

Corporate Introduction

Technology from Japan Made in India

WIEIC We drive industry



TMEIC is a global leader in electrical and automation technology that enables industrial, commercial and utility customers to enhance their performance while lowering environmental impact.

TMEIC, with its headquarters in Tokyo, Japan, operates around the globe through its subsidiaries & group companies and employs more than 4,800 people worldwide.

TMEIC CORE TECHNOLOGIES

Rotating Machines



Induction Motors Synchronous Motors Permanent Magnet Motors Turbine Generators

Power Electronics



Variable Frequency Drives Uninterruptible Power Supplies Solar PV Inverters

Automation & Control Systems



Process Controllers Mathematical Models Diagnostic Systems Human Machine Interfaces Process Automation Systems Productivity Tools & Quality Control Systems



Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) was established in October 2003 following the integration of Toshiba Corporation's and Mitsubishi Electric Corporation's businesses in the industrial field. Since that time, TMEIC has leveraged the technologies and business foundations inherited from both companies to deliver an array of products, technologies and services that are highly regarded by customers. Efforts to grow business in the field of renewable energy and to maximize synergies in areas such as power electronics, rotating machinery and system engineering have facilitated this success, with business operations now spanning the globe. I would like to express our sincerest gratitude for your guidance and patronage over the years.

Our basic policy is to "build a sustainable partner relationship that will enable us to work hand in hand and grow together with our customers." In this ever-changing world, we aim to continue supporting the development of industrial and social infrastructure and the progress and success of our customers, which will in turn help ensure significant growth for TMEIC.

TMEIC's corporate statement is "We

drive industry." This expresses our strong intent for "each and every employee to become the driving force of industry and society by maintaining high ethical standards, while keeping in mind our social responsibility. In doing so, our hope is to contribute to further advancement."

We will continue to play a role in working to realize a carbon neutral society. Through products, systems and services that contribute to the growth and advancement of our customers, we seek to be the company of choice as well as a highly valued partner.

We ask for your ongoing support as we work to accomplish these goals.

Akira Kawaguchi

President & Chief Executive Officer TMEIC Japan



TMEIC India, a 100% subsidiary of TMEIC Japan, was established in 2010 to provide high quality, reliable, and progressive products and solutions to contribute the economic growth and realise the sustainable society in India and Global market to meet their demand, Headquartered in Bangalore, having Engineering and R&D hub in Hyderabad, Sales, Engineering and After sales service offices across India, and Manufacturing bases of Rotating machineries and Power Electronics devices in Tumkur factory, Karnataka, India.

We TMEIC dedicated in all kinds of industries such as Metals, Oil &Gas, Mining & Cements, Rubber & Plastics, Tires, Automobile & Autocycle, Semiconductors & Electronics, Foods & Beverages, Pharmaceutical & Health care, Pulp & Paper, Port cranes & Material handlings, Data centre, Power & Utilities, Renewable Energies, Water & Wastewater, and upcoming Carbon Neutrality, with highly skilled expertise, excellence of know-how and process intelligence, and profession on our cutting-edge products and various solutions.

Our mission and goal is always to support the customer's successes as the reliable partner by driving industry.

Matsushima Hidekazu

Managing Director, TMEIC India

OUR VISION

OUR CORE VALUES

CUSTOMER CENTRIC

We strive to meet and exceed customer expectations with a passion for quality and excellence

INTEGRITY

We exhibit integrity, our fundamental value, as an individual, as a team and as an organization every time and in every way we conduct business

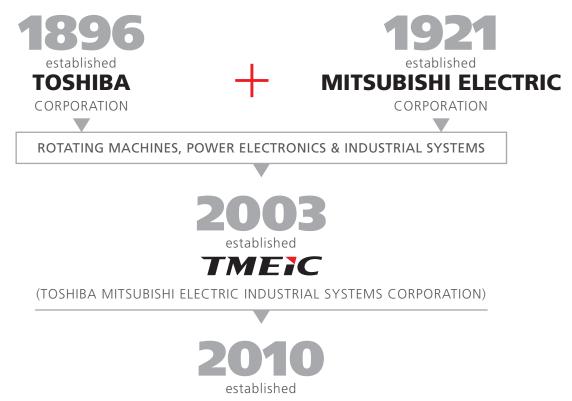
PERSONAL COMMITMENT

We are individually and collectively accountable and work together without boundaries, to face challenges and deliver success

We, TMEIC India, will be the most valued, integrated Electrical and Automation Solutions company in the country. We will drive industry into a new era of next generation technology and solutions enabling performance excellence for every customer.

OUR MISSION

We will drive customer excellence & success through our innovative, high quality and environment friendly solution, delivered by our committed and motivated team.



TMEIC INDUSTRIAL SYSTEMS INDIA PRIVATE LIMITED

TMEIC's strength in Design, Engineering, Manufacturing, Supply, Installation, Commissioning and Servicing of Control & Monitoring Systems, Power Electronic Equipment and Rotating Machinery bring immense values & benefits for our customers globally.



Capital : Japanese Yen 15 Billion

Investment Ratio:

Toshiba **50%** Mitsubishi Electric **50%**

President & CEO: Mr. Akira Kawaguchi

Sales Base:

Tokyo, Sapporo, Chiba, Toyama, Nagoya, Osaka, Okayama, Hiroshima, Shunan, Takamatsu, Fukuoka, Nagasaki

JPY 316 Billion Sales in 2023

Manufacturing Base: Tokyo (Fuchu), Yokohama (Keihin), Kobe, Ako, Nagasaki

No. of Employees 4861 (worldwide as of March 31, 2024)

Group Companies: Japan - 1, Overseas - 16 (including 2 affiliates)

TMEIC INDIA

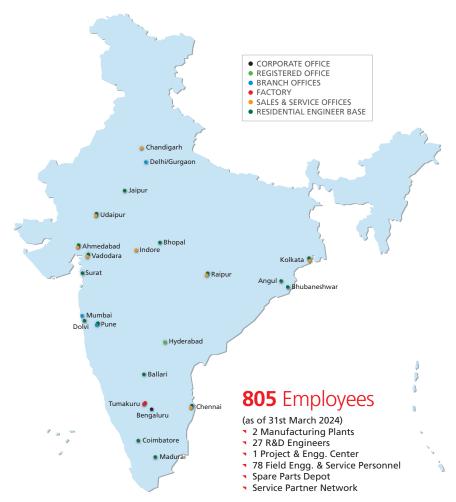
TMEIC Industrial Systems India Private Limited (TMEIC India), an ISO 9001:2015 certified company, was established in 2010 as a 100% owned subsidiary of TMEIC Japan to manufacture various TMEIC range products in India, and also to supply Japanese made products and systems in Indian Market.

Japanese technology is well known for its quality, efficiency and reliability. TMEIC India has established its state-of-the-art manufacturing facilities at Tumakuru near Bengaluru in Karnataka State of India, for manufacturing Rotating Machines and Power Electronics products.

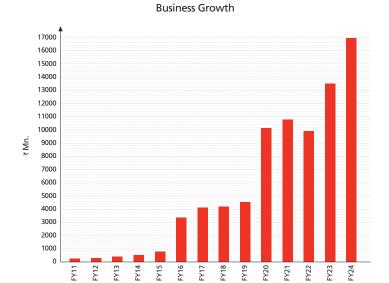
Both the plants manufacture products for the domestic and export markets, in accordance with the design, planning, manufacturing, quality and testing practices followed by TMEIC Japan.

TMEIC India is trained and is fully capable of designing, manufacturing, supplying and providing service support for all our products & solutions manufactured in Indian factories as well as those from other TMEIC factories outside of India.

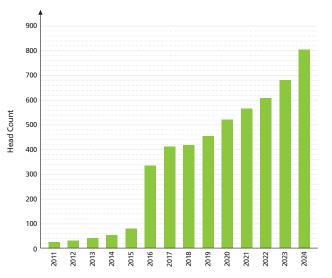
On the basis of very strong belief in technology, precision and quality of products, TMEIC India has proved its capability of providing the best to the global market.

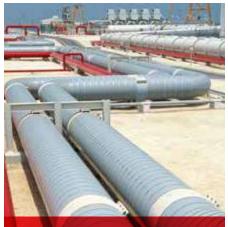


YEAR BY YEAR GROWTH OF TMEIC INDIA

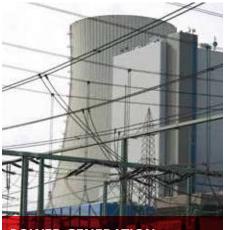


People Growth

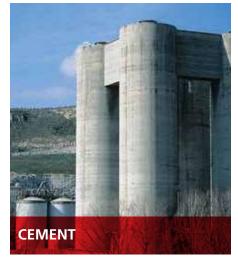


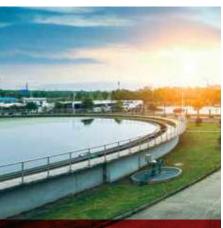


OIL & GAS

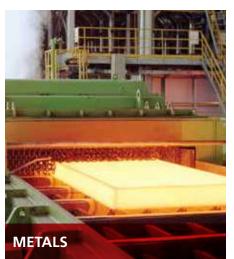


POWER GENERATION





WATER & WASTE WATER



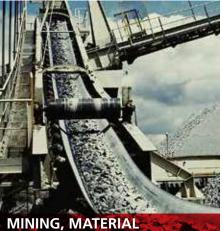
INDUSTRIES WE SERVE

While we work in a broad range of industries, our team is singularly focused on driving performance and delivering customer success.

We aim to take our customers to an entirely new level, for the betterment of the people we serve and the world in which we live.

It is an idea that defines our business principles and goes into our heart while we approach each day and every new challenge.

At TMEIC, we drive industry. It is our passion and our never-ending pursuit.



MINING, MATERIAL HANDLING & CRANE SYSTEMS



RENEWABLE ENERGY



HEALTHCARE, AUTOMOBILE, TELECOM & COMMERCIAL



REDUCING CARBON FOOTPRINT

By developing the ultimate environment-friendly & clean technologies and providing superior products that control electrical energy, TMEIC contributes to environmental conservation and a sustainable society.

Achieving efficiency in manufacturing and leveraging technology to harness new energy is in all that TMEIC does. For the continued forward progression of industry and society, the world requires technologies that harmonize with the global environment. TMEIC works together with its partners around the world to evolve together towards earth-friendly 'green factories' in promotion of energy saving and CO₂ emission reductions.

- Close to 5.5 GW TMEIC Solar PV Inverters installed in India are lighting up more than 3.3 million village homes and reducing CO₂ emission by about 4.9 million tons p.a.
- 450+ TMEIC Variable Speed Drives installed in Indian industries, saving more than 1 million units of electric energy every day.
- TMEIC's highly efficient and reliable UPS helps our customers to have improved uptime for their operations, resulting in higher productivity, while saving substantial amount of energy compared to conventional systems.



TMEIC ENGINEERING

As a manufacturer of products and systems integrator, TMEIC provides support across the board - from a proposal of solution to post-sales services. While cutting-edge technologies are used to implement innovation in the production process, our accumulated know-how and expertise are applied to create a variety of systems.

We deliver life cycle support services - from the introduction of the most appropriate equipment for the customer, through its maintenance and support, to its eventual modernization in the future.

Research & Development

Planning





Design & Engineering



Manufacturing



Construction



TMEIC's advanced technologies and skills, combined with our service network, provide service solutions and robust support for the stable operation of our products and systems.

Services



TMEIC VALUE PROPOSITION

Carefully Crafted

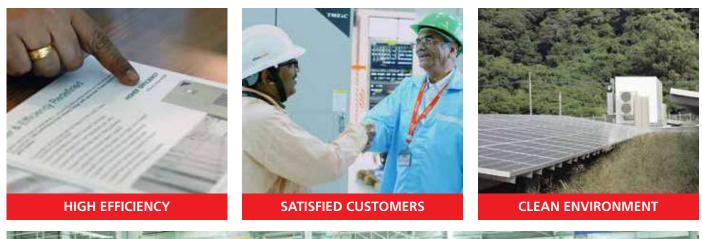
Every equipment is designed and engineered to meet and exceed customer expectation. Every component is selected for highest quality adopting the time tested & proven Japanese qualification standards & practices. Every part is assembled & tested with utmost care and precision in a clean & hygienic environment.





OUR GOALS







EXCELLENCE IN MANUFACTURING

50+ years of Japanese manufacturing experience, now in India

Our world-class manufacturing plants with ISO-9001, ISO-14001 & ISO-45001 certification at Tumakuru, Karnataka, India (near Bangaluru) has the state-of-the-art design & engineering, production, testing facilities, quality control, SCM capabilities and products that meet Indian and International standards. It has well trained employees having expertise in development of PV inverters, UPS systems and MV motors & drives.

It is our endeavor to bring full capabilities of our Japanese operations to India as we take on the new challenge of building a better tomorrow for India.







ROTATING MACHINES

Our Rotating Machinery is legendary due to its impressive level of dynamism.

TMEIC's core technologies, from electromagnetic to structure analysis techniques to high level production & quality control process are core to the success of our rotating machines as the most sought after in the world for critical & demanding applications. Each and every piece of rotating machinery produced by TMEIC is an achievement of our production process & quality control expertise that comes from the unique technological strength of TMEIC and the enthusiasm & skill set of our dedicated workforce.

Squirrel Cage Induction Motors & Generators - Made in India











From Design to Quality Control - All made the TMEIC Way

Motors designed & manufactured in our factory in India, strictly in accordance with TMEIC Japan processes & practices, shall comply to Indian & international standards and bring unmatched value to our customers.

- IEC Frame size: 315-900
- Power rating: 150kW-23000kW
- Voltage class: 380V-13.8kV
- Enclosure: TEFC / TEAAC / TEWAC / WPII
- Certifications: CSA, PESO, EAC-Ex, IEC-Ex, ATEX, IK08
- Combined testing of Motors & Drives
- CE Marking

Area of Classifications:

Safe & Hazardous (Ex ec, Ex tc, Ex eb, Ex p)

Motors & Generators from TMEIC Japan





- Induction Motors
- Synchronous Motors
- Permanent Magnet Motors

INDUSTRIES SERVED

Turbine Generators





- Rolling Mill Duty Motors
- Hazardous Area Motors (Ex-p, Ex-d, Ex-tc)
- Ultra High Speed Motors
- Low Voltage & Medium Voltage Class



Industrial Steel, Cement, Paper, Fertilizers, Chemical, Glass, Rubber & Textile



Power Utilities

Oil & Gas



Water Utilities



Mining, Material Handling

*For technical details and features of each product, kindly refer the respective Product Catalogues.

High power to weight ratio - Smaller footprint
 Ease of operation & maintenance

- Rugged construction to suit demanding application
- Suitable for severe corrosive & hazardous environment
- Maximum uptime for high return of investment
- Designed for Inverter Duty Applications TMEIC Make Motor & Drive for better performance

VARIABLE FREQUENCY DRIVES (VFDs)

TMEIC VFDs are designed keeping in mind the ease of operation & maintenance, smaller foot print, environment friendliness, maximum uptime with Japanese Quality and the highest return of investment for our customers.

TMdrive Medium Voltage VFDs - Made in India

TMdrive-MVe2 & TMdrive-MVG2 are Medium Voltage, Variable Frequency AC Drive System with multi-level near Sine Wave Output are suitable for applications using standard Induction and Synchronous Motors.

- Power rating 200kVA-19500kVA
- Voltage class 3.3kV-11kV
- ▼ High Efficiency: ~97%
- Premium power factor: Up to 0.99
- Input Harmonics: ~2%
- Reactive power compensation in Active Front End Drive
- Regenerative feature in Active Front End Drive
- Motor friendly wave form
- High MTBF means less failures & high uptime
- Modular construction resulting to low MTTR



TMdrive-XL85

TMdrive-XI 75

VIEE

100.000 kVA

TMdrive-70

10,000

TMdrives - from 1kVA to 120,000kVA

TMdri

Low Operating cost: No replacement of DC Capacitors in lifetime of equipment due to aging effect

Note: Above parameters are subjected to Drive Type & Rating

TMdrive-MVe2 is designed with Active Front End IGBT Converter enabling reactive power compensation which helps to maintain near Unity Power Factor at input side even at partial loads. This feature combined with its regenerative capability brings maximum energy saving for any application.

TMdrive-MVG2, designed with Diode Front End Converter, is suitable for large power ratings and offers high efficiency, high reliability and ease of operation.

VFDs from TMEIC Japan

- TMdrive-10e2 Low Voltage System Drives
- TMdrive-70e2 Rolling Mill Duty Medium Voltage Drives
- TMdrive-XL Large Capacity Medium Voltage Drives upto 120MVA

INDUSTRIES SERVED



Industrial Steel, Cement, Paper, Fertilizers, Chemical, Glass, Rubber & Textile



Power Utilities



Oil & Gas



Volts

TMdrive-MVG

1000

12000

10000

8000

6000

4000

2000

0



Water Utilities Mining, Material Handling

Mining,

PHOTOVOLTAIC (PV) INVERTERS

TMEIC, world's leading brand in energy efficient, sustainable and reliable, advanced multi-level solar PV inverter technology.

Photovoltaic generation offers a powerful alternative to secure our energy supplies. Photovoltaic generation is clean and ultimate environment-friendly technology since it does not emit CO_2 . TMEIC's Inverters deliver high energy efficiency (99%), lower switching losses by 56%, lower equipment footprint and weight thus leading to unparalleled yield on customer investment.

It redefines the PV utility scale solar inverter solution in reliability, efficiency and productivity. TMEIC sets the standard of utility scale installation with its own proprietary and the most advanced switching technology which brings flat efficiency characteristics providing huge benefit to high DC/AC ratio.

SPECIAL FEATURES

Make in India (Class 1) Inverters

TMEIC Inverters are manufactured in India with > 50 % local content.

Grid Connection Features

TMEIC has long history working with power companies and have developed the grid connection features together. All of TMEIC's utility scale inverters come with the latest interconnection technology (Complying to CEA 2019 guidelines).

High Efficiency in this Class

TMEIC's most advanced design allows inverter to operate at an amazing maximum efficiency of 99%. With high efficiency and the robust design, TMEIC can significantly maximize array performance and uptime.

By developing these core technologies, and by providing the customer with superior products controlling electrical energy, TMEIC contributes to environmental conservation and a sustainable society.

REWARDS









UPS SYSTEMS

TMUPS Series Uninterruptible Power Supply (UPS) design with its advanced state-of-the-art power conversion technology delivers Industry leading efficiency to go along with the quality and reliability that users are accustomed to when specifying TMUPS.

NEXT-GENERATION UPS SOLUTIONS

FOR BUSINESS-CRITICAL LOADS!





Redundant Modular UPSs 800kVA~1800kVA

TMUPS W350 series provides megawatt of power in a single UPS frame. The power modules with advanced multilevel power conversion combined with CSTBT technology (advanced IGBT) delivers robust UPS performance and longer life. Incorporated with Digital Signal Processor and Direct Digital Control to avail the full benefits of the latest generation CSTBTs, TMUPS realizes the reduced total cost of ownership and improved PUE over conventional UPS.

Features

- Expandable upto 6 units in parallel to meet the redundancy requirements
- Compact footprint design delivers more power density per sq.ft. in the industry
- Multi-level power conversion enhances the lifetime of capacitors to 15 years
- Most suitable for high density data center applications

Single Module UPSs 100kVA~600kVA

World's first multi-level conversion Uninterruptible Power Supply, TMUPS is the wise response from TMEIC for the growing demand of high reliability and efficient power solution for mission-critical applications.

Its innovative three-level circuit concept and exclusive power module delivers superior performance and reliability with reduced cost of ownership.

Features

- Expandable upto 8 units in parallel to meet the redundancy requirements
- Compact footprint design delivers more power density per sq.ft. in the industry
- Multi-level power conversion enhances the lifetime of capacitors to 15 years
- Compatible for 100% regenerative loads with bi-directional power converters

INDUSTRIES SERVED













Commercial

Industrial

Financial Services

Telecom

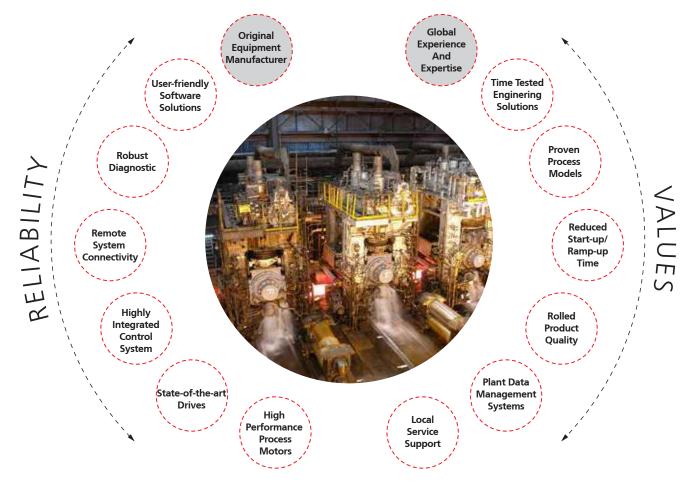
Data	Cente	ers

Healthcare



SOLUTIONS FOR METALS INDUSTRY

TMEIC delivers state-of-the-art Electrics, Motors, Drives, Automation & Control Systems and Integrated Solutions to enable customers to run their process plants with utmost efficiency and enhance productivity.















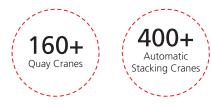
CRANE CONTROL SYSTEMS

TMEIC's Crane Engineering Team has gained its experience working in the ports with technicians and mechanical suppliers. This engineering background, coupled with state-of-the-art technology, enables TMEIC to consistently meet the demanding requirements of the industry.

The advanced features of the TMEIC MaxView[™] Crane Automation System allows operation of the container cranes & the yard at a higher rate, often setting production records. In addition, the increased reliability helps to reduce container and equipment damage. The MaxView[™] vision system, added to the basic MaxSpeed[™] crane control system, provides several levels of scalable crane automation from semi-automatic with manual assistance up to fully-automatic, unmanned operation.



- Electrics
- Process Performance Motors
- Variable Frequency Drives
- Crane Control Systems
- Visualization Systems
- Yard Automation
- Connectivity to Terminal
 Operation System





CMS - TMEIC Crane Management System



Maxview Smart Move™



Maxview Smart Landing®



Maxview Vehicle Guidance™

TMEIC SERVICE SUPPORT

Supervision & Commissioning Services

The TMEIC commissioning team includes the field engineers, along with the engineers who designed and tested the system. The team is supported through:

- Exhaustive factory acceptance test
- Time saving commissioning and drive tune-up wizards
- Training and familiarization of the entire team with the system at the factory



This TMEIC approach helps us to minimize changes & modifications at projects sites which in turn enables for quick start-up and faster ramp-up to commercial production.

Comprehensive technical service is provided by our Customer Support Organization, staffed by TMEIC service engineers with factories, offices and spare parts depots across the globe.









Remote Diagnostics Services

TMEIC's Remote Diagnostic System gives:

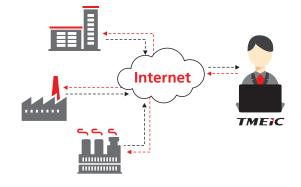
- Direct access to world class support, technical information and software updates for TMEIC's products
- Offers a quick path to problem resolution with real time remote support
- Provides steps for resolution for controllers, drives, networks, HMI and other TMEIC's supplied equipment in case of reactive, preventive and predictive needs

Onsite Service Support

- Our highly experienced field support engineers work to provide the right combination of preventive and reactive support to meet your technical and financial needs and objectives
- Over 300 global engineers dispatched from 60+ field offices in 20 countries

Service Contracts

- Long term service contract with expert team to ensure fix maintenance cost, without any worry on downtime & production loss
- TMEIC offers different spare parts & labor contracts to suit customers' technical and operational needs





TMEIC SERVICE OFFERINGS

Repairs Centre

TMEIC offers the perfect environment for Reliable and Quality refurbishment services of equipment.

Every job at TMEIC facility undergoes quality control at every stage of the repair process.

From aged/ failed component replacement to software enhancements and upgrades, all work is full-load tested

The equipments are repaired according to the original specifications. We ensure the operations are as per design, by using genuine spare parts.

The equipment is cosmetically restored and returned to the customer in 'like new' or better condition

Assessment Services

Identify human and equipment issues that hinder production performance and develop a maintenance strategy that leads to increased machine efficiency, availability, reliability and safety.

Some of the core services under service assessments are:

Revamps, Upgrades, Modernization

When it's time to revamp, upgrade, modernize or replace the existing drives, motors and control systems, TMEIC has the technology and project engineering team to assure a smooth migration path.

TMEIC's vast global experience in

Training

TMEIC offers a variety of training opportunities, including specialized customer training at our facility, on-site training at the plant, as well as customized Engineering Schools.

Class Room Training

Our training facility features large classrooms and fully-equipped training labs for our customers. Training consists of 50% class time and 50% hands-on lab time.

- Installed Base Evaluation
- Control System & Network Analysis
- Machine Condition Evaluation
- Equipment Residual Life Analysis
- Energy Audits
- Power System Analysis
- Health assessment
- Motor Overhauling





modernizing equipment & process plants across the world combined with our competent field engineering team ensure step by step implementation to success with minimum interruption to the production operations of the running plant.



Practical Training Experience through VR Training Modules

Customized Training at the Plant

As an alternative to the standard class room training, TMEIC offers a course tailored to your project and held at your location.







TMEIC Industrial Systems India Private Limited Group Company of TMEIC Corporation, Japan.

Corporate Office:

The Millenia, Tower A, 10th Floor, #1 & 2, Murphy Road, Halasuru, Bengaluru 560 008. India. Tel.: +91-80-6751-5599, Fax: +91-80-6751-5500

Registered Office:

Unit #06-01, Sixth Floor, Block 2, Cyber Pearl, HITEC City, Madhapur, Hyderabad 500 081. Tel.: +91-40-4434-0000, Fax: +91-40-4434-0034

Branch Offices:

MUMBAI:

13th Floor, B Wing, 247 Park, Lal Bahadur Shastri Road, Gandhi Nagar, Hindustan C, Vikhroli (W), Mumbai 400 079. India.

PUNE:

03-109 (WeWork Raheja Woods), Kalyani Nagar, Pune 411014. Maharashtra. India. Tel.: +91-20-6723-6261 / 6262 / 6263

DELHI / GURGAON:

S-12, Vatika Business Centre, Vatika Triangle 2nd Floor, Sushant Lok Phase-I, Block-A, M.G. Road, Gurgaon 122 002. Haryana. India. Tel.: +91-124-4418650

CHENNAI:

Plot No. 10, Bristol IT Park, 4th Floor, Office No. 407, Thiru. Vi. Ka. Industrial Estate, Guindy, Chennai 600 032. India. Tel.: +91-44-4004-0619

Manufacturing Site:

TUMKUR:

Plot #316, Vasanthnarsapura Industrial Area, Phase 2, Yaladadlu Village, Kora Hobli, Tumkur District 572 128. Karnataka. India. Tel.: +91-816-229-4040 Fax: +91-816-229-4069

Enquiry:

Motors, Drives: MVDrivesMotors@tmeic.in Metals / MH Systems: MVDrivesMotors@tmeic.in Solar PV Inverters: pv@tmeic.in UPS: tmups@tmeic.in

TMEIC SERVICES



24 x 7 x 365 Customer Service Support: +91-40-4434-0123 Toll Free No.: 1800 1234 292 E-mail: support.india@tmeic.in

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