset, expanded competencies, and the ability to drive team performance. Without structured leadership development, first-time managers may struggle with delegation, conflict resolution, communication, and decision-making—impacting productivity and business performance.



For your operations in India, bridging the leadership gap among junior managers is not just an HR initiative, it is a strategic necessity.”

For your operations in India, bridging the leadership gap among junior managers is not just an HR initiative, it is a strategic necessity. By upskilling these managers, you will mitigate attrition, ensure strong leadership, higher employee engagement, and long-term sustainability.

KEY LEADERSHIP CAPABILITIES FOR YOUR JUNIOR MANAGERS

- 1. Emotional Intelligence (EQ):** Effective leaders must be self-aware, empathetic, and able to build strong relationships. EQ training helps managers balance assertiveness with approachability, fostering team morale and engagement.
- 2. Communication and Influence:** Technical skills alone are not enough. Clear, persuasive, and adaptable communication is critical. Junior managers must master performance feedback, stakeholder engagement, and cross-cultural communication.
- 3. Strategic Thinking and Decision-Making:** New managers must shift from task execution to analysing industry trends, anticipating challenges, and aligning decisions with long-term business goals.
- 4. Delegation and Time Management:** Many first-time managers struggle to delegate. Leadership programs should teach them to trust their teams, manage priorities efficiently, and focus on strategic tasks rather than micromanaging.
- 5. Cross-Cultural Competence:** As a German manufacturer in India, your business operates in

a culturally diverse environment. Leaders must develop their cultural intelligence and their ability to be culturally agile, to lead multicultural teams and ensure seamless collaboration.

BUILDING AN EFFECTIVE LEADERSHIP DEVELOPMENT STRATEGY

You can accelerate leadership readiness through:

- **Mentorship & Coaching:** Pairing junior managers with experienced leaders for real-world problem-solving
- **Leadership Workshops:** Focused training on communication, decision-making, and cross-cultural leadership

- **Experiential Learning:** Exposure through job rotations and cross-functional projects
- **Digital Learning & Continuous Development:** Leveraging e-learning, executive coaching, and skill-building platforms

By embedding these strategies, your company will develop resilient leadership teams that drive innovation and business success.

INVESTING IN THE LEADERS OF TOMORROW

Upskilling your junior managers is a business imperative. As your enterprise expands in India, strong, agile, and culturally competent leaders will be crucial to navigating

complexity and driving success.

By prioritising leadership development, your company will ensure that managers evolve from operational experts into visionary leaders who contribute to growth, innovation, and global competitiveness.

StrengthMiner Consulting LLP, a German-founded and lead provider of Learning and Development Services, provides expert guidance, as well as design and implementation of structured and tailored leadership upskilling programs.

For more information:
Email: office@strengthminer.com



We manufacture high-quality carbon seal rings for any industrial applications that can be resin-impregnated and metal-impregnated.

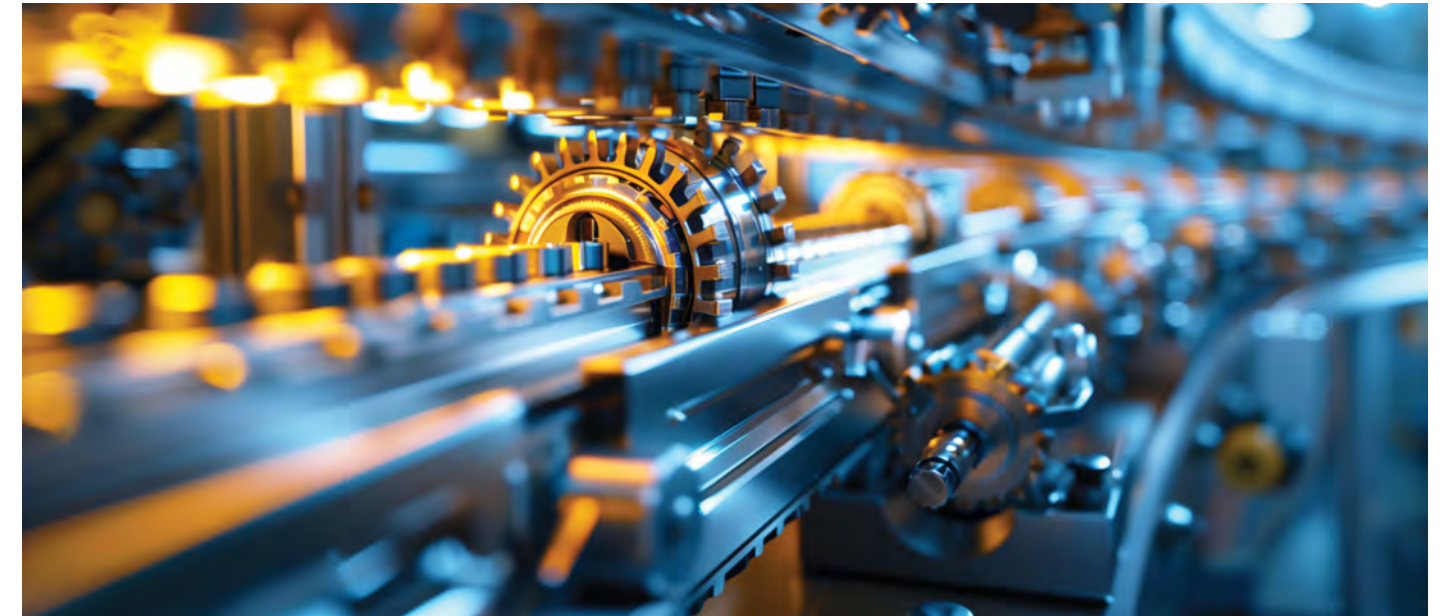
Our products are crafted for maximum quality and the highest tolerance while being compliant with FDA and WRAS.

Our carbon products have self-lubricating properties that reduce friction and are of primary importance across an array of applications. We assure superior consistency and standards even between batches, in order for your end product to maintain its reputation and quality.



KRISH CARBON

63/3, Athipalayam Road, Chinnavedampatti,
Coimbatore - 641 049, INDIA
Phone: +91 422 710 9966, 266 9966,
Fax: +91 422 266 6695, Email: sales@krishcarbon.com,
Web: www.krishcarbon.com



Redefining the Global Capability Center Space With Innovation, Design and Engineering R&D

Global Capability Centers or Offshore Delivery Centers or Design Centers or even simply known as Technical Center (GCC) are offshore service units set up by companies in a low cost country to deploy business functions such as finance, human resources, accounting, compliances, sales support, service delivery, software development, and product development amongst others. These GCCs have enabled the corporates to increase operational efficiencies and optimise the cost levels. The business functions are carried out either for local markets or for a particular region or for global markets.

Since 1990s till 2010, GCCs were established in India with high head count not requiring specialised tech expertise or skill, primarily to gain from cost and talent arbitrage. Post 2010, the corporates gained further confidence in India's strategic advantage and further invested in

These GCCs have enabled the corporates to increase operational efficiencies and optimise the cost levels.

transforming these support centers into capability development centers.

From 2010, growth is also reflected in the numbers. The number of companies having their GCC in India has doubled from ~700 in 2010 to 1,800+ in 2024. India now accounts for almost 50% of all GCCs worldwide. In the Financial Year (FY) 2024, India's GCCs generated USD 65 billion in revenue and employment for 1.9 million professionals. By FY2030, the GCC

landscape is projected to generate annual revenue of USD 99-105 billion with number of companies crossing 2,500.

The number of GCCs in the automotive sector has increased from just 7 in the early 2000s to over 60 in FY2023. Nearly half of these GCCs have been set up within the last decade. In FY2023, these centers generated over USD 3 billion in revenue and created employment for over 110,000 professionals. By 2030, Indian automotive GCCs are expected to generate USD 9 billion in terms of annual revenue and employ 300,000 professionals.

While automotive GCCs maintain a nationwide presence, Tier I cities have a significantly high concentration of these entities (~94% of the total automotive GCCs). Pune accounts for 38% of their presence in India, followed by Bengaluru (31%), Chennai (10%), Hyderabad (8%), and Delhi National Capital Region (7%).

More than 50% of these

automotive GCCs have been set up by auto components manufacturers or system providers whereas around one third of these GCCs are of automobile and offroad manufacturing companies. The remaining share in terms of numbers is contributed by pure technology development and ER&D companies in the automotive space.

These industry stakeholders have been witnessing a dynamic shift in consumer preferences, especially amongst middle class and Gen Zs, towards innovative, tech-driven, and environment-friendly automotive solutions. Moreover, technological advancements in product offerings as well as manufacturing processes, gradual transition from conventional to electric vehicles (EV), and evolving business models have created a need for the automotive companies to evolve into a high-tech solution provider than just a product company. To embrace these changes in cost effective and efficient manner, automotive companies have been setting up GCCs with a focus on automotive engineering, R&D, and innovation.

Over the past decade, Indian automotive GCCs have increasingly diversified their range of services or support being extended under ER&D umbrella. A majority of them undertake product design, testing, validation, simulation, and prototyping. These centers deploy cutting-edge technologies, in the field of in-vehicle data analytics, embedded systems, IoT, cloud computing, ERP, and CRM integration. Many of these centers also focus on next-gen R&D related to advanced driver assistance

systems, autonomous driving, connected vehicles, batteries for electric vehicles, robotic process automation, advancement in charging infrastructure for EV, and hydrogen-powered vehicles amongst others.

In addition to the enrichment of service portfolio being rendered by automotive GCCs in India, the business models or entity structures have also been evolved taking into consideration company background, nature of the sector and services to be deployed, strategic objectives of the GCC being setup, project costs and viability, regulatory environment, amongst others. Some of these models include but are not limited to:

■ **Captive Centers (Company-Owned and Company Operated):** The parent company retains total control over operations, processes, and quality standards. It is responsible for initial set-up and alignment with company goals and standards.

■ **Hybrid Models:** The parent company maintains 100% ownership, but the initial set-up (incorporation, hiring, facilities) is facilitated through third-party service provider. This model provides greater flexibility to leverage external expertise while retaining core functions and service delivery with the company itself.

■ **Joint Ventures:** This model brings advantages and comfort to having access to partner's expertise and sharing of risks and resources.

■ **Build-Operate-Transfer (BOT):** A third party initially establishes and owns the legal entity for the GCC or a division within

its organisation, manages the setup & deploys services during 'Operate' phase and eventually transfers the ownership to the parent company at pre-agreed terms and valuation. This approach allows the corporates to start with smaller teams at lower cost in limited time. Depending on the potential, operations of the GCCs can be scaled up quickly with the help of BOT partner's expertise, experience and existing setup. This approach offers quick scalability and flexibility.

"In the next 5-10 years, automotive GCCs are projected to command higher share in the total GCC market in India, due to demand for tech-enabled automotive systems, tough global competition, increased need for Environmental, Social and Governance compliance, amongst others. This is expected to put further pressure on the talent ecosystem, especially experienced professionals in Tier I cities. Hence, it is imperative for the Government and the corporates to join forces on various initiatives such as skill development at an entry level, upskilling of existing talent pool in Tier I as well as II cities. Further enrichment of the talent pool will create a platform for the next wave of growth for GCCs on the global radar."



Unleashing the potential for further growth in trade and exports between India and Germany

Interview with **Ralph Lerch**, Global Head of Export & Agency Finance, DZ BANK AG

WHY IS INDIA NOW MORE APPEALING TO THE GERMAN INDUSTRY THAN EVER BEFORE?

With more than 1.4 billion inhabitants, India is not only the most populous country and largest domestic market in the World but has also become a political and economic powerhouse. Under Prime Minister Narendra Modi, India has developed into a politically stable, self-confident and respected member of the BRICs and is widely admired for its balanced and conciliatory approach amid current geopolitical challenges. The Indian economy has consistently achieved above-average GDP growth rates exceeding 6% (2023: +7.6%), serving as a growth engine not only for the region but also for the global economy.

Growth is likely to continue driven by increasing consumer spending, especially in rural India, as inflation subsides, and agricultural output improves after favourable monsoon conditions. Due to the demographic evolution, job creation remains a high priority, as does the expansion of infrastructure, as well as the energy, petrochemical, automotive, electromobility, semiconductor, data centre and digitalisation sectors, to name a few. For many German companies, India is increasingly well-positioned to capitalise on the supply chain diversification trends due to its solid economic fundamentals, sound






Maximising
the value of space.
Together.



Heightened convenience, Effortless functionality
Unlock seamless floor-to-ceiling access with **Aluflex 80B Sliding System.**

KITCHEN SOLUTIONS | APPLIANCES | LIGHTING SOLUTIONS | DIGITAL SECURITY SOLUTIONS | SURFACES | WATER SOLUTIONS | SLIDING SOLUTIONS | FURNITURE FITTINGS | ARCHITECTURAL HARDWARE & GLASS FITTINGS

Customer Care Details:  : 1800 266 6667  : +91 97691 11122  : customercare@hafeleindia.com



IGBM 01, 2025

digital infrastructure, favourable demographics and abundant market opportunities. A recent survey revealed that nearly 60 % of German businesses plan to increase investment in India in FY 2024-25, with 78 % intending to boost investments over the next five years.

In 2023, bilateral trade between India and Germany already totalled around USD 33 billion and is set to increase further. German exporters have a good reputation ('Made in Germany'), particularly in the field of mechanical and plant engineering, and have vast experience in the vocational training of engineers and skilled workers. For the approximately 1,800 German companies based in India, this means excellent prospects for continued good business in the future.

To the same extent, Indian companies are investing and exporting overseas including Europe, thereby creating powerful manufacturing facilities, supply chains and global links for economic

co-operation also with German companies.

WHAT RISK MITIGATING AND FINANCING OPTIONS ARE AVAILABLE FOR TRADE BETWEEN INDIA AND GERMANY?

A large share of the trade volume between India and Germany is conducted through foreign payment transactions between banks from both countries. All sorts of guarantees and documentary collections are also frequently used instruments in the bilateral import and export



In 2023, bilateral trade between India and Germany already totalled around USD 33 billion and is set to increase further."

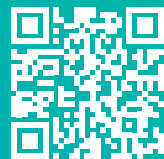
of goods. In 2024, India ranked fourth among issuing countries for letters of credit received in Germany, exceeding 5,000. German banks often confirm these letters of credit, which commonly underpin short and medium-term financing solutions up to three years, including deferred payment letters of credit, forfaiting, and L/C post-financing.

The "so-called" Hermes cover provided by the Federal Republic of Germany as part of its export promotion programme, also plays an important role in covering short-term payment terms for German exporters to India. In 2023, around two thirds of the Hermes cover volume for India, totalling EUR 780 million, was accounted for by short-term whole turnover cover (Ausfuhr-Pauschal-Gewährleistung, short APG) and short-term supplier credit cover, i.e. payment terms of up to 2 years. Thus, India ranked sixth among the countries with the largest volume of new Hermes cover worldwide in 2023 and will achieve a similar outstanding result in 2024. This is good news for importers and exporters.

WHAT OPPORTUNITIES ARISE FROM LONG-TERM ECA COVERED EXPORT FINANCING?

Public export credit agencies (ECAs) such as Euler Hermes Aktiengesellschaft ; acting on behalf of the Federal Republic of Germany, traditionally also provide cover for long-term export financing to India, primarily with Indian corporates as borrowers (buyer's credit). In this scheme, machines, plant and equipment, i.e. capital goods that are amortised over longer periods, are financed on a tied basis (for a





Experience



Hub of the textile world

Groz-Beckert is the world's leading provider of industrial machine needles, precision parts and fine tools for knitting, weaving, nonwovens, tufting, sewing and spinning.

As a globally active family-run company, we currently employ around 9,500 employees – more than 2,200 of whom work at our headquarters in Albstadt, Germany.

We maintain long-term partnerships and open dialog with our employees and customers, because we know: we can only move forward together.

www.groz-beckert.com

IGBM 01, 2025

specific purpose). Since last year, the OECD has implemented an OECD arrangement modernization package (ECA guidelines) including new maximum repayment periods of up to 15 years. For green transactions that additionally fulfil the requirements of the Climate Change Sector Understanding (CCSU), the repayment periods can extend to a maximum of 22 years. Project finance with ECA-covered tranches will also benefit from these improvements. In my view, the longer repayment terms are particularly helpful for larger capex investments or for infrastructure expansion projects.

Despite such robust trade between Germany and India, there are nevertheless several reasons why the use of long-term ECA-covered export finance has fallen short of expectations in recent years. These include, above all, the current unfavourable classification of India in OECD category 3 (out of 7), which significantly increases the costs of such financings. If the OECD model does not come up with a better category for one of the world's leading economies, then the model needs to be revised.

Furthermore, the relatively high level of interest rates in EUR and USD in the past did not encourage investors to make use of long-term loans in foreign currency, some investments have been even postponed. In times of volatility Indian importers with revenues mainly in rupees also face substantial FX hedging costs. As the EUR interest rate level started to fall steadily from the end of 2023, the outlook could improve from 2025 onwards. But be careful – the interest rate level evolution may not



In 2023, bilateral trade between India and Germany already totalled around USD 33 billion and is set to increase further.”

be as steady as what it currently looks like (14 February rates!).

The volume of new long-term Hermes cover amounted to a modest €272 million in 2023. I therefore believe there's to be potential for substantial growth. In January 2025, the German government adopted a comprehensive package of measures to expand the Hermes cover, which could create new impulses for India. Key elements include a more flexible approach to the German sourcing requirements ("flex&cover") and easier access to the shopping line product, which will enable Indian importers to expand their supplier's base in Germany. Hermes cover for projects in the defence sector will be also possible under certain conditions. The government package also aims to enhance the efficiency of procedures and provide greater support for small tickets, with improvements to the forfaiting and bonding guarantee schemes.

HOW DOES DZ BANK SUPPORT ITS CUSTOMERS IN TRADE & EXPORT FINANCE?

DZ BANK established its Mumbai representative office 29 years ago and collaborates with over

30 Indian banks locally. Our chief representative Rinsi Sud and her team, supported by product specialists from Germany, Singapore and Hong Kong, advise German and Indian companies on initiating, risk mitigating and financing foreign trade business. DZ BANK's area of expertise in the documentary business includes the issuance and confirmation of guarantees (bid bonds, down payment guarantees, performance bonds, etc.), where it offers exceptional comfort to its Indian correspondent banks and German corporates thanks to its favourable rating (AA- Fitch).

DZ BANK is a leading provider of ECA-covered export finance, operating not only in Germany but also in Europe and Asia. We have a proven track record of facilitating exports to India and have seen an increase in requests for new transactions and projects since last year. In addition to Hermes, we offer export finance solutions with 16 other ECAs, including Atradius (Netherlands), SERV (Switzerland), OeKB (Austria), SACE (Italy), Finnvera (Finland) and K-Sure (South Korea).

This is accompanied by an increased demand for information and advice regarding the sustainability of such projects, which we are pleased to provide. As your partner, our goal is to guide you confidently through all aspects of structured export finance. We look forward to connecting with you!

(<https://www.oecd.org/content/dam/oecd/en/topics/policy-sub-issues/financing-terms-and-conditions/cirrs.pdf>)

Some might call it a way
to build a better future
for the next generations.
We call it:



A Future-proof Tomorrow

TÜV SÜD's technology and know-how are reshaping the world of sustainability standards for the next generation. It's all part of our strong commitment to a cleaner, greener world.

Add value.
Inspire trust.



Navigating the Future

A Bold Budget for 2025



The Union Budget 2025 presents a bold vision for India's economic future and Viksit Bharat, focusing on accelerated growth, inclusive development, stimulate private investments, and boost consumption. The Budget reflects the Government's vision of transforming India into a global manufacturing hub. With this intent and to promote the contribution of MSMEs in generating employment and manufacturing, slew of measures has been introduced to boost the MSME sector, such as enhancing the turnover and investment limits of MSMEs, better credit accessibility etc. A key feature of Budget 2025 is its focus on addressing middle-class concerns, as evident from rationalization of tax slabs which has been central to pre-budget debates. With significant relief measures for this segment, the budget seeks to revive the consumption cycle while maintaining fiscal discipline, targeting a reduction in the fiscal deficit to 4.4% by FY 2025-26.

The Budget also outlines India's ambition to accelerate growth through comprehensive reforms



Anand Khetan, Partner, Deputy Head,
West and South India, Roedl & Partner
Consulting Private Limited

across sectors such as taxation, urban development, power, mining, and financial services. With the Viksit Bharat@2047 vision aiming for India to be a developed nation by its 100th year of independence, the Budget focuses on emerging technologies like AI, robotics, biotechnology, and parallel manufacturing growth. With a clear roadmap for transformative reforms, Budget 2025 sets the stage for a future where India strengthens its global position while fostering inclusive growth across all sectors under the guiding principle of "Sabka Vikas."

A significant announcement made by the Indian Finance Minister in her Budget Speech was the introduction of the **Income Tax Bill, 2025 ('IT Bill')**, replacing the **Income Tax Act, 1961**. The government has lived up to its promise and introduced the IT Bill in the Parliament on 13 February 2025. The IT Bill does not make too many changes to the existing provisions, tax rates or schemes, however simplifies and streamlines the law by reducing number of provisos to sections, cutting redundant clauses etc. This overhaul of the Income Tax law is designed to make the tax structure more transparent, easy to read, and navigate, promoting greater compliance and a more efficient system for all.

We have captured below the key tax proposals as put forth by the Hon'ble Finance Minister.

DIRECT TAX PROPOSALS

- Income Tax rebate will be provided to resident individual taxpayers with income (excluding special rate income like capital gains) of up to INR 12 lakh under new tax regime and as a result, there will be no Income Tax upto income of INR 12 lakh. Such relief measure

benefits middle-income groups, resulting in a net INR 1 lakh crore tax foregone by the Revenue Department.

- To simplify provisions related to house property and stimulate real estate, value of two-house properties for income-tax purpose shall be considered as Nil going forward, irrespective of reasons.
- Extension of sunset clause for new Indian startups / IFSCs upto FY 2030.
- To avoid disputes in business reorganizations, a clarificatory amendment is proposed to restrict the time for carry forward of losses of predecessor entity by the successor entity upto a maximum period of 8 years, from the year, in which such loss was first computed by the predecessor entity.
- On the **International tax front**, a presumptive scheme of taxation is proposed to be introduced for non-resident ('NR') providing

services / technology to an Indian company engaged in **electronics manufacturing facility** or manufacturing electronic goods where profits would be deemed at 25 per cent of the aggregate amount received or receivable by the NR. This provision is aimed at the Government's vision to promote India as a global hub for manufacturing semi-conductors, electronics.



The Budget also outlines India's ambition to accelerate growth through comprehensive reforms across sectors..."

- It is also clarified to exclude from Significant Economic Presence, activities of a NR confined to purchase of goods for the purpose of export in India.
- A significant update from the **Transfer Pricing** ('TP') front brings good news not only for taxpayers but also for the tax administration. As a measure to reduce TP litigation, a scheme to determine arm's length price of international transactions for a block period of three years, is being considered while expanding the scope of Safe Harbour Rules.
- Rationalization of TDS and TCS provisions including enhancing limit of TCS on liberalized remittance scheme payments from INR 7 lakh to INR 10 lakh.
- With an aim to provide relief and reduce the compliance burden, provisions relating to deduction/ collection of tax at higher rates has been removed for non-filers of return of income.



...Budget 2025 sets the stage for a future where India strengthens its global position...

- Penalty provisions have been rationalization for providing certainty and reducing litigation
- The filing deadline for updated returns has been extended to 4 years, in line with rectifications, to make it more favorable for taxpayers to avail the benefit and pay taxes without undergoing assessment and scrutiny.

INDIRECT TAX PROPOSALS

- A proviso is set to be inserted in Section 34(2) of the CGST Act, 2017, mandating that if a supplier issues a credit note to reduce tax liability, the recipient must reverse the corresponding ITC. This ensures ITC is claimed only to the extent of tax actually paid, preventing undue credit retention.
- ITC Distribution on Reverse Charge: Amendments to Sections 2(61), 20(1), and 20(2) of the CGST Act, 2017 will enable ISD to distribute ITC on inter-state supplies under reverse charge, referencing Sections 5(3) and 5(4) of the IGST Act, 2017. Effective from April 1, 2025, this change aims to provide clarity and ensure uniform ITC distribution.
- To discourage non-meritorious litigation, Sections 107(6) and 112(8) of the CGST Act, 2017 are proposed to be amended to introduce a mandatory 10% pre-deposit for penalty-only appeals. This applies in cases where tax has already been paid but penalties are contested.
- Section 148A is being introduced in the CGST Act, 2017, establishing a Track and Trace Mechanism for specified high-value goods. This initiative seeks to curb tax evasion and enhance supply chain transparency.
- To remove ambiguity, Section 17(5)(d) of the CGST Act, 2017 will be revised by replacing "plant or machinery" with "plant and machinery," ensuring clarity on ITC eligibility retrospectively from July 1, 2017.
- In line with the 55th GST Council recommendations, Sections 12(4) and 13(4) of the CGST Act, 2017 are proposed to be omitted. This will ensure vouchers are taxed based on actual use rather than issuance, reducing disputes.
- To align GST with Customs regulations, Schedule III of the CGST Act, 2017 will classify

- pre-clearance warehoused goods, including FTWZ and SEZ transactions, as neither goods nor services, effective from July 1, 2017. No refund of previously paid tax will be granted, ensuring revenue neutrality.
- A new sub-section (1B) under Section 18 of the Customs Act, 1962 is set to introduce a two-year limit (extendable by one year) for finalizing provisional assessments. For pending cases, the time limit will be counted from the Finance Bill's assent date.
- A new provision under Section 18A of the Customs Act, 1962 will allow importers/exporters to revise entries post-clearance within a prescribed period. This facilitates self-assessment of duties and voluntary payment/refund claims within one year.
- From April 1, 2025, the dispute settlement process under the Customs Act, 1962 will be discontinued. A new clause in Section 127A will establish an Interim Board under the Central Excise Act, 1944, empowered to handle pending settlement applications under the Customs Act, 1962.



Dinesh Mirchandani
Managing Partner

Boyden

Contact Details:

Dinesh Mirchandani, Managing Partner
Mobile: 98200 64724
Email: dmirchandani@boyden.in

Address:

44A, Phoenix House, 462, SB Road, Lower Parel,
Mumbai 400013. Tel: +91 98200 64724
Email: dmirchandani@boyden.in
Website: www.boyden.in

boyden

To win the war for talent, you need the best executive search firm. You need Boyden.

Boyden pioneered executive search worldwide, nearly 80 years ago. Today, our global network of 800 consultants in over 75 cities and 45 countries serves our clients effectively. Our organisation structure has unleashed entrepreneurial spirit providing a platform of seasoned professionals. We pioneered executive search in India, over 45 years ago, and have built a flawless reputation for excellence in service delivery, client management, and candidate tenure.

Team Boyden operates at the C-suite, a level which requires particular skill and experience. We handle complex, challenging cross-border searches, locating very niche talent across the world and bringing them to add value to our clients in India, or elsewhere. While 10% of candidates renege on a signed offer, that number is zero for Boyden. Executive search is deceptively easy to do, few firms do it well. We do.



Pankit Patel
Founder

BUSINESSSTRINGOLO PRIVATE LIMITED

Contact Details:

Pankit Patel, Founder
Mobile: +91 99980 29290
E-mail: pm@businesstriangle.co

Address:

313 TO 321, Neptune Edge, Sarabhai Compound,
Racecourse, Vadodara- 390 007, Gujarat, India.
Tel: +91 73594 11122. Email: pm@businesstriangle.co
Website: www.businesstriangle.co



8 years of experience in Sourcing and supply chain management

"Business Triangle" offers strategic sourcing and procurement services, helping global buyers source directly from Indian manufacturers across various industries. We assist businesses in finding the right product partners at competitive prices, improving supply chain efficiency, and reducing costs. Our services include market research, supplier identification, price negotiation, quality control, production oversight, risk management, and logistics management. We also guide businesses through the complexities of the Indian market, identifying growth opportunities and ensuring compliance with local regulations and certifications.

Our business strategic approach is based on the following precepts: ♦ Inclusive growth for customers and principals ♦ Commitment to customer success ♦ Continuous innovation to stay ahead of the curve ♦ Complete transparency and ethical conduct ♦ Committed to finding creative solutions to customer problems.

Our business services expertise covers the following industries: ♦ Pharmaceuticals and APIs ♦ Cosmetic industry ♦ Food and food ingredients ♦ Leather and footwear ♦ Chemicals and intermediates ♦ Textiles and apparel ♦ Petrochemicals ♦ Plastics and packaging ♦ Electronics and electrical ♦ Auto components ♦ Fastener industry



Arjun Sirur
Chairman and Managing Director

Cotmac Electronics Pvt. Ltd.

Contact Details:

Arjun Sirur, Chairman and Managing Director
Email: Arjun.sirur@cotmac.io

Address:

S-168, MIDC, Bhosari, Pune 411026, Maharashtra, India
Tel: +91 020 6639 9900
Email: info@cotmac.io
Website: www.cotmac.io



COTMAC: A Leader in Industrial Automation

Since our foundation in 1992, Cotmac Electronics Pvt. Ltd. is a trusted name in industrial automation. With a team of over 1,000 professionals, we have successfully delivered more than 11,000 projects across 70+ countries. Our expertise includes Factory, Process automation solutions and control system integration. We serve industries like automotive, pharmaceuticals, food & beverage and energy.

We proudly operate 11 advanced manufacturing units in India and the USA. We have 18 branch offices across India and a strong international presence through our subsidiaries in the USA, Singapore, Dubai, Bangladesh and Indonesia. Recognized as a global system integrator giant by CFE Media, USA, and ranked among the top 15 in the world since 2015.

Cotmac empowers businesses worldwide to adopt Industry 4.0 technologies with precision, driving the future of automation.



Prof. Lalit Vashista
CEO & Founder

Diva Envitec

Contact Details:

Prof Lalit Vashista
Tel: +91 85914 14599
Email: lalit@aboutfilter.com

Address:

B-236, Oshiwara Industrial Center, Goregaon(W),
Mumbai - 400104, Maharashtra, India.
Tel: +91 80802 24873. Email: info@aboutfilter.com
Website: www.divaenvitec.com



**Engineering Today: Greener Tomorrow
Reviving Water Sustainably**

Diva Envitec Pvt Ltd, a process engineering company, is dedicated to pioneering innovation in industrial filtration, separation, and wastewater treatment. We focus on sustainable manufacturing by optimising processes, reducing energy consumption, and minimizing operational costs while maintaining a low carbon footprint.

Our key solutions include precious metal catalyst filtration, specialty process membrane technologies, efficient nanobubble applications, and advanced methods for removing toxic and refractory COD in API and industrial wastewater. We address these challenges through Wet Air Oxidation combined with our proprietary oxidising catalysts. We offer energy-efficient evaporation systems using MVR and solvent dehydration using zeolite membranes.

Our R&D is actively developing Direct Lithium Extraction (DLE) technologies and solutions for removing PFAS and PFOS from water. With a strong commitment to innovation, we approach industrial challenges with fresh perspectives, designing tailored solutions. At Diva Envitec, we collaborate closely with industries to drive efficiency, sustainability, and long-term value.



Jasvinder Singh
Founder & CEO

Dynamic Forge Components

Contact Details:

Curveer Singh, Vice President
Mobile: +91 98889 06994

Address:

E551, Focal Point Phase 6, Ludhiana 141010,
Punjab, India.
Tel: +91-98143-00994, +91-98889-06994
Email: info@dynamicforgecomponents.com
Website: www.dynamicforgecomponents.com



"Passion for Excellence"

Dynamic Forge Components, established in 2007, in Ludhiana is one of the leading manufacturers of Forged and Precision Machined automotive components like Water pump shafts, Water pump hubs, Wheel hubs, Wheel Stub Axles, etc. for domestic customers as well as export to European Countries.

We have a strong presence in the commercial vehicles and passenger cars segment. We are a quality-oriented reliable supplier with a motto to deliver the best quality products. We are also a tier II OEM supplier to established automotive and commercial vehicle brands like Maruti, TATA, Mahindra & Mahindra, Ashok Leyland, etc. through reputed tier I OEMs in Delhi NCR, Pune, Chennai & Bengaluru.

Our goals and priorities for 2025 are set with a completely fresh mindset. We thrive to provide our customers with the highest level of satisfaction by constantly learning from challenges and incorporating new technologies and IOT solutions to make our processes more efficient and our products defect-free.



Kishan Dhanuka
Managing Director

Lalbaba Engineering

Contact Details:

Maniratna Roy: +91 98319 73214
Poushali Das: +91 91471 75258

Address:

Head Office: 27, Shakespeare Sarani, 3rd Floor,
Kolkata - 700017, West Bengal, India.
Tel: +91 33 4008 0579
Email: branding@lalbabagroup.com
Website: www.lalbabagroup.com



Engineering a better tomorrow

Lalbaba Engineering, founded in 1964, is a Kolkata-based leading Indian engineering firm specializing in manufacturing of seamless tubes, forged components, and critical manufacturing for industries like oil, gas, and railways. Originally a micro-enterprise, Lalbaba has grown into a key supplier to Indian Railways and major OEM in last 60 years. With a global presence in over 20 countries, it serves clients across the USA, Europe, and the UAE.

In 2024, Lalbaba embarked on a historic Indo-German joint venture in seamless tubes, teaming up with 100-year-old German tube manufacturing giant Poppe+Potthoff. This first-of-its-kind international partnership combines Lalbaba's cutting-edge Continuous Cold Draw system with Poppe+Potthoff's legacy in high-pressure diesel injection tubing. The advanced facility in Haryana is set to redefine global quality standards while championing sustainability. Strengthening its global footprint, this collaboration positions Lalbaba at the forefront of seamless tube innovation.



G. Radhakrishnan
Managing Director

Sieger Spintech Equipments Pvt Ltd

Contact Details:

Anandhakumar, Vice President – Exports
+91 70100 76395, anandhakumar@siegerglobal.net
Sathyanandan P, Vice President - Sales
+91 9363455973, sathyanandan@siegerglobal.net

Address:

SF No. 49 Annur Road, Arasur Post,
Coimbatore - 641 407, India. Tel: +91 98947 51798
Email: enquiry@siegerglobal.net
Website: www.siegerglobal.net



Pioneering Automation Excellence

Sieger is a leading provider of automation solutions for the **Textile Industry, Car Parking Systems** and **Automated Storage**. Specialising in end-to-end automation, Sieger enhances efficiency, quality, and operational performance. With 600 skilled employees across three specialized divisions, the company is ISO 9001:2015, ISO 45001:2018, and ISO 14001:2015 certified, ensuring the highest standards in quality, safety, and environmental management.

Operating from a state-of-the-art 200,000 sq. ft. manufacturing facility, Sieger integrates cutting-edge technology in a 100% paperless factory to ensure streamlined production. Its strong R&D division, recognised by the DSIR, Government of India, drives continuous innovation to meet evolving industry demands.

With a strong track record of successful installations worldwide Sieger continues to set benchmarks in automation through its products such as **Cone-to-Container (C2C), Automated Storage Solutions, and Intralogistics, Roving Transport Systems, Yarn Conditioning Plants (YCP), and Automated Cone Packing Machines (APAC).**



**PUT YOUR SUCCESS
IN THE SPOTLIGHT!
ADVERTISE WITH US!**

Feature your organisation and highlight your success stories in our quarterly business magazine. Connect with our extensive network of members, gain visibility, and strengthen your brand presence among key industry leaders.

For more details, contact:

Jennifer D'Lima
jennifer.dlima@indo-german.com

Genelle Fernandes
genelle.fernandes@indo-german.com

Indo-German Chamber of Commerce: Pioneering Partnerships at Advantage Assam 2.0

In a significant stride towards fostering bilateral trade and investment, the Indo-German Chamber of Commerce (IGCC) proudly played a pivotal role as the lead facilitator at the 'Advantage Assam 2.0 Investors' Summit', held in Guwahati from February 25-26, 2025. With Germany as the prominent partner country at this prestigious event, the summit witnessed not only the commitment of the Indian and German governments but also a robust platform for exploring mutual business opportunities.

The summit was inaugurated by **Shri Narendra Modi**, the Prime Minister of India, alongside **Dr. Himanta Biswa Sarma**, the Chief Minister of Assam, setting a tone of collaboration and innovation. Representing Germany, the official delegation was led by **Tom Reiner**, the Regional Director, Eastern Region of the Indo-German Chamber of Commerce, in collaboration with the German Consulate General in Kolkata. This partnership underscores the commitment to elevate bilateral relations through strategic dialogue and cooperation. The Advantage Assam 2.0 summit was not merely an event; it was a stepping stone towards a deeper, more integrated relationship between Germany and Assam.

The German delegation, comprising notable representatives such as **Suchismita Roy** from Bayer Crop Science and **Abhishek Nath** from Lidl Asia Pte Limited, embarked on a fact-finding mission aimed at



identifying investment opportunities and sourcing avenues for Assam's unique products—such as tea, bamboo, and sustainable materials—to the discerning German consumer market. Equally, the summit facilitated discussions on integrating German products into the Assamese market, thereby fostering a two-way trade relationship.

A highlight of the delegation's visit

was the engaging discussions held with **Bimal Borah**, Hon'ble Minister of Industries, Commerce & PE Department, Assam. His recognition of IGCC's activities and appreciation for Germany's role as a partner country signal a promising future for collaborative ventures between Assam and Germany. Furthermore, exchanges with **Anamika Tewari**, Labour Commissioner of Assam,

EXPERIENCE EXCELLENCE

TESTED & PROVEN Design

Designed for thrust loads upto 75 tons

Designed for Speeds upto 1800 rpm

Multiple Configurations possible



- FOR UNI- & BI- DIRECTION OPERATIONAL APPLICATIONS.
- WATER COOLED (USING HEAT EXCHANGER) & EXTERNALLY LUBRICATED CONFIGURATIONS.
- HYDROSTATIC JACKING ARRANGEMENT POSSIBLE AS PER REQUIREMENT.
- ADJUSTABLE GUIDE PADS.



OMEGA RENK BEARINGS PVT. LTD.

Anand Nagar Raisen Road
Bhopal 462021 M.P. (INDIA)
Tel: 0091 755 2685250, 2752573
info@omegarenk.com
www.omegarenk.com

IGBM 01, 2025

focused on skilled migration pathways, aiming to connect Assam's talented workforce with opportunities in Germany.

The German delegation also convened a productive meeting with **Atul Bora**, Minister of Agriculture, Horticulture, Government of Assam, alongside **Aruna Rajoria**, Commissioner & Secretary of Agriculture, Information & Public Relations. This collaboration highlights the potential for advancements in agriculture and sustainability, leveraging German expertise for the development of Assam's agrarian landscape.

The German Business Lounge, provided by the Government of Assam, served as an ideal venue for extensive business meetings. The impressive turnout and enthusiastic participation at the Business Lounge reinforced the strong interest from Assamese businesses in exploring partnerships with German firms. The IGCC is poised to play a pivotal role in steering future engagements with the Assam government, facilitating follow-up meetings, and ensuring that our members leverage the potential of the North-Eastern states of India as a hub for bilateral investments and product sourcing for the German consumer market.

As we look forward to nurturing these burgeoning relationships, it is essential to acknowledge the support of the German Consulate General in Kolkata for organising this summit. The Chamber remains committed to its foundational mission since 1956—to be the first point of contact for all Indo-German bilateral trade, providing indispensable support and resources



to our members.

In conclusion, Advantage Assam 2.0 has laid the groundwork for transformative partnerships, and the Indo-German Chamber of Commerce is dedicated to driving these initiatives forward, ensuring that both Germany and Assam can reap the benefits of this collaborative endeavour. We eagerly anticipate the fruitful outcomes that will emerge from these deliberations and look forward to further strengthening the ties that bind our nations. The momentum generated at this summit is just the beginning,

and we are excited about the future prospects of collaboration and growth that lie ahead.

The Chamber is intensifying its focus on the north-eastern states, recognising their strategic importance in the broader Indo-German economic narrative. Looking ahead, we are excited to announce that the next German delegation, in cooperation with the German Embassy in Delhi and the German Consulate General, is set to participate in the 7th Act East Business Show in Shillong, Meghalaya, from March 25 to 27, 2025.



MOBILE WORKSTATION

Dimension: L 46" x W 18" x H 37"
Load Capacity: 1200 lbs



ADJUSTABLE STOOL

Dimension: L 16" x W 16" x H 24"
Load Capacity: 300 lbs



PLASTIC SAWHORSE

Dimension: H 32" x W 27"
Load Capacity: 1200 lbs



MITER SAW STAND

Dimension: L 60" x W 24" x H 35"
Load Capacity: 300 lbs



METAL SAWHORSE

Dimension: L 43" x W 5.5" x H 30"
Load Capacity: 1100 lbs



Indo-German Cooperation in Renewable Energy

At Rising Rajasthan Global Investment Summit 2024



The Country Session on 'Indo-German Cooperation in Renewable Energy Sector – Current Initiatives and Future Opportunities' at the Rising Rajasthan Global Investment Summit 2024 showcased the immense potential for collaboration between India and Germany in renewable energy. The session, held on 10th December at JECC, Jaipur, emphasised Germany's expertise in solar energy, green hydrogen, and renewable energy investments, paving the way for impactful partnerships in the sector.

The session underscored the mutual benefits of Indo-German collaboration in the renewable energy sector."

The session provided an opportunity for industry leaders, policymakers, and experts to explore key areas for cooperation, particularly in advancing Rajasthan's renewable energy landscape. Discussions focused on investment opportunities, technological advancements, and policy frameworks that could drive the growth of sustainable energy solutions in the state.

The session was graced by **Jogaram Patel**, Minister of Parliamentary Affairs, Law and Legal Parliamentary Affairs &



Anniversary
25



Diversity in Service and Product Portfolio

EMUGE-FRANKEN India Pvt. Ltd., is an end to end solution provider for complete threading and milling solutions in India. We offer Taps, Carbide Thread Milling tools, Tap Holders & Milling tools and have extended

our product range to offer special Clamping Systems for workpiece clamping applications in India. Contact us for more details.

EMUGE-FRANKEN India Pvt. Ltd.

🏠 Gat no. 91, 92, 93 & 128
At Post Kondhanpur, Taluka Haveli
Pune - 412205, Maharashtra. INDIA
☎ +91-20-39310000 / +91-9552562501 / 503
✉ marketing@emuge-franken.in 🌐 www.emuge-franken.in



IGBM 01, 2025



Legal Counsel Office, Justice, Government of Rajasthan, as the Chief Guest. His presence underscored the state's commitment to enhancing its renewable energy sector through strategic international partnerships.

The speakers at the session:

- **Ms. Arti Dogra**, IAS – Chairman of Rajasthan Discoms & MD, Jaipur Vidyut Vitran Nigam Limited, who highlighted administrative strategies for integrating renewable technologies.
- **Dr. Stephan Hesselmann** – Minister Counsellor for Economic Affairs, German Embassy New Delhi, who offered insights into Germany's role in renewable energy investments.

- **Mr. Pradip Kumar Das** – Chairman and Managing Director, IREDA Ltd., who discussed financial incentives for green energy projects.
- **Mr. Ashok Ramachandran** – Whole-time Director & COO, JSW Energy Ltd., who provided an industrial perspective on large-scale renewable initiatives.
- **Ms. Shivani Chaturvedi** – Regional Director, Indo-German Chamber of Commerce, who emphasized the broader trade and investment benefits of Indo-German collaborations.

EXPERT PANEL DISCUSSION

A panel of distinguished experts engaged in a thought-provoking discussion on the future of Indo-

German cooperation in renewable energy. The panellists included:

- **Ms. Seema Bhardwaj** – Director, Germany Trade & Invest, who provided trade policy insights.
- **Mr. Deepak Madhukar Zade** – Assistant Vice President, TUV SUD South Asia Pvt Ltd., who discussed quality and safety in renewable energy projects.
- **Mr. Kuldeep Sharma** – Senior Advisor, Indo-German Energy Program, GIZ India, who presented strategic initiatives for collaboration in this sector.

The discussion was moderated by **Farhad Vania**, Senior Portfolio Advisor, GIZ India, who guided the conversation on actionable steps to enhance Indo-German cooperation in sustainable energy.

PAVING THE WAY FOR A GREENER FUTURE

The session underscored the mutual benefits of Indo-German collaboration in the renewable energy sector. With Rajasthan emerging as a key player in India's green energy transition, partnerships with Germany could drive technological innovation, infrastructure development, and investment in solar energy, green hydrogen, and other renewable resources.

The Rising Rajasthan Global Investment Summit 2024 served as a platform in fostering global partnerships for sustainable energy. The insights shared during the session will play a crucial role in shaping the future of Indo-German collaborations, ensuring a cleaner, more sustainable energy landscape for both regions.



Asset Renting for Every Need



Predict and Plan Future Cash-flows



Value Enhancing Structures



Conserve Cash, Variablise Cost

India | North America | Brazil | Europe | UK | Australia

Business Roundtable on Green Hydrogen at the The Smarter E India, Gandhinagar



The Indo-German Chamber of Commerce (IGCC), in collaboration with the Indo-German Energy Forum (IGEF-SO), organised the first Business Roundtable of 2025 on 'Green Hydrogen' on the sidelines of The Smarter E India/ InterSolar India on 12th February in Gandhinagar, Gujarat. The roundtable brought together key stakeholders to discuss market developments and opportunities for Indo-German Green Hydrogen projects.

Shivani Chaturvedi, Regional Director, IGCC, welcomed the participants and set the tone for the roundtable. She highlighted the German industry's anticipated demand for energy imports,

including green hydrogen and its derivatives, estimated at 1.5 – 2.7 MTPA, and emphasized the potential for Indo-German collaboration in this sector.

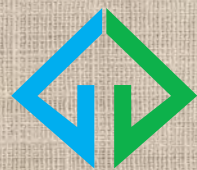
Anirban Kundu, IGEF-SO, informed participants about the second call for Expression of Interest for the €270 million PtX Development Fund by the Federal Ministry for Economic Cooperation and Development (BMZ). The Fund aimed to promote green hydrogen and its derivatives in developing and emerging economies, including India, by offering non-reimbursable grants to industrial-scale projects at various stages along the green hydrogen value chain to trigger

further investments. More information was available at www.ptx-fund.com.

Arjun Mehta, Advisor, GH2 India, provided an overview of India's National Green Hydrogen Mission. He spoke about GH2 India's role in catalysing investments in green hydrogen projects in India by bringing together the government, industry, and financial institutions.

Kumar Abhishek, IGEF-SO, briefed the audience about the German funding schemes for green hydrogen projects. He laid out the objectives of Germany's 'National Hydrogen Strategy' and the grant funding initiatives such as the International Hydrogen Ramp-Up Program (H2Uppp). He also explained the H2Global-Hintco's double-sided auction-based market-making instrument, supported by the German Federal Ministry for Economic Affairs and Climate Action (BMWK), in catalysing the hydrogen and derivatives market worldwide. The second round of the H2Global auction, amounting to €3 billion, was already approved by the EU.

The presentation was followed by detailed discussions, moderated by **Clemens Antretter**, with senior industry representatives from ports, renewable energy developers, associations, energy companies, research organisations, and startups. The session fostered a valuable exchange on funding opportunities to accelerate Indo-German collaboration in the sector.



GLOSTER LIMITED

Leading manufacturer of yarns, fabrics and made ups with 100% eco-friendly jute and jute blends. An ISO9001, ISO14001, OHSAS45001, SA8000, OEKOTEX and GOTS certified company. Also IMO certified organic jute cultivator and user.

Pioneer in sustainability endeavors in Jute Industry. Gloster Limited - unit Ananya is the recipient of Gold Medal for sustainability under Ecovadis platform.

Our Products: Jute and other bast fibres, blended yarns, agro textile fabrics. Technical textiles including jute geotextiles, insulation fabrics/pads and commodity packing clothes and bags. Value added products like dyed, laminated and chemically treated yarns/fabrics; carpets/mats, shopping/grocery bags and customised articles



100% Jute yarn and blends



Jute belt



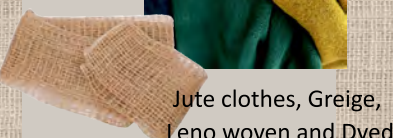
Jute mats



Agro textile applications - Agro tape, Plantation tub and Sapling pouch



Jute carpet and Lenoleum backing clothes, laminated fabrics



Jute clothes, Greige, Leno woven and Dyed



Technical textiles - Geo textile fabric. Nonwoven insulation pad. Commodity bag



Customised products. Box bag, Insulation bag, Backpack



Shopping bags, Fancy Bags

Contact:

- info@glosterjute.com
- Mr. B.L.Atal (General Manager-Sales). Mobile - +91-9674175751. Email- marketing@glosterjute.com
- Address : 21 Strand Road. Kolkata- 700001, India

Women in Green Hydrogen (WiGH) Expanded to South Asia



On 12th February 2025, the Women in Green Hydrogen (WiGH) South Asia Chapter

was officially launched, marking a significant step towards fostering inclusivity and diversity in the region's hydrogen sector.

Since its inception, WiGH has grown into a global platform, connecting over 1,100 women professionals across more than 75 countries. Through mentorship programmes, networking events, and policy advocacy, the network has been instrumental in amplifying women's voices in green hydrogen.

With India's National Green Hydrogen Mission, Nepal's hydropower potential, and emerging clean hydrogen initiatives

Panelists:

- **Dr. Rashi Gupta** (Batterywali Dr. Rashi Gupta) – Vision Mechatronics
- **Arpit Sharma** – CEO, Skill Council for Green Jobs
- **Phoolvi Agarwal** – HyOn Energy
- **Dr. Chitra Rajagopal** – IIT
- **Pooja Bose** – Wert International (Moderator)

in neighbouring countries, South Asia is poised to become a key player in the global hydrogen economy. However, for this transition to be truly sustainable, it needs to be inclusive—and women's expertise in research, policymaking, finance, and project execution is vital to the industry's success.

The launch event featured a panel discussion on "Navigating Challenges and Unlocking Opportunities for Gender Inclusion in India", bringing together industry leaders and changemakers to discuss pathways for greater diversity and leadership in the sector.

The WiGH South Asia Chapter launch was supported by the Indo-German Energy Forum (IGEF-SO), the International Hydrogen Ramp-Up Program (#H2Uppp), the Indo-German Chamber of Commerce, The smarter E India, and HyOn Energy.

Together, stakeholders are taking a step forward in building a more diverse, connected, and inclusive green hydrogen community in South Asia.



Corporate Bank

Those who see opportunities in problems are dreamers. Or with the right bank.

When it's time to capitalise on transforming your business, you need a partner with dedicated expertise and tailored solutions to match your vision. As the Global Hausbank, we help businesses of all sizes and scopes to turn transition journeys into competitive advantages.

corporates.db.com

Deutsche Bank



This advertisement has been approved and/or communicated by Deutsche Bank AG and appears as a matter of record only. The services described in this advertisement are provided by Deutsche Bank AG or by its subsidiaries and/or affiliates in accordance with appropriate local legislation and regulation. © Copyright 2025 Deutsche Bank AG.



CFO Meet 2025

Emerging trends, regulatory challenges, and opportunities in India's dynamic business landscape

This event was proudly presented in collaboration with **Trilegal, Lakshmikumaran & Sridharan Legal**, and **Rödl & Partner** as *Knowledge Partners*, and **Kotak Bank** as the *Banking Partner*.

The role of CFOs has expanded significantly, evolving from traditional financial oversight to becoming key drivers of corporate strategy. In today's fast-changing environment, CFOs must navigate complex economic trends, regulatory frameworks, and technological advancements to steer their organisations toward growth and resilience.

ECONOMIC OUTLOOK 2025 & BEYOND

CFO Meet 2025 was opened by **Kalpesh Saraf**, Western Region Director, IGCC, who welcomed **Upasna Bhardwaj**, Head of Economic Research at Kotak



Mahindra Bank. Specialising in domestic and global macroeconomic analysis, she provided an insightful presentation on Economic Outlook 2025 & Beyond: Changing India.

She highlighted that GDP growth is expected to remain stable at around 6.5%, driven by

Key Discussion Points:

- Taxation, Tax Incentives, Royalty & Fees, Dispute Resolution – Elevating Financial Strategies
- Building Financial Resilience
- Litigation under Direct Tax & Customs Law
- Navigating Growth and Risks in India's Economy

consumption and public sector capital expenditure. The discussion focused on government incentives such as the Production-Linked Incentive (PLI) scheme, fostering manufacturing growth. She also addressed fiscal consolidation, the formalisation of the economy, and India's increasing global

TIME TO MAKE SUSTAINABILITY AN ESSENTIAL ASPECT OF YOUR COMPANY

INTRODUCING DHL'S GOGREEN PLUS

A CARBON INSETTING SHIPPING SOLUTION TO SATISFY YOUR CUSTOMER'S EXPECTATIONS!

WE USE SUSTAINABLE AVIATION FUEL

THAT REDUCES UP TO 80% OF CARBON EMISSIONS COMPARED TO TRADITIONAL JET FUEL

AND YOU CAN CLAIM THE BENEFIT AS WE PROVIDE AN SGS ACCREDITED CERTIFICATE!



PARTNER TODAY

IN 2024, OVER 4000+ COMPANIES CHOSE DHL'S GOGREEN PLUS. WHEN ARE YOU JOINING THE GREEN REVOLUTION?

IGBM 01, 2025

competitiveness. However, she cautioned about potential risks arising from global uncertainties, policy shifts, and geopolitical developments.

DECODING UNION BUDGET 2025

Following Upasna's presentation, the event moved on to a highly anticipated session on Decoding Union Budget 2025, led by **Komal Dani** (Partner, Trilegal), along with **Yash Varmani** and **Samyak Jain** (Senior Associates, Trilegal).



They provided an in-depth analysis of key tax and regulatory changes, including:

- Direct and indirect tax reforms, such as revised tax slabs, increased rebate limits, and reduced surcharges for high-income earners.
- Business-friendly amendments, including tax benefits for startups, streamlined merger regulations, and relaxed TDS/TCS provisions.
- Enhancements in the International Financial Services Centre (IFSC), updates in transfer pricing rules, and simplifications in GST compliance.

This session aimed to help CFOs navigate the evolving financial and regulatory landscape for 2025.



PANEL DISCUSSION: REDEFINING GROWTH STRATEGIES – M&A, PARTNERSHIPS

The event transitioned into an insightful panel discussion moderated by **Dipali Joshi**, Head of Strategy Advisory at Rödl & Partner. With 16+ years of experience, she specializes in market analysis, India entry strategy, M&A, and contract manufacturing for international companies expanding into India. The panel featured:

- **Prathamesh Khedekar**, CFO, Fuchs Lubricants (India) Pvt. Ltd.
- **Manik Chhabra**, Head of Global Corporate Coverage for India & Sri Lanka, Deutsche Bank

The discussion explored India's evolving business environment and growth potential. Prathamesh Khedekar shared insights on India's rising prominence as an attractive market, highlighting IMF projections that position India as the world's 3rd largest economy by 2027. He spoke about India's global perception and increasing

investor confidence.

Manik Chhabra discussed the shifting investment trends in India and the missing elements needed to solidify India's growth trajectory. Both panellists provided valuable perspectives on:

- The role of mergers and acquisitions (M&A) in driving business expansion
- The importance of localisation for foreign companies
- Key strategies for businesses to succeed in India, emphasising partnerships, M&A, and financial resilience

PANEL DISCUSSION: MANOEUVRING THE COMPLEX WEB OF LITIGATION

The event concluded with a second-panel discussion on "Manoeuvring the Complex Web of Litigation under Direct Tax, Transfer Pricing, and Customs Laws". This session was led by **Sudin Sabnis**, Partner, Lakshmikumaran & Sridharan Attorneys, with an expert panel comprising:

- **Heena Shah**, Tax Head, Tech Mahindra

HERRENKNECHT SUPPLYING INDIA'S LARGEST TUNNEL BORING MACHINES

Herrenknecht is proud to contribute to India's rapidly expanding underground infrastructure by supplying two Mixshields for the Mumbai Coastal Road Project North. These massive TBMs, with a diameter of 15.6 m -the largest ever used in the country-, will tackle the challenging geology of Mumbai's Versova-Dahisar Link Road, part of a transformative project aimed at reducing travel time by 70% for millions of commuters. Manufactured locally in Chennai with core components from Germany, Schwanau, these machines are a testament to sustainable engineering and German-Indian collaboration.

Herrenknecht India, a dynamic market for sustainable infrastructure and recently secures contract to deliver Tunnel Boring Technology for road tunnels at Mumbai Coastal Road Project North. This project highlights Herrenknecht's strong commitment for tunnel construction. Alongside projects such as the Metro in Delhi and Chennai or the Rishikesh-Karnprayag railway tunnel project in Uttarakhand, the VDLR project marks another milestone that reinforces the company's position in the country. With its office in Delhi, a production facility in Chennai, and close partnerships with local stakeholders, Herrenknecht is driving the development of underground infrastructure. The company currently employs around 200 people in the region.

Herrenknecht is the technology and market leader in the area of mechanized tunnelling systems. Since 2007 in India, it is the only company worldwide, which delivers cutting-edge tunnel boring machines for all ground conditions with diameters ranging from 250mm to 19m. Innovative Herrenknecht tunnelling systems are paving the way for new metro lines and efficient supply and disposal systems in India-economically, quickly and safely. Herrenknecht is playing a pivotal role in shaping India's infrastructure landscape in 2025 and beyond, involvement in these projects goes beyond mere construction; it reflects the company's commitment to delivering sustainable and efficient infrastructure solutions, exemplifying a convergence of sustainability, technology, collaboration, innovation, and vision in shaping India's infrastructure landscape. With the application of advanced tunneling techniques and environmentally sustainable practices, Herrenknecht ensures minimal disruption to the ecosystem and nearby communities.

For Equipment Sales and Service

Nitin Garg - garg.nitin@herrenknecht.com
Tel (Mobile): (+) 91 98 116 02141
Saurabh Raju - saurabh.raju@herrenknecht.com
Tel (Mobile): (+) 91 96 500 37117

Herrenknecht India Pvt. Ltd.

No.11, Alinjivakkam Village, Ponneri Taluk, Thiruvallur District,
Chennai – 600 067 INDIA www.herrenknecht.com



IGBM 01, 2025

CHAMBER'S NEWS
INDO-GERMAN BUSINESS MAGAZINE

71



- **Rakesh Nathwani**, Director – Finance, Deutz India
- **Devesh Shah**, Head – Accounts, Bayer CropScience Ltd.
- **Ratan Jain**, Executive Partner – Customs, Lakshmikumaran & Sridharan Attorneys

Key discussion points included:

- Top challenges in direct tax and customs litigation faced by companies
- Efficacy of alternate dispute resolution mechanisms
- Realities of demand recovery and tax assessments
- Implications of the new TP Block Assessment introduced in Budget 2025
- Aligning tax positions across different authorities (Income Tax, Customs, and GST)
- Best industry practices for handling litigation – balancing in-house and outsourced approaches
- Insights on handling tax investigations, with key dos and don'ts

A SUSTAINABLE GESTURE

As a token of appreciation, **Ute Brockmann**, Deputy General, IGCC presented all partners and speakers with a certificate featuring a QR code. Upon scanning, recipients received a picture of a tree planted in their name – a step toward a greener planet.

The CFO Meet 2025 successfully brought together industry leaders, financial experts, and corporate strategists to discuss emerging trends, regulatory challenges, and opportunities in India's dynamic business landscape.



SCHWING Stetter (India) Private Limited

Reg. Off. - F71/72 SIPCOT Industrial Estate, Irungattukottai, Sriperumbudur, Kanchipuram District - 602117, Tamil Nadu, India.
Contact/Whatsapp- +91 91766 01882 | Toll Free : 1800 123 1479 | Email : enquiry@schwingstetterindia.com | Website : www.schwingstetterindia.com

SCAN FOR ENQUIRY



IGBM 01, 2025

CHAMBER'S NEWS
INDO-GERMAN BUSINESS MAGAZINE

73



Union Budget 2025 – Major Impacts and Opportunities

The Indo-German Chamber of Commerce, Chennai in association with our Knowledge Partners ASA & Associates LLP., organised a seminar on 'Indian Union Budget 2025-26' in Chennai on 4th February 2025 at Hotel Raintree. This session was designed to present a synopsis & post-budget analysis of the New Budget proposals as well as a short view of 'India Entity – Tax Regime & Funds Repatriation'.

Mallikarjuna, Regional Director of IGCC welcomed all the participants and thanked Knowledge Partner ASA & Associates, **Giridharan**, Practice Head – Chennai for organising this knowledge session for IGCC members in Chennai.

The Indian Budget, announced every year on the 1st of February, continues to play an important role in shaping corporate plans and strategies for companies. This seminar provided insights and reviews of the Budget 2025

announcements made by the honourable Finance Minister **Nirmala Sitharaman** and their impact on companies operating or wishing to operate in India, with a focus on key Direct and Indirect Tax changes. **Sunil Arora**, National Head – Taxation, ASA & Associates LLP spoke about the increase in tax rebate to Rs. 12

lakh. *"Slab rate reductions apply to everyone. The expectation is that the money saved by taxpayers will flow back into the economy through consumption, savings, or investment."* Sunil Arora also highlighted how this budget, in continuation of the previous ones, will support German and Indian companies in their development, as well as the new opportunities it will bring.

G Viswanathan, Director –



Indirect Taxes at ASA & Associates LLP made a detailed presentation on India Entity – Tax Regime & Funds Repatriation. He shared information on the various facets of repatriation rules for NRIs, guided by the Foreign Exchange Management Act (FEMA) and RBI guidelines.

It was a well-attended event with excellent knowledge sharing between ASA Associates and participants from IGCC member companies.

**JUNGHEINRICH IS
AMONG THE TOP
1% OF THE
WORLD'S MOST
SUSTAINABLE
COMPANIES**

JUNGHEINRICH

IGBM 01, 2025

CHAMBER'S NEWS
INDO-GERMAN BUSINESS MAGAZINE

75



Certified 4 times in a row

www.jungheinrich.in



CII Mystic South, Global Linkages Summit 2025, Chennai

The Confederation of Indian Industry (CII) organized the second edition of Mystic South Global Linkages

Summit 2025 on 10th & 11th February 2025 in Chennai at Hotel Taj Coromandel. The Indo-German Chamber of Commerce organised the German Country Session presentations at this summit. **Dr. Kathrin Misera-Lang**, interim Consul General of the Federal Republic of Germany in Chennai inaugurated the event with a welcome address wherein she highlighted that, bilateral relations between India and Germany have been traditionally strong due to commercial, cultural, and technological co-operation. Approximately 50,000 Indian students are currently studying in German universities across Germany making them the largest group of international students in the country. Germany is focusing on green and sustainable development, green hydrogen, solar/renewable partnership, agro-ecology, forest landscape restoration, and working



Germany is focusing on green and sustainable development, green hydrogen, solar/renewable partnership, agro-ecology..."

with many Indian companies jointly on these topics for mutual benefit.

Ranjit Pratap, Chairman of the Southern Region IGCC presented the keynote address and shared information about the bilateral trade between India and Germany, FDI from Germany to India and key focus sectors that have a large opportunity for business.

Mallikarjuna, Regional Director of IGCC, Chennai moderated the Industry Leaders presentation session. We had three leading German companies making

presentations followed by a question-and-answer session. **Thomas Dose**, Managing Director for BMW, Chennai Plant presented on "The Future of Electric Mobility". He shared his vision of how electric mobility is evolving and the areas in which BMW is working. He mentioned the excellent response they have received for the new launch of BMWiX1 which is built at the Chennai plant. **Nitin Garg**, Director Business Development for Herrenknecht India shared his views on "To sustain India's Tunnel Infrastructure, Need of the Hour is Local Manufacturing of Tunnel Boring Machines." **Rajeev Shalia**, President and Head of Research and Development, Schwing Stetter India shared a presentation on "Future Technology in Construction & off-Road Equipment". It was quite an interactive session attended by delegates from leading companies across India. Regional Director, Mallikarjuna thanked CII for giving IGCC an opportunity to represent the Germany Country Session at this prestigious Mystic South Event.



Intelligent Valve Engineering for Your Process from a Single Source

SAMSON CONTROLS PVT. LTD., a wholly owned subsidiary of SAMSON AG, Germany, manufactures and supplies control equipment, such as automated and non-automated control and on/off valves, positioners (conventional and smart), self-operated pressure and temperature regulators, differential-pressure-type level gauges.

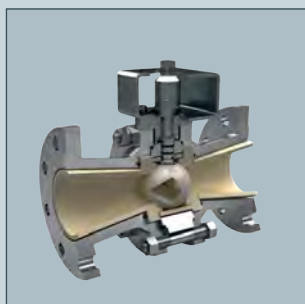
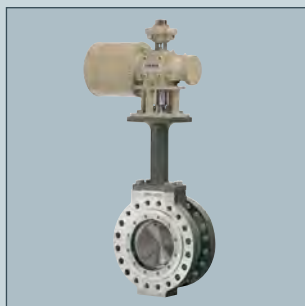
In addition, SAMSON CONTROLS provides engineering expertise for special engineered valves by SAMSON's associated companies as well as by other companies.

SAM GUARD®
powered by Precognize

SAMSON is pleased to introduce 'SAMGUARD' powered by Precognize

SAM GUARD is used for predictive maintenance on several thousand valves and other field devices in industrial plant operation and complements the SAM DIGITAL solutions portfolio.

SAM stands for "SAMSON ASSET MANAGEMENT". The SAM DIGITAL solutions combine decades of experience and SAMSON's in-depth understanding of processes with the latest technologies and smart information. Customers are offered true added value by the resulting optimization of their processes.



SAMSON CONTROLS PVT. LTD.

Factory: D-281, MIDC Ranjangaon, Taluka Shirur, District Pune 412220, Maharashtra, India
Phone: +91 2138 665600 · Fax: +91 2138 665666

Corporate Office (PUNE): 604, P-3, Pentagon Building, Magarpatta City, Hadapsar, Pune 411028, Maharashtra, India
Phone: +91 20 67246600 · Fax: +91 20 67246666

E-mail: info@samsoncontrols.net, sales@samsoncontrols.net · Internet: www.samsoncontrols.net

A01190IND



Celebrating Collaboration: Germany Partner Country at Bengal Global Business Summit 2025

The vibrant city of Kolkata recently played host to the much-anticipated Bengal Global Business Summit 2025 (BGBS'25), where Germany proudly stood as the partner country. Organised by the Indo-German Chamber of Commerce (IGCC), this year's summit, held at the Biswa Bangla Mela Prangan, served as a powerful testament to the deepening economic ties between Germany and India, a relationship that has thrived since the establishment of the Chamber in 1956.

The German Country Session, which took place on 6th February, attracted significant interest from

our members and industry stakeholders, showcasing the commitment of both nations to foster bilateral trade and investment. The session was graced by eminent speakers, including **Deepak Mukhi** from FICCI, **Georg Enzweiler**, Deputy Head of Mission at the German Embassy in Delhi, and **Tom Reiner**, Regional Director of the Indo-German Chamber of Commerce. West Bengal's own **Prabhat Kumar Mishra**, IAS, Additional Chief Secretary of the Finance Department, emphasised the state's readiness to embrace German investment and collaboration.

INSIGHTS FROM THE PANEL DISCUSSION

One of the highlights of the session was the stimulating panel discussion moderated by **Seema Bhardwaj**, Director of India Germany Trade & Invest. The panel featured industry leaders such as **Ambika Banotra** from NRW.Global Business, **Debasish Mukherjee** from Wienstroth Wärmebehandlungstechnik GmbH, and **Tanvir Ahmed** from Harbauer India. Their insights illuminated the myriad opportunities for collaboration across various sectors, reinforcing the importance of partnerships in navigating today's rapidly

YOU THINK IT.

Handover within 8 months (8000 Sq. Mtr.)



Handover within 12 months (11000 Sq. Mtr.)



Handover within 10 months (20,000 Sq. Mtr.)

Actual Images.

WE BUILD IT.

TURNKEY | CIVIL | PEB | MEP

Full Service Industrial Contracting



Vast Experience
with German
Companies

Reach out to us at :
+91 89561 37408
info@ssepl.biz
www.ssepl.biz

301, Kotibhaskar Business Court, Kothrud, Pune 411038.

IGBM 01, 2025

CHAMBER'S NEWS
INDO-GERMAN BUSINESS MAGAZINE

79



changing global business landscape.

Following the formal proceedings, an engaging networking session provided a platform for attendees to forge new connections and explore potential collaborations.

SHOWCASING GERMAN EXCELLENCE

The Indo-German Chamber of Commerce was also responsible for curating an impressive German Pavilion that highlighted the robust presence of German businesses in West Bengal. During the summit, we had the honour of hosting **Georg Enzweiler** and **Barbara Voss**, the Consul General of the Federal Republic of Germany to India, at the pavilion. This initiative showcased Germany's commitment as a partner country and allowed various esteemed delegates and organisations to present their innovative solutions and services.

Among the notable participants were ProRecognition, represented by **Denise Eichhorn** and Harbauer India, led by **Tanvir Ahmed**. Other notable participants included NRW.Global Business, Hamburg Representation Mumbai, the University of Europe for Applied Sciences, VDMA India, and Wienstroth Furnaces India.

MEMBER COMPANY VISITS: A TESTAMENT TO COLLABORATION

The summit also provided an opportunity for our distinguished German delegation to visit member companies, further focusing on the spirit of collaboration. One of the significant points was the visit to Harbauer India's Water ATM project, which plays a crucial role in providing clean water solutions in rural India. Harbauer India, a wholly-owned subsidiary

of Harbauer GmbH, specialises in advanced water treatment technologies and has made significant strides in addressing water quality issues across West Bengal.

The efforts of Harbauer India were recognised with the Sustain Awards 2022 by the Indo-German Chamber of Commerce and GIZ, underscoring their commitment to sustainable development.

Additionally, the German delegation was invited to tour the Linde India factory, where they witnessed firsthand, the cutting-edge technologies and practices that Linde employs in its operations. This visit reinforced the importance of collaboration between German and Indian companies in driving innovation and excellence.

A COMMITMENT TO GROWTH AND INNOVATION

As we reflect on the success of the German Country Session at the Bengal Global Business Summit 2025, it is clear that the Indo-German Chamber of Commerce remains committed to serving as the leading platform for all Indo-German business and trade activities. Our role in facilitating meaningful connections and fostering collaboration has never been more vital, especially in today's dynamic global economy.

Together, we can unlock new avenues for growth and innovation, paving the way for a prosperous future for both nations. The Indo-German Chamber of Commerce looks forward to continuing its mission of enhancing bilateral ties and driving sustainable business practices in India and Germany.

Baden-Württemberg Strengthens Business Ties with India

The Machinery and MedTech delegation from the State of Baden-Württemberg, embarked on a visit to India from 2nd until 8th February 2025, exploring opportunities for collaboration in manufacturing, automation, and medical technology in Delhi, Pune, and Mumbai. Led by Minister Dr. Nicole Hoffmeister-Kraut (MdL), the delegation consisted of representatives of companies, research institutes and business associations.

DELHI: INDUSTRY INSIGHTS & DIPLOMATIC ENGAGEMENT

The visit kicked off in Delhi with a comprehensive briefing on India's economic and business outlook and the importance of Indo-German collaborations, with insights from Minister **Dr. Nicole Hoffmeister-Kraut**, **Georg Enzweiler**, Deputy Chief of Mission- German Embassy New Delhi, **Werner Kemper**, Director South & South East Asia- Germany Trade & Invest (GTAI) and **Shivani Chaturvedi**, Regional Director- Indo-German Chamber of Commerce (IGCC), New Delhi.

After that, the delegates from the Machinery group visited Woco Tech Elastomere Noida Ltd. The company is a leader in automotive solutions, where the delegation explored their innovations in polymer technology and automotive components. This was followed by an interesting visit to Bucher Hydraulics, learning more about their sustainability practices, including solar panels and rainwater



harvesting systems. Thereafter, the Machinery delegation visited the facility of JBM group, a key player in automotive manufacturing, discussing the future of Indo-German collaborations.

In parallel, the MedTech Delegation focused on India's rapidly evolving healthcare and medical technology sector, engaging with industry leaders to explore market opportunities.

The group visited Medanta Hospital in Gurgaon, a leading healthcare facility with insightful discussions with **Dr. Naresh Trehan** on advancements in medical technology. After that they explored Primus Hospital which is known for its state-of-the-art infrastructure and patient-centric care. The group also participated

in an Industry Roundtable, with leaders from Fresenius Medical Care, B. Braun Gruppe, Dürr Dental India Pvt Ltd, Merck Healthcare and representatives from the German Embassy, GTAI, Global Project Quality Infrastructure. IGCC shared insights into market trends and opportunities.

A reception hosted by the German Ambassador offered high-level networking opportunities to foster stronger diplomatic and business ties between Germany and India.

PUNE: INNOVATION IN INDUSTRY & HEALTHCARE

The next leg of the trip started in Pune. The machinery delegation visited some of the leading manufacturing companies. This included a visit to Bharat Forge

in Mundhwa, which is a hub of precision engineering and advanced manufacturing, shaping the future of automotive, aerospace, and industrial solutions. Next was a visit to Marquardt Inc. in Hinjewadi, learning more about their cutting-edge technology and smart solutions driving automation.

The group attended in a panel discussion on market entry strategies and emerging trends in India with a focus on Maharashtra, featuring insights from **Vinit Adarkar**, VP & Head, Mercedes-Benz R&D India, **Neha K Shah**, Invest India, **Ramji Singh**, MD, Schmersal India and moderated by **Kalpesh Saraf**, Regional Director, Western Region, IGCC.

The evening was enriched with a cultural programme at Goethe Institute, followed by a networking dinner, reinforcing the Indo-German partnership beyond industry into culture and education.

MUMBAI: TECHNOLOGICAL AND CULTURAL EXCHANGES

The final leg of the trip in Mumbai focused on automation, digital manufacturing, and medical technology.

The Machinery Delegation delved into Mumbai's dynamic industrial sector. The day commenced with an exclusive visit to Siemens Limited's Digital Factory in Kalwa, offering a vision of advanced manufacturing and automation solutions.

Following a networking lunch, the delegation engaged with The International Society of Automation (ISA) Maharashtra Section at the Power Petroleum Process & Automation (PPPA) Expo 2025, gaining perspectives on trends in



automation, instrumentation sector in India, and industry-academia collaboration.

Simultaneously, the MedTech delegation explored new advancements in medical technology. The delegation visited Yashraj Biotech Limited, a leading company specialising in manufacturing native & recombinant antigens for the diagnostic industry. The group was welcomed by **Dr. Paresh Bhanushali**, Founder Director and Chief Operations Officer at YBL. This led to a tour of their manufacturing facility and presentation about their innovative product portfolio. The delegates had an opportunity to meet with the members of the leadership team **Arvind Bhanusali**, Founder Director and Chairman, and **D.K. Jain**, Executive Director, and engage in informative discussions on a variety of topics including developments in Indo-German lifesciences and biotechnology industry and potential areas of collaboration. The visit concluded successfully after a Q&A session and working lunch at the facility.

The MedTech group concluded their trip with a visit to Saifee Hospital in Mumbai. They met up with members of senior management and various department heads who provided

insights into the hospital's cutting-edge medical technology and advanced healthcare solutions. They highlighted Saifee Hospital's commitment to innovation and its continuous efforts to integrate state-of-the-art advancements into patient care. The discussions also emphasised hospital's openness to adopting and onboarding new German technologies, reinforcing its vision of enhancing healthcare standards through global collaboration. The companies from the delegation engaged in intense discussions with the hosts and expressed their strong interest in future collaborations.

PAVING THE WAY FOR FUTURE COLLABORATIONS

The delegation then joined "Stuttgart Meets Mumbai" Winefest on 7th February at Hotel Taj Land's End. The event offered a perfect blend of networking opportunities and cultural exchanges with wines from the State of Baden-Württemberg combined with Indian and German cuisines and presentations of Indian dances as well as traditional German music. The evening served as a finale, rounding off a week of productive discussions and industry insights, furthering deepening the Indo-German ties, driving innovation and sustainable growth across industries.

Wide range of machines for your growing needs



Sprint – Turning Center
Batliboi



Chetak – Vertical Machining Center, Batliboi



VTL – Vertical Turning Lathe
Batliboi



Annihilator – Gantry Machining Center
Quickmill, Canada



CNC Horizontal Milling & Boring Machine
SMT, Czech Republic



Plate Bending Machine
DAVI-Promau, Italy



Cold Isostatic Press
EPSI, Belgium



We manufacture as well as source leading brands of Machine Tools from around the world.

Our manufacturing facility at Surat turns out an impressive range of products – from conventional to sophisticated CNC machines.

Quickmill Inc., our Canadian subsidiary company, manufactures large area CNC Gantry and Bridge Milling and Drilling Machines at its manufacturing facility at Peterborough, Canada.

Agency Division of Batliboi represents state-of-the-art Metal Cutting, Metal Forming Machine Tools and Industrial Equipment manufactured by leading manufacturers from around the world. **We provide end-to-end solutions.**

Our quality consciousness assures dependable products, and our unrivalled pre-sales & post-sales services ensure total customer satisfaction.



Batliboi Ltd.

Machine Tool Group

Bharat House, 5th Floor, 104 Bombay Samachar Marg, Fort, Mumbai – 400 001
Phone: +91.22.6637 8200 | Email: info@batliboi.com
Web: www.batliboi.com

IGBM 01, 2025

SUSTAINMARKETS
INDO-GERMAN BUSINESS MAGAZINE

83



Carbon Credits Landscape 2025: Global Trends and Developments

As countries work towards net-zero targets, carbon markets play a key role in global decarbonisation.

By pricing emissions, they help nations meet climate goals and drive investments in cleaner technologies. The EU Emissions Trading System (EU ETS), launched in 2005, has significantly reduced emissions. A 2024 study showed emissions under the EU ETS were 47% lower than in 2005, keeping the bloc on track for its 2030 target of a 62% reduction.

The 'cap-and-trade' model used by the EU ETS also underpins the Carbon Border Adjustment Mechanism (CBAM), extending carbon pricing to imports to prevent 'carbon leakage.' Covering iron, steel, aluminium, cement, fertilisers, and electricity, CBAM requires importers to report emissions and, from 2026, pay for carbon-intensive imports unless a carbon price has been paid in the country of origin.

For Indian exporters to Germany

and the EU, this means increased reporting and compliance costs. However, companies that proactively cut emissions can position themselves as preferred business partners for EU companies – provided they invest in green production processes.

India is also advancing its carbon market under the Carbon Credit Trading Scheme (CCTS), set to launch in FY 2026-27. It will mandate industries to trade emissions allowances rather than rely on voluntary offsets. The Bureau of Energy Efficiency (BEE) oversees its development, ensuring key sectors like power, steel, and cement gradually reduce carbon footprints.

India's Carbon Market Framework has two mechanisms: the **Compliance Mechanism**, targeting emissions in energy and industry, and the **Offset Mechanism**, incentivising voluntary GHG reductions. Together, they support decarbonisation. The compliance

market enforces reductions through cap-and-trade, aligning with India's Paris Agreement commitments. This shift is expected to attract foreign investment in clean energy projects, fostering collaboration in green technology and energy-efficient manufacturing.

With CBAM pushing European companies to reassess suppliers based on emissions, India's compliance-driven approach adds complexity for businesses but also creates opportunities. As carbon markets grow globally, understanding these shifts will be crucial for staying competitive in 2025 and beyond.

What to Expect in 2025: Trends and Emerging Strategies

EXPANSION OF CARBON MARKETS

At COP29, countries finalised key guidance for Article 6 of the Paris Agreement, enabling voluntary

cooperation and carbon credit trading. While Article 6 does not directly regulate markets involving non-Party stakeholders, its implementation signals a global push for cross-border credit transactions, strengthening market integrity.

According to the International Climate Action Partnership, 14 emissions trading systems are under development worldwide. Japan is transitioning from voluntary carbon markets to a compliance-based system. China, home to the world's largest carbon market, and South Korea are refining their ETS models.

STRICTER REGULATORY OVERSIGHT

As carbon markets expand, compliance measures are tightening. A key focus is preventing misuse of carbon offsets. While offsets support environmental projects, some lack transparency, allowing companies to delay real emissions reductions.

Governments are increasing scrutiny over credit validity. In November 2024, Germany rejected carbon credits for 215,000 metric tons of CO2 linked to Upstream Emission Reduction (UER) projects in China and later prohibited oil companies from carrying forward surplus emissions credits. These reforms push companies to invest in tangible emissions reductions instead of questionable offsets, prioritising biofuel and green energy development.

As jurisdictions like India move toward compliance-driven frameworks, businesses will face stricter emissions reporting and verification. Enhanced due diligence



As the world endeavours to cut emissions, carbon pricing remains a powerful tool.

will be critical to maintaining carbon market integrity.

INTERNATIONAL COLLABORATION

With carbon pricing gaining traction, cross-border cooperation is increasing. India aims to finalise a carbon credit deal with Japan in 2025, allowing emissions reduction credits to be shared under Article 6.2 of the Paris Agreement. Similar talks are underway with South Korea and Singapore, with potential future deals involving Sweden and Germany.

Indo-German collaboration is growing through initiatives like the Green and Sustainable Development Partnership. Projects such as the Asia Low-Carbon Building Transition Project promote sustainable construction by integrating low-carbon strategies into infrastructure. The Indo-German Support Project for Climate Action in India fosters research and capacity-building to decarbonise sectors like cement and steel.

At COP29, nations set a new global climate finance goal, raising funding for developing countries to \$300 billion annually by 2035, with a long-term target of \$1.3 trillion per year. This will support carbon markets, climate adaptation, and energy transition projects.

INTEGRATION OF ADVANCED TECHNOLOGIES

Innovations in carbon reduction technologies are reshaping decarbonisation, while digital solutions enhance transparency, efficiency, and market integrity. Digital Monitoring, Reporting, and Verification (MRV) systems ensure accurate emissions accounting and are being adopted worldwide. Linked to national or international registries, these systems track emissions reductions and prevent double counting of credits. Blockchain technology also provides secure records of carbon transactions, ensuring each credit is claimed only once.

Japan, Singapore, and the EU are advancing digital MRV adoption, while Jordan has pioneered one of the most comprehensive digital carbon market infrastructures in a developing country. With World Bank support, Jordan was the first developing nation to align its MRV and emissions registry systems with global standards.

In India, the government is identifying technologies for Article 6 implementation, creating opportunities for carbon capture, renewable energy, and efficiency improvements. Ongoing Indo-German collaborations will drive investments in renewable energy and sustainability-focused R&D.

CONCLUSION

As carbon pricing becomes central to emissions reduction, balancing economic growth with sustainability is challenging. However, with smart policies and stronger enforcement, carbon markets can drive real climate action.

GERMANY BUSINESS OPPORTUNITIES

For more details:
Anupama Narayan
anupama.narayan@indo-german.com
for business opportunities from Germany.

Scan the QR code
for more inquiries
from Germany



A leading German company is looking for manufacturers and suppliers of electrical parts in India.

A German company, which is a global leader in production of dynamic storage, retrieval and distribution systems is looking for Joint venture partners for manufacturers and suppliers of mechanical parts in India. The German company is looking for manufacturers of the following electrical parts from India:

Cables and wires including cable assemblies
Sensorics eg. Sensors, light barriers, safety equipment
Drive technology and power transmission parts like frequency converters, engines
Electrical standard parts
Light pointers, LED's, light indication systems

The potential business partner should preferably have some experience of exporting electrical parts. They should also have experience of working with European companies and handling similar products.



A German company is looking for manufacturers and suppliers of individual tool parts for stamping tools, injection moulding and mechanical engineering in India.

A German company manufacturing electronic connectors used in the automotive, industrial automation and telecommunications sectors is looking for manufacturers of individual parts according to drawings for machines, injection moulding tools and punching tools in India. The connectors are used internationally in demanding applications such as data processing and communication, control and measurement technology, medical technology, automotive engineering, transport and military technology.

The German company wishes to source the individual parts for these tools for connectors from India. They are looking for producers of individual tool parts for stamping tools, injection moulding and mechanical engineering. The parts should be manufactured according to the given drawings. The required technologies are milling, turning, wire erosion and die sinking. The materials would be steel (different tool steels), carbide, aluminum and plastic.

The potential Indian business partner should preferably have internationally certified quality standards for the products.

In case you are interested in exploring partnership opportunities with this German company, please write to: anupama.narayan@indo-german.com with a brief profile of your company.

INDIA BUSINESS OPPORTUNITIES

For more details:
Shweta Suryawanshi
shweta.suryawanshi@indo-german.com
for business opportunities from India

Scan the QR code
for more inquiries
from India



Veda Engineering Pvt Ltd seeks partnerships with German firms for manufacturing, technology transfer, and joint ventures

Veda Engineering Pvt Ltd, based in Pune, specializes in Engineering, Procurement, and Construction (EPC) for utility plants, offering expertise in heat engineering, cooling systems, and pumping skids. Known for turnkey project execution and energy-efficient technologies, the company serves industries like Food & Beverages, Pharmaceuticals, Paints, Chemicals, and Auto Ancillaries. Veda Engineering seeks partnerships with German firms for manufacturing, technology transfer, and joint ventures, and is also open to representing German companies entering the Indian market.

Key products and services include:

- Boiler Plants
- Pumping Skids
- Cooling Towers
- Water Treatment Plants
- Piping Services

Veda also plans to export Tanks, Skids, Chimneys, Boiler House Skids, Pump Skids, and Spare Parts.

Indian company specialised in industrial equipment and process lines services is looking for German business partners

Jagruti Technical Services Pvt. Ltd. is an Indian company based in the city of Pune. Established in 2005, the company specializes in providing comprehensive industrial equipment and process lines installation and commissioning services, with a strong focus on factory relocations and turnkey project solutions.

With a team of 300 skilled professionals and a track record of successful projects spanning over 19 years, Jagruti Technical Services Pvt. Ltd. has built a reputation for excellence in engineering and project management across various industries including renewable energy, battery manufacturing, semiconductor, and automotives.

Their core offerings include:

- Installation and commissioning of industrial equipment and machinery
- Factory relocations across states and countries
- Turnkey project services for industrial plant setups

A key feature of their services is that the company has an expert engineering team that is skilled in the installation and commissioning of industrial equipment and machinery.

To read more about Jagruti Technical Services Pvt. Ltd., please visit the company website: www.jtspune.com



Indo-German Chamber of Commerce
Deutsch-Indische Handelskammer
Mumbai • Delhi • Kolkata • Chennai
Bengaluru • Pune • Düsseldorf

Publisher:

Indo-German Chamber of Commerce

Editorial supervision (March 2025 issue):

Stefan Halusa

Drishtirupa Das

Madhura Ghosh Mukherjee

Advertisement supervision:

Jennifer D'Lima

Genelle Fernandes

Design

Vinod Shinde

Printer:

Indigo Press (India) Pvt. Ltd.



For More Details:
Scan the QR Code to connect with us
for service queries.

Follow us on



Indo-German Chamber of Commerce



IndoGermanChamberofCommerce



indogermancc



IndoGerman



IndoGermanChamberofCommerce

Supported by:



on the basis of a decision
by the German Bundestag

INDO-GERMAN CHAMBER OF COMMERCE



Maker Tower 'E', 1st Floor,
Cuffe Parade, Mumbai – 400005.



Tel: +91-22-66652 121

BRANCHES

BENGALURU

Regional Director: Madhusoothanan S M
403, Shah Sultan, 4th Floor, Cunningham Road,
Bengaluru – 560052.
Tel: +91-80-22265 650

CHENNAI

Regional Director: Mallikarjuna Shivasharanappa
German Centre, No.32 (Old No.117),
G. N. Chetty Road, T. Nagar, Chennai – 600017.
Tel: +91-44-28340 835/ 836

DELHI

Regional Director: Shivani Chaturvedi
21 Jor Bagh, New Delhi – 110 003.
Tel: +91-11-47168 801
Fax: +91-11-26873 221

KOLKATA

Regional Director: Tom Reiner
3A, Gurusaday Road,
Kolkata – 700019.
Tel: +91-33-22837 962, +91-33-22802 236

PUNE

Regional Director: Kalpesh Saraf
710, Nucleus Mall, 1, Church Road,
Opp. Police Commissioner's Office, Pune – 411001.
Tel: +91-20-41047 100

LIAISON OFFICE DÜSSELDORF

Regional Director: Dirk Matter
Citadellstraße 12, 40213,
Düsseldorf
Tel: +49-211-360 597

INDO-GERMAN TRAINING CENTRE (IGTC)

Director: Beena Nair
2B Vulcan Insurance Building, Veer Nariman Road,
Churchgate, Mumbai – 400020.
Tel: +91-22-22846830

India Desks Abroad

• Bangkok • Colombo • Hong Kong • Houghton
• Kuala Lumpur • Riyadh • Singapore • Sydney

India Desks in Germany

• Berlin • Bremen • Dresden • Düsseldorf • Frankfurt
• Freiburg • Halle/Saale • Hamburg • Hannover
• Mannheim • München • Nürnberg • Osnabrück-Emsland
• Saarbrücken • Stuttgart • Würzburg

Representative in Brussels (Belgium)

For details: <https://indien.ahk.de/about-us>



Your Partner for Technical Education

Christiani Sharpline is a 50:50 Indo-German joint venture which has set itself the objective to improve the employable skills and help persons to get qualified for industry. As a single-source provider for hands-on technical training our portfolio covers both the hardware for the training labs and the teaching materials prepared for the lessons. For more information please see www.cstt.in

Mechanics



Automation



Electronics



Automotive



Renewable Energy



Training Lab Concepts



Christiani Sharpline Technical Training Private Limited
Plot # 19, TTC Industrial Area, Vishnu Nagar, Digha, Navi Mumbai - 400 708
Phone: +91 - 22 - 6835 8918 • E-mail: christiani@sharplinegroup.com

INTELLIGENTLY COMBINING FORM AND CONTENT

Your trusted Partner in Progress



Building on the three strong pillars of **Top-End Technology**, **First-Class Services**, and **Value-For-Money** offerings over the last 26 years, KHS India is marching ahead in its mission to always be **Your Reliable Partner** in the Beverage Packaging Industry.

www.khs.com

<https://www.youtube.com/user/KHSAhmedabad>

KHS

Filling and Packaging - Worldwide

KHS Machinery Pvt. Ltd.

Registered Office & Works: Near Hirapur Chowkadi, Vatva-Mahemdabad Highway,
Ahmedabad - 382 435, India. **Phone:** +91-79-6610 0000, **email:** sales.khsindia@khs.com

JOIN NSDC INTERNATIONAL ACADEMY'S FOREIGN LANGUAGE TRAINING PROGRAM FOR YOUR DREAM JOB ABROAD

"I got my dream job in Germany, thanks to NSDC International Academy's Foreign Language Program"



COURSES AVAILABLE IN

- German
- Japanese
- French
- Italian
- English & more

Opportunities Await in



ENROLL NOW
GIVE WINGS TO YOUR DREAMS

TO KNOW MORE MESSAGE US AT

 **+91 7042 117 644**



Scan the **QR code** to start your journey!

NSDC INTERNATIONAL ACADEMY
A-39, KNOWLEDGE PARK-III, GREATER NOIDA,
UTTAR PRADESH- 201310

www.nsdinternational.com



*NSDC INTERNATIONAL ACADEMY IS PRESENT ACROSS INDIA

Turn Your Global Career
Ambitions into Reality
with NSDC International.

18+
Countries

1Mn+
Global

30+
Sectors

Join thousands who have advanced their careers abroad and made their mark in the global job market.



Scan the **QR code** to start your journey!

Apply today at



www.nsdinternational.com

proMX Project Operations Summit 2025

Transforming with Copilot, Agents and Dynamics 365 Productivity Solutions

 April 2-3, 2025  Microsoft Munich

Join us in Munich for a learning and networking summit dedicated to Dynamics 365 Project Operations.

This is a perfect opportunity for business leaders, decision makers and heads of projects to gain a deeper understanding of Dynamics 365 technology and its ability to transform, improve and optimize business processes.

4 special guests

from Microsoft, including CVP of Dynamics 365 AI ERP

20 hours of sessions and networking

Explore solutions and meet experts

3 MVPs

for the Power Platform & Microsoft business solutions, Copilot and AI

Talk to Microsoft executives

Book your one-to-one slot



Register today

Our MVPs



Kuldeep Gupta

CEO proMX India and Microsoft MVP for Business Applications and PO expert



Joe Griffin

CEO proMX UK, Microsoft MVP for Business Applications and Microsoft Cloud Specialist



Sebastian Sieber

Director of Product Development and MVP for Power Apps and AI ERP