

COMPANY PROFILE

Engineering Excellence,
Building A Sustainable Future



**SAFETY
FIRST**



**QUALITY
ASSURED**



**COMMITTED
TO EXCELLENCE**



A Subsidiary Of
Takasago Thermal Engineering Co., Ltd

高砂熱学工業

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COMPANY OVERVIEW

Providing Solutions
To Contribute
Professionally To Global
Environmental Conservation.



COMPANY NAME

T.T.E. Engineering (M) Sdn. Bhd.



DATE ESTABLISHED

11th November, 1980



PJ HEAD OFFICE

Lot No 01-7, 7th Floor, Menara Symphony,
No. 5, Jalan Prof. Khoo Kay Kim,
Section 13, 46200 Petaling Jaya,
Selangor Darul Ehsan.



SITE OFFICES

Kulim, Penang, Batu Kawan,
Melaka, Johor Bahru



NUMBER OF EMPLOYEES

> 150



Engineering Excellence
Rooted In Japanese Innovation,
Built For Malaysia



ABOUT

COMPANY BACKGROUND

*Engineering Excellence. Trusted Solutions.
Built For Malaysia. Ready For The World.*



ESTABLISHED IN 1980

T.T.E. Engineering (M) Sdn. Bhd. is established in 1980 in Malaysia. The company is involved in project execution, supply, installation, maintenance & other related works for industrial heating, ventilation, air-conditioning (HVAC), electrical supply system, utility process and cleanroom systems.



OVER 100 YEARS OF EXPERIENCE

Its parent Company, Takasago Thermal Engineering Co. Ltd. Japan has shared and instilled its over 100 years of experiences and technologies in the industry to cater to the needs of engineering expertise in Malaysia.



JAPANESE WAY OF WORKING

T.T.E. Engineering (M) Sdn. Bhd. incorporates Japanese ways of productive work styles, management and design thinking into the company operation.

The company has more than 100 engineers as of today and is part of Takasago Thermal Engineering Co. Ltd.'s worldwide network with full back-up measures.

Our experienced engineers play a major and important role in every engineering projects.



REGISTERED & CERTIFIED

T.T.E. Engineering (M) Sdn. Bhd. is a registered grade G7 company under the Construction Industry Development Board of Malaysia (CIDB) and MS ISO 9001:2015 certified company since 1996.



SERVICES:

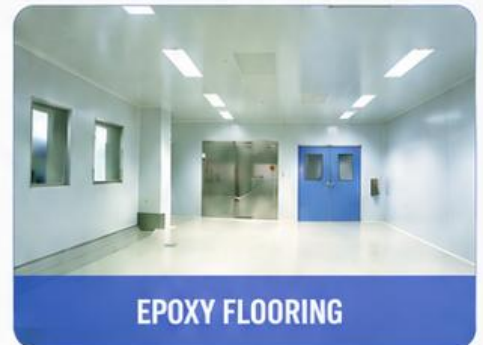
CLEANROOM SYSTEM

High Performance Cleanroom Solutions
for Critical Environments.

SERVICE DETAIL:

- | | |
|---|---|
| ✓  Ceiling System | ✓  Design & Build Cleanroom System |
| ✓  Partition System | ✓  Industrial Cleanroom |
| ✓  Raised Floor System | ✓  Biological Cleanroom |
| ✓  Flooring | ✓  Clean booth |
| ✓  Painting | ✓  Anti-Static / ESD Finishing |
| ✓  Steel Structure | |

APPLICATION / PROJECT EXAMPLES:



QUALITY

Built to meet
international standards.



EXPERIENCED

Over 100 years of
engineering expertise.



RELIABLE

Delivering trusted solutions
with precision & care.



CUSTOMIZED

Tailored to your industry
and operational needs.

SERVICES:

HVAC SYSTEM

Efficient. Reliable. Sustainable.
Complete HVAC Solutions for Every Need.

SERVICE DETAIL:

- | | |
|--|--|
| ✓  Heating, Ventilation & Air-Conditioning System | ✓  Dry Coil System |
| ✓  Air Cooled System | ✓  Air Washer System |
| ✓  Water Cooled System | ✓  Primary & Secondary AHU System |
| ✓  Chilled Water System | ✓  Heater System |
| ✓  Fan Filter Unit System | ✓  SMRT System (Reactional cooling) |
| ✓  Make-up Air Handling System | ✓  HEPA Filter System |

APPLICATION / PROJECT EXAMPLES:



HVAC WATER PUMP SYSTEM



CONDENSING WATER SYSTEM



CHILLED WATER SYSTEM



DUCTING



AIR HANDLING UNIT (AHU)



ENERGY EFFICIENT

Optimized systems for lower energy consumption.



RELIABLE PERFORMANCE

Stable operation for critical environments.



EXPERT ENGINEERING

Designed & installed by experienced professionals.



TOTAL SOLUTION

From design to installation & maintenance.

SERVICES:

PROCESS UTILITY SYSTEM

Reliable Utility Solutions for
Efficient, Safe and Sustainable Operations.

SERVICE DETAIL:

- | | |
|--|---|
| ✓  Process Cooling Water System | ✓  Bulk Gas Supply System |
| ✓  Process Exhaust System | ✓  Special Gas Supply System |
| ✓  Process Vacuum System | ✓  Chemical Piping System |
| ✓  Compressed Dry Air System | ✓  DI Water Piping System |
| ✓  House Vacuum Cleaning System | ✓  Scrubber System |
| ✓  Process Drain System | ✓  Dust Collector System |

APPLICATION / PROJECT EXAMPLES:



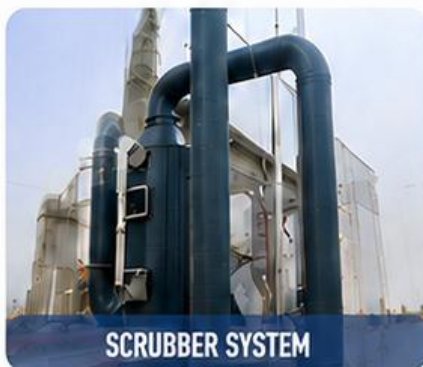
DUST COLLECTOR SYSTEM



PROCESS COOLING WATER SYSTEM



PIPING SYSTEM



SCRUBBER SYSTEM



COMPRESSED DRY AIR SYSTEM



PROCESS EXHAUST SYSTEM



RELIABLE PERFORMANCE
Designed for continuous
and stable operation.



ENERGY EFFICIENT
Optimize systems to reduce
energy consumption.



SAFE & COMPLIANT
Built to meet industry
standards and regulations.



SUSTAINABLE SOLUTIONS
Supporting environmental
responsibility.



END-TO-END SERVICE
From engineering to
installation & maintenance.

SERVICES:

FIRE-FIGHTING SYSTEM

Protecting Lives. Safeguarding Property.

Reliable Fire Protection Solutions for Every Building.

SERVICE DETAIL:

- | | | | |
|---|-------------------|---|---|
| ✓  | Conventional | ✓  | Smoke Detection System |
| ✓  | Addressable | ✓  | Heat Detection System |
| ✓  | Sprinkler System | ✓  | Highly Sensitive Smoke Detection System |
| ✓  | Fire Alarm System | ✓  | Fire Suppression System |
| ✓  | Hose Reel System | ✓  | In-Rack Sprinkler |
| ✓  | Dry Riser System | | |

APPLICATION / PROJECT EXAMPLES:



FIRE SPRINKLER SYSTEM



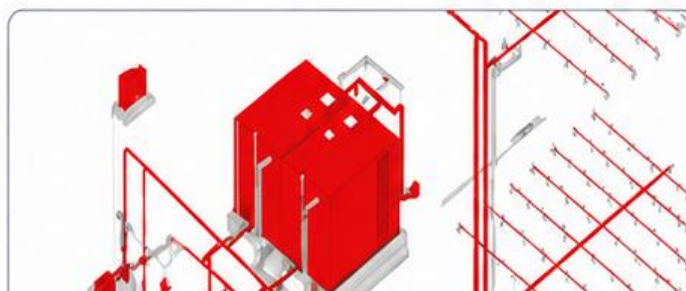
CO2 SYSTEM



FIRE PUMP ROOM



FIRE ALARM SYSTEM



FIRE SPRINKLER SYSTEM LAYOUT DESIGN



LIFE SAFETY

Designed to protect people and property.



RELIABLE PERFORMANCE

Advanced systems for early detection and response.



COMPLIANCE ASSURED

Meets NFPA, Bomba & local code requirements.



EXPERT INSTALLATION

Professional installation with strict quality control.



24/7 SUPPORT

Maintenance & support you can rely on.

SERVICES:

SANITARY & PLUMBING SYSTEM

Clean Water. Better Living.

Reliable Sanitary & Plumbing Solutions
for a Healthier Environment.

SERVICE DETAIL:



City Water and
Drinking Water



Oil Separator



Soil & Waste
Water System



SAFE & CLEAN

Ensuring clean water
supply and proper
waste management.



RELIABLE SYSTEMS

High quality materials
and workmanship for
long-lasting performance.



SUSTAINABLE SOLUTION

Environmentally responsible
systems for a better
tomorrow.

APPLICATION / PROJECT EXAMPLES:



CITY WATER SUPPLY



CITY WATER PUMP



DOMESTIC WATER TANK



WATER QUALITY

Delivering clean and
safe water supply.



EFFICIENT SYSTEM

Designed for optimal
performance.



EXPERT INSTALLATION

Professional installation
by experienced team.



LOW MAINTENANCE

Easy to maintain and
cost effective.



ENVIRONMENT FRIENDLY

Supporting sustainable
water management.

SERVICES:

ELECTRICAL SYSTEM

Powering Performance. Ensuring Safety.
Reliable Electrical Solutions for
Every Need.

SERVICE DETAIL:

- | | | | | | |
|---|---|-----------------------------|---|---|----------------------------|
| ✓ |  | HT System | ✓ |  | Equipment Grounding System |
| ✓ |  | ELV. LV System | ✓ |  | Emergency Source System |
| ✓ |  | Lightning Protection System | ✓ |  | ESD System |

APPLICATION / PROJECT EXAMPLES:



SAFE & RELIABLE

Designed to meet the highest safety standards.



HIGH PERFORMANCE

Efficient systems for continuous and stable power supply.



ENERGY EFFICIENT

Optimized solutions to reduce energy loss and operating cost.



EXPERT INSTALLATION

Professional installation by experienced engineers.



COMPLIANCE ASSURED

Compliant with local & international regulations.

SERVICES:

DRY ROOM SYSTEM

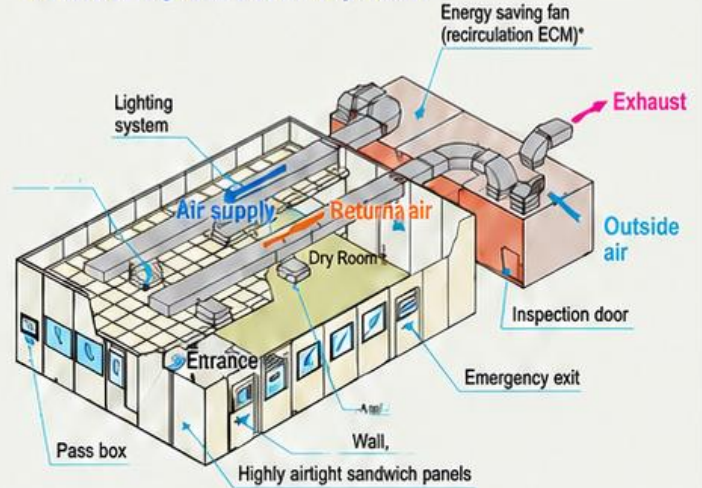
Advanced Dry Room Solutions for
High Performance & Energy Efficiency.

SERVICE DETAIL:

- ✓ Achieving reasonable low cost and energy efficient Dry Room with appropriate device configuration and optimal operational control.
- ✓ Moisture in the air is an impediment for the manufacturing processes of the rapidly increasing rechargeable lithium ion batteries and organic EL. The manufacturing is performed in a Dry Room, which the moisture in the air is removed in a controlled low dew point temperature around -40°C to -70°C .

APPLICATION:

■ Basic configuration of the Dry Room*



APPLICATION EXAMPLES:



DRY ROOM



ENERGY EFFICIENT

Optimized system design to reduce energy consumption.



MOISTURE CONTROL

Maintains ultra-low dew point for sensitive manufacturing.



HIGH QUALITY

Ensures stable and clean environment for high precision processes.



COST EFFECTIVE

Smart control and efficient operation for long term savings.



SUSTAINABLE

Supports green manufacturing and sustainable growth.

SERVICES

BUILDING CONSTRUCTION

Delivering Quality. Building the Future.

Comprehensive construction solutions for all types of buildings.

SERVICE DETAIL:

- ✓  Civil & Structural Works
- ✓  External Work
- ✓  Architectural Works

APPLICATION / PROJECT EXAMPLES:



SEMICONDUCTOR FACTORY



WAREHOUSE



QUALITY ASSURED
High standard of quality in every project.



EXPERIENCED TEAM
Skilled professionals with proven track record.



SAFETY FOCUSED
Committed to safety on every site.



ON TIME DELIVERY
Completed on schedule with efficiency.



COST EFFECTIVE
Smart solutions for better value.

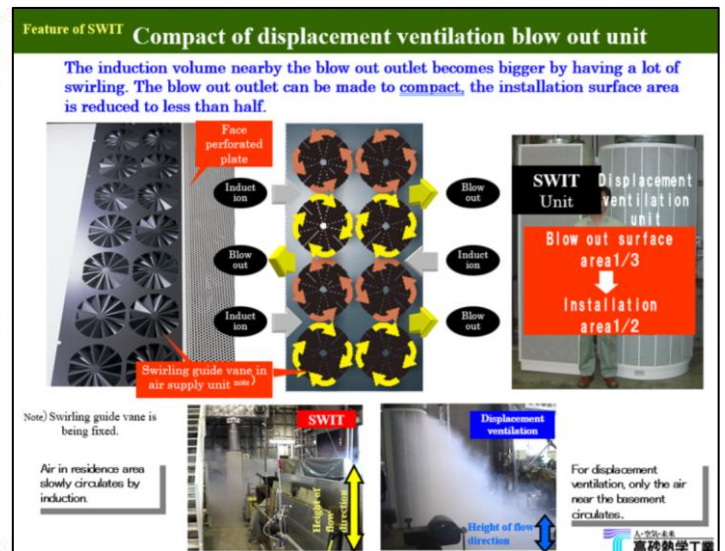
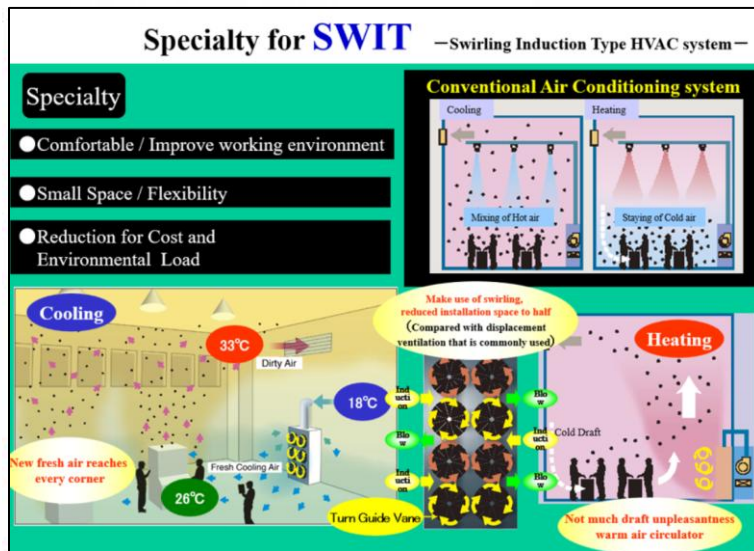
SWIT SYSTEM

Smart Solution. Lower Energy. Higher Efficiency.

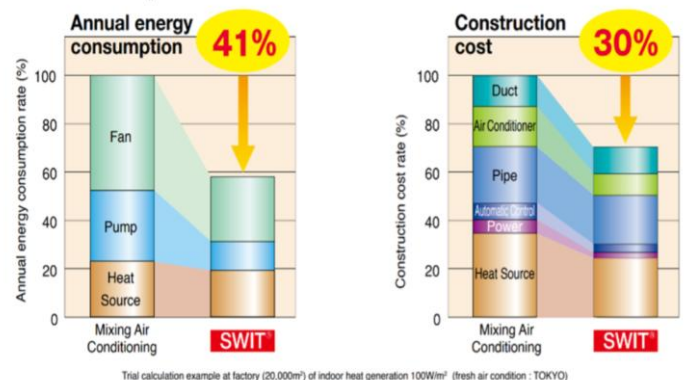
Advanced energy saving air conditioning system using Swirl Flow induction Type air supply unit (SWIT).

SERVICE DETAIL:

- It is energy saving air conditioning system using swirl flow induction type air supply unit (SWIT).



SWIT® not only reduce annual energy consumption but also constructions cost



ENERGY SAVING
Reduce annual energy consumption up to 41%.



COST EFFECTIVE
Lower construction cost up to 30%.



COMFORTABLE ENVIRONMENT
Improve thermal comfort for better productivity.



FLEXIBLE DESIGN
Suitable for various space and applications.



SUSTAINABLE SOLUTION
Lower environmental load and long term benefit.

SOLAR PANEL SYSTEM

Clean Energy. Sustainable Future.

Reliable and efficient solar panel solutions for factory industries

SERVICE DETAIL:

✓ Solar Panel System

APPLICATION / PROJECT EXAMPLES:



SOLAR PANEL SYSTEM FOR FACTORY



CLEAN ENERGY

Generate clean and renewable energy from the sun.



COST SAVING

Reduce electricity bills and operating costs in the long run.



RELIABLE & DURABLE

High quality system with long lifespan and low maintenance.



ENVIRONMENT FRIENDLY

Reduce carbon footprint and support a greener environment.



INCREASES VALUE

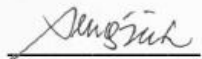
Increase property value and support sustainable development.

COMPANY POLICY

Basic Policy on Safety and Health

The Company places safety as the top priority in carrying out all business tasks, and we ensure the appropriate safety and health of all employees under the basic approach of "The employees working for Takasago Thermal Engineering and their families must never suffer from accidents at construction sites."

1. Make efforts to be considerate of others.
2. Be more danger aware.
3. Know the safety measures well.
4. Take safety seriously.



Tan Seng Teck (Mr.)
Managing Director
T.T.E. Engineering (M) Sdn. Bhd.
Date: 1st April 2025



T.T.E. Engineering (M) Sdn. Bhd.

Design on April 2025

Basic Environmental Policy

As an Environment-Creator, we strive to provide environmentally friendly technologies and services through collaboration with all stakeholders.

1. We contribute to the realization of a decarbonized, recycle-based society by promoting the efficient use of energy and resources.
2. We work to achieve efficient, optimal spatial environments through such efforts as actively deploying energy-saving technologies and optimizing building operations.
3. We strive to create new value through proactive research and development in resource recycling, energy value chains, and other areas.
4. We strive for biodiversity through initiatives to conserve water and forest resources.
5. Through the above, we promote efforts to address climate-related issues.



Tan Seng Teck (Mr.)
Managing Director
T.T.E. Engineering (M) Sdn. Bhd.
Date: 1st April 2025

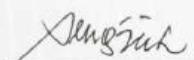


T.T.E. Engineering (M) Sdn. Bhd.

Design on April 2025

Basic Policy on Quality

1. We will strive to understand our customers' needs, and to provide optimal quality that will contribute to the corporate activities of customers.
2. We will work on consistently providing quality that exceeds customers' expectations.
3. We will advance research and development, and provide superior quality.
4. We will continuously provide services throughout the lifecycle of construction equipment.
5. So that we can move forward with these initiatives, we will set up a system of quality control and strive to continuously maintain and improve quality.



Tan Seng Teck (Mr.)
Managing Director
T.T.E. Engineering (M) Sdn. Bhd.
Date: 1st April 2025



T.T.E. Engineering (M) Sdn. Bhd.

Design on April 2025

Takasago Thermal Engineering Group Action Guidelines

1. Compliance with regulations and internal rules and behavior in line with ethical norms.
2. Thorough implementation of proper accounting processes and protection of company property.
3. Promoting fair, safe and healthy working environments.
4. Maintaining safety at construction sites and maintaining and improving quality.
5. Promotion of appropriate information management and information disclosure.
6. Maintaining appropriate relationships with customers.
7. Maintaining a fair competitive relationship with other peers in the same industry.
8. Establishing appropriate relationships with cooperative companies.
9. Consideration for social responsibility, contribution to society, and the global environment.
10. Rejecting all relationships with anti-social forces and organizations.



Tan Seng Teck (Mr.)
Managing Director
T.T.E. Engineering (M) Sdn. Bhd.
Date: 1st April 2025



T.T.E. Engineering (M) Sdn. Bhd.

Design on April 2025

QUALITY ASSURANCE

Quality Management System

Our principles of Quality Management are as follow:

- 1 Annual Policy and Plan Development**
 - i. Verify management and operational systems.
 - ii. Identify potential risk.
- 2 Implementation and Training**
 - i. Gather, share and escalate incident information.
 - ii. Implement measures.
- 3 Check and Correct**
 - i. Identify problems and causes.
 - ii. Devise preventive measures.
 - iii. Evaluate and analyse incidents.
- 4 Management Review**
 - i. Evaluate status.
 - ii. Fix the system and structure.



1

Excellent Quality



2

On Time Delivery



3

Customer Satisfaction

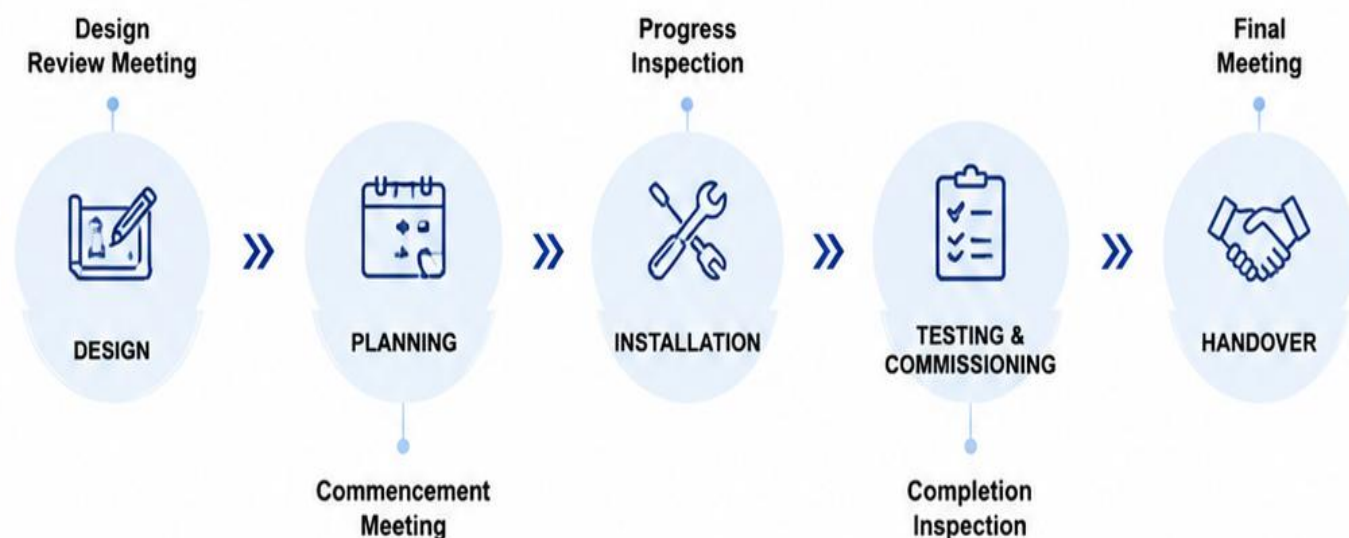


4

Continuous Improvement

Implementation of Quality Control System

We utilize an internal quality control system to ensure quality of works are maintained throughout the duration of the project.



ENGINEERING ABILITIES

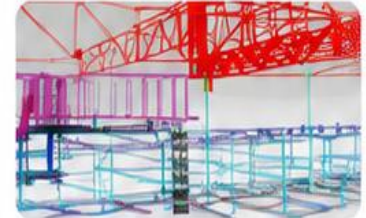
Our Engineering Abilities involve the following process:

- 1 **Design**
- 2 **Project Management**
- 3 **Project Execution**
- 4 **Installation**
- 5 **Maintenance and other related works for Industrial HVAC, Clean Room and Utilities.**

Design Classification

1. **Concept Design:**
Proposals for design concept systems, outline specifications and preliminary cost determination along with relevant Project Strategies in accordance with Design Programmed.
2. **Developed Design:**
Proposals include co-ordinated design with all relevant services systems, outline specifications, Cost Information and Project Strategies in accordance with Design Programmed.
3. **Technical Design:**
In accordance with Design Responsibility Matrix and Project Strategies to include all architectural, building and structural, and all relevant services system, specialist sub-contractor design and specifications, in accordance with Design Programmed.

01
VISUAL



02
VIRTUAL

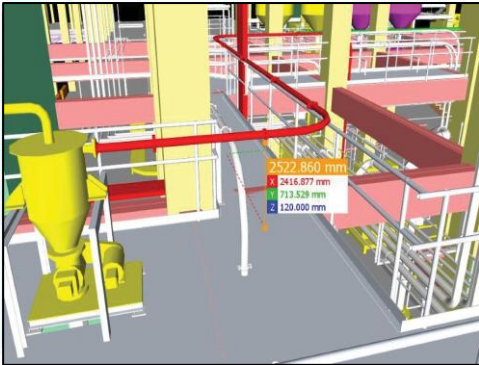
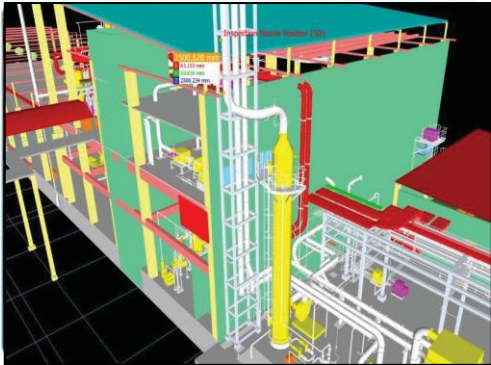


03
ACTUAL

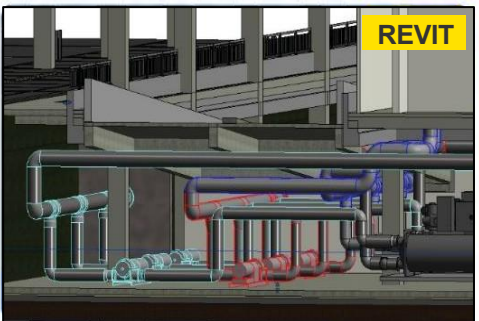
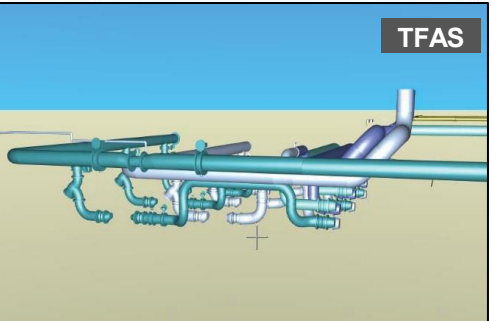


ENGINEERING ABILITIES

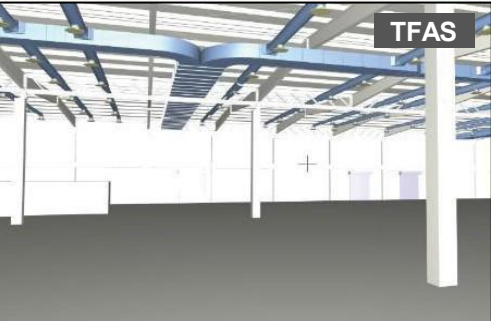
3D SIMULATION



COMPARISON OF 3D DRAWING



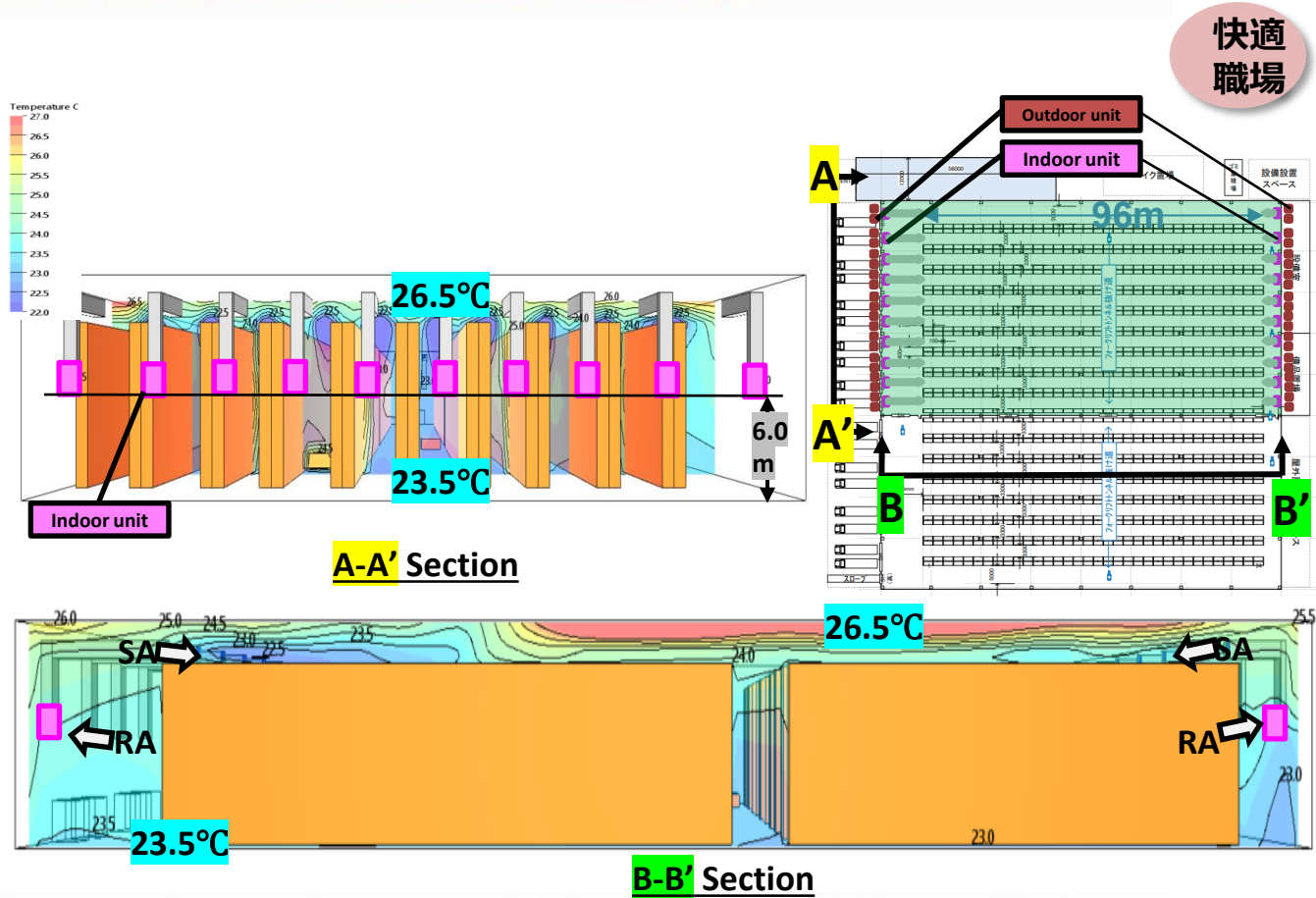
COMPARISON OF 3D DRAWING



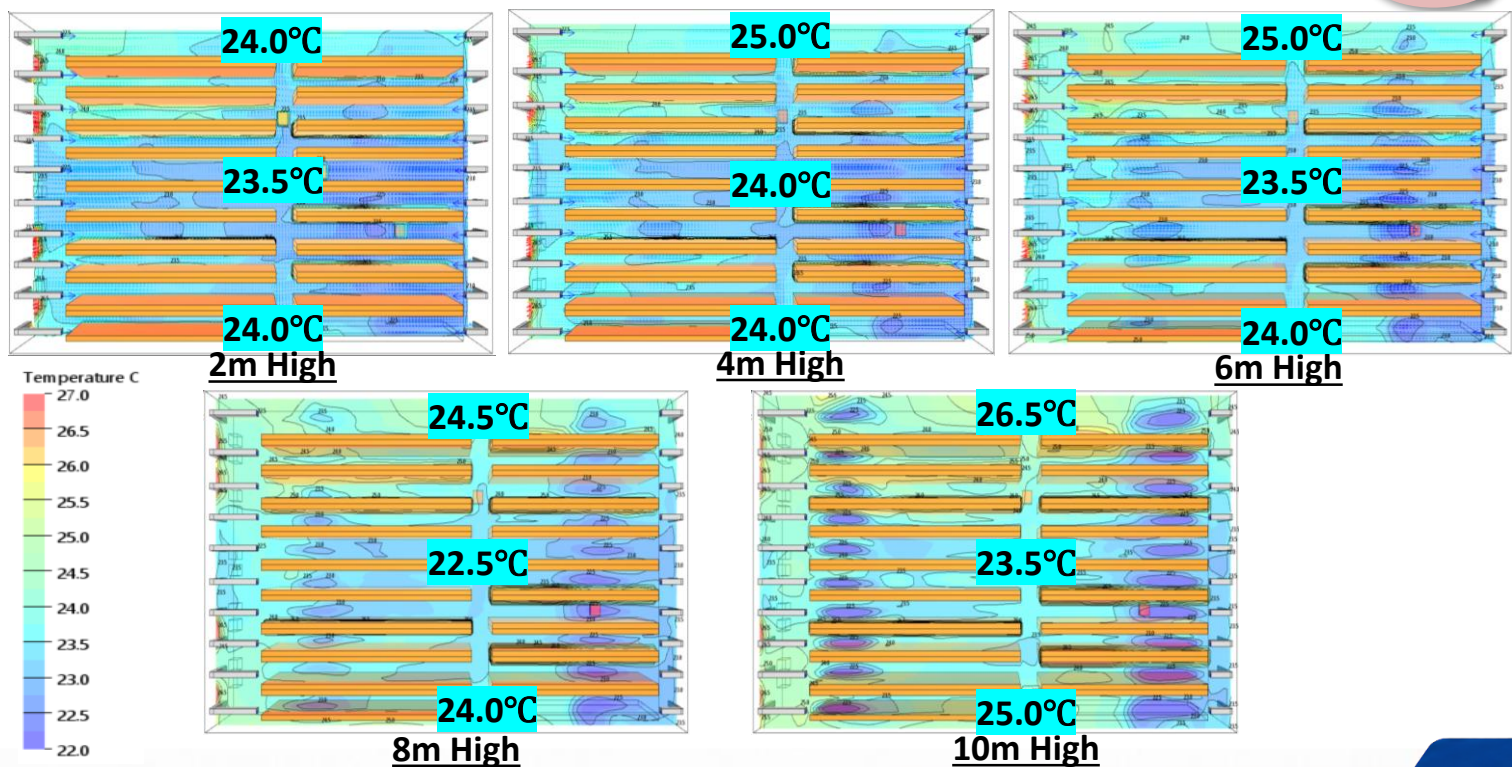
ENGINEERING ABILITIES

WAREHOUSE - AIR CONDITIONING FLOW SIMULATION (CFD- Computational Fluid Dynamics)

AIR FLOW TEMPERATURE PLAN VIEW (WITH CEILING)



AIR FLOW TEMPERATURE PLAN VIEW (WITHOUT CEILING)



STRENGTH



T.T.E. Engineering (M) Sdn. Bhd. is also committed to providing high quality of services in ensuring all projects are completed successfully and meets the highest standards of safety and quality assurance.

1 **Quality Assurance – QA / QC Team**

- Regular work progress checks.

2 **Excellent Support**

- Branches located over major cities across the country.
- More than 100 experienced local engineers.



3 **Full Support**

- Full support is also provided from our Japan Headquarters and overseas branches.
- Support provided across all Asian countries.

4 **Good Track Record and Establishment**

- Repeated customers.
- We have over 40 years establishment in Malaysia.

AWARDS AND CERTIFICATIONS

CIDB MALAYSIA

PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran : 1960910-SL005416
 Nama Kontraktor : T.T.E. ENGINEERING (MALAYSIA) SDN. BHD.
 Alamat Berdaftar : LEVEL 7, MENARA MILENIUM JALAN DAMANLELA PUSAT BANDAR DAMANSARA 50490 KUALA LUMPUR
 Daerah : KUALA LUMPUR
 Tarikh Mula Berdaftar : 23/11/1999

GRD	KATEGORI	PENGKhususan
G7	B	B04
G7	CE	CE21
G7	ME	M01 M04 M14 M15 M18

Tarikh Mula Berkuatkuasa : 27/11/2025
 Tarikh Habis Tempoh Perakuan : 23/12/2028
 STATUS: AKTIF

Ketua Eksekutif
 Lembaga Pembangunan Industri Pembinaan Malaysia
 Tarikh: 27/11/2025

CIDB – Grade, Categories and Specialization

- G7 B04 Building Construction Works
- G7 CE21 Construction of Civil Engineering
- G7 M01 Air Conditioning & Ventilation System
- G7 M15 Various Mechanical Equipment

Member of
IQNET

Building trust together.

Certificate

SIRIM GAS International has issued an IQNET recognized certificate that the organization:

T.T.E. ENGINEERING (M) SDN. BHD.
 Lot No. 01-7, 7th Floor, Menara Symphony
 No. 5, Jalan Prof. Khoo Kay Kim
 Seksyen 13
 46200 Petaling Jaya
 Selangor Darul Ehsan
 Malaysia

has implemented and maintains a
Quality Management Systems

for the following scope:
 Provision of contract services for design, installation and maintenance of mechanical, electrical systems, cleanroom and other activities related to constructions.

which fulfills the requirements of the following standard:
ISO 9001:2015

Issued on: 18 May 2026
 First issued on: 07 July 1998
 Expires on: 06 July 2028

Registration Number: **MY – QMS 00560**

Alex Stoichitoli
 President of IQNET

Ts. Md Adha Katni @ Rahmat
 Chief Executive Officer of
 SIRIM GAS International Sdn. Bhd.

SIRIM GAS

*This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.
 IQNET Members:
 AENOR Spain, AFNOR Certification France, APCER Portugal, CCC Cyprus, CIBQ Italy, CQC China, CGM China, CQS Czech Republic, Cro Cert Croatia, DQS Holding GmbH Germany, EAGLE Certification Group USA, FCAV Brazil, FONDONORMA Venezuela, ICONTEC Colombia, ICS Bolivia and Honduras, INTECO Costa Rica, IRAM Argentina, JQA Japan, KQA Korea, LSGA Uruguay, MIRTEC Greece, NSRT Hungary, NEMKO AS Norway, NSAI Ireland, NTC Mexico, PCBC Poland, Quality Australia, SAI Japan, SAI Slovenia, SIRIM GAS International Malaysia, SGS Switzerland, SRAC Romania, TSE Turkey, YUGOS Serbia

Quality Management System (ISO 9001:2015)

- IQNet and SIRIM GAS International Certificate

SIRIM GAS INTERNATIONAL

CERTIFICATE

SIRIM GAS INTERNATIONAL SDN. BHD. hereby certifies that

T.T.E. ENGINEERING (MALAYSIA) SDN. BHD.
 LOT NO. 01-7, 7th FLOOR, MENARA SYMPHONY
 NO. 5, JALAN PROF. KHOO KAY KIM
 SEKSYEN 13
 46200 PETALING JAYA
 SELANGOR DARUL EHSAN
 MALAYSIA

has implemented a management system complying with

ISO 9001:2015
 QUALITY MANAGEMENT SYSTEMS - REQUIREMENTS

Scope of Certification

PROVISION OF CONTRACT SERVICES FOR DESIGN, INSTALLATION AND MAINTENANCE OF MECHANICAL, ELECTRICAL SYSTEMS, CLEANROOM AND OTHER ACTIVITIES RELATED TO CONSTRUCTIONS.

Issue date : 18 May 2026
 Original certification date : 07 July 1998
 Expiry date : 06 July 2028
 Certificate no. : QMS 00560

MALAYSIA

Ts. Md. Adha Bin Katni @ Rahmat
 Chief Executive Officer
 SIRIM GAS INTERNATIONAL SDN. BHD.

Ketua Eksekutif
 SIRIM GAS INTERNATIONAL SDN. BHD.
 Lot No. 46200 Petaling Jaya
 1, Persiaran Damansara
 Seksyen 13
 46200 Petaling Jaya
 Selangor Darul Ehsan
 Malaysia

This certificate is granted subject to the terms and conditions as stated in the Certification Agreement.

Quality Management System (ISO 9001:2015)

- Design, Installation and Maintenance of Clean Room
- Systems, General Air-Conditioning,
- Ventilation and Exhaust Systems and Utilities

Bil: ESCO 380(2024)/29/2024

Suruhanjaya Tenaga
 Energy Commission

PENDAFTARAN
SYARIKAT PERKHIDMATAN TENAGA
(ESCO)

SURUHANJAYA TENAGA dengan ini meluluskan permohonan syarikat

T.T.E. ENGINEERING (M) SDN. BHD.
 13th Floor, Menara Choy Fook On,
 No. 1B, Jalan Yong Shook Lin,
 Section 7,
 46050 Petaling Jaya, Selangor.

untuk menjalankan kerja-kerja sebagai syarikat perkhidmatan tenaga
 berkuatkuasa dari tarikh :-

Tarikh Kelulusan : 02 Ogos 2024
 Tarikh Tamat Kelulusan : 01 Ogos 2027

Syarikat perlu mematuhi segala keperluan dan syarat-syarat sebagai
 ESCO sebagaimana yang ditetapkan seperti di muka belakang.

(DATO' IR. TS. ABDUL RAZIB BIN DAWOOD)
 Ketua Pegawai Eksekutif
 Suruhanjaya Tenaga

Tarikh: 31 Julai 2024

Energy Commission Registration (ESCO)

AWARDS AND CERTIFICATIONS



**6 Stars Achievement
In CIDB Safety And
Health Evaluation**



**6 Stars Achievement
In CIDB Safety And
Health Evaluation**



**2.5 Million Safe Man Hours And Zero
Lost Time Injury Achievement**



**Safety Appreciation
From Client**



**Outstanding Support
Appreciation From Client**

PROJECT REFERENCE

 2020

PROJECTS		LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
	Semiconductor Manufacturer	Melaka	HVAC	31,400 M ²
	Semiconductor Manufacturer	Kulim	HVAC, Clean Room	16,000 M ²

 2021

PROJECTS		LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
	Semiconductor Manufacturer	Penang	Mechanical, Electrical, Clean Room, Utilities	12,400 M ²
	Electronics Components Manufacturer	Kulim	Mechanical, Electrical, Interior Works	200 M ²
	Electronics PCB Manufacturer	Penang	Mechanical, Electrical, Utilities, Clean Room	5,800 M ²
	Semiconductor Manufacturer	Penang	Mechanical, Electrical, Utilities, Clean Room	3,000 M ²
	Semiconductor Manufacturer	Kulim	Mechanical, Electrical, Utilities, Clean Room	13,000 M ²
	Warehouse	Selangor	Cold Room	3,200 M ²

PROJECT REFERENCE

 2022

PROJECTS		LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
	Electronic Components Manufacturer	Selangor	Mechanical, Electrical	22,430 M ²
	Semiconductor Manufacturer	Penang	Electrical, Utilities	-
	Electronic Components Manufacturer	Penang	Machine Hook Up Works	-
	Semiconductor Manufacturer	Kulim	Mechanical, Electrical, Utilities, Clean Room	1,800 M ²
	Pharmaceutical Factory	Johor	Interior Works	2,100 M ²

 2023

PROJECTS		LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
	Electronic Components Manufacturer	Selangor	Mechanical, Electrical	11,000 M ²
	Semiconductor Manufacturer	Penang	Electrical, Utilities	22,000 M ²
	Semiconductor Manufacturer	Kulim	Mechanical, Electrical, Utilities, Clean Room	12,800 M ²
	Pharmaceutical Factory	Johor	Interior Works	3,300 M ²
	Automation Products Manufacturer	Kulim	Mechanical, Electrical, Utilities, Clean Room	1,510 M ²

PROJECT REFERENCE

 2024

PROJECTS		LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
	Warehouse	Selangor	Mechanical, Electrical, Fire Fighting	28,200 M ²
	Semiconductor Manufacturer	Penang / Kulim	Electrical, Utilities	22,000 M ²
	Semiconductor Manufacturer	Kulim	Mechanical, Electrical	12,010 M ²
	Embassy	Selangor	Mechanical, Electrical	2,800 M ²
	Warehouse	Kulim	Mechanical, Electrical, Sanitary & Plumbing, Civil & Structural	20,100 M ²
	Semiconductor Machine Manufacturer	Kulim	Mechanical, Electrical, Utilities	48,000 M ²
	Plant Manufacturer	Selangor	Mechanical, Electrical, Utilities	220 M ²
	Medical Products Manufacturer	Penang	Mechanical, Electrical, Utilities	160 M ²
	Automotive Parts Manufacturer	Selangor	Mechanical, Electrical, Utilities, Civil & Structural	2,750 M ²

PROJECT REFERENCE

 2025

PROJECTS	LOCATION	SCOPE OF WORKS	CONSTRUCTION AREA
 Warehouse	Selangor	Mechanical, Electrical, Fire Fighting, Sanitary, Plumbing Civil & Structural	14,635 M ²
 Semiconductor Manufacturer	Penang/Kulim	Mechanical, Electrical, Utilities, Civil & Structural	27,200 M ²
 Electronic PCB Manufacturer	Penang	Machine Hook Up Works	-
 Japan Embassy	Selangor	Mechanical, Electrical	830 M ²
 Food & Beverage Factory	Negeri Sembilan	Mechanical, Electrical, Sanitary & Plumbing, Civil & Structural	1,400 M ²
 Carbon Capture Central	Sarawak	Electrical & Instrument	600 M ²

PROJECT REFERENCES



Warehouse At Kulim Hi-Tech Park, Kedah.

SCOPE

- Building Construction
- Mechanical
- Electrical
- Fire Protection
- Sanitary
- Plumbing Works



CONSTRUCTION PERIOD
2024 - 2025



CONSTRUCTION AREA
20,100 M²



Semiconductor Factory At Kulim Hi-Tech Park, Kedah.

SCOPE

- Clean Room
- Interior Works
- Mechanical
- Electrical
- Process Utility Works



CONSTRUCTION PERIOD
2021 - 2024



CONSTRUCTION AREA
28,240 M²



PCB Factory At Batu Kawan, Penang.

SCOPE

- Clean Room
- Interior Works
- Mechanical
- Electrical
- Process Utility Works



CONSTRUCTION PERIOD
2021 - 2022



CONSTRUCTION AREA
5,900 M²



Automotive Parts Factory At Bangi, Selangor, Malaysia.

SCOPE

- Building Construction
- Interior Works
- Mechanical
- Electrical
- Fire Protection
- Sanitary
- Plumbing Works



CONSTRUCTION PERIOD
2024 - 2026



CONSTRUCTION AREA
2,800 M²

PROJECT REFERENCES



Precision Components And Devices At Bandar Sri Damansara, Kuala Lumpur.

SCOPE

- Mechanical
- Electrical System
- Upgrading Works

CONSTRUCTION PERIOD



2023 - 2024



Food And Beverage Factory At Bandar Enstek, Negeri Sembilan.

SCOPE

- Clean Room
- Mechanical
- Electrical
- Process Utility
- Fire Protection

CONSTRUCTION PERIOD



2019 - 2021

CONSTRUCTION AREA



28,240 M²

COMPANY HEAD QUARTERS

Takasago Thermal Engineering Co.,Ltd.



YEAR ESTABLISHED 1923



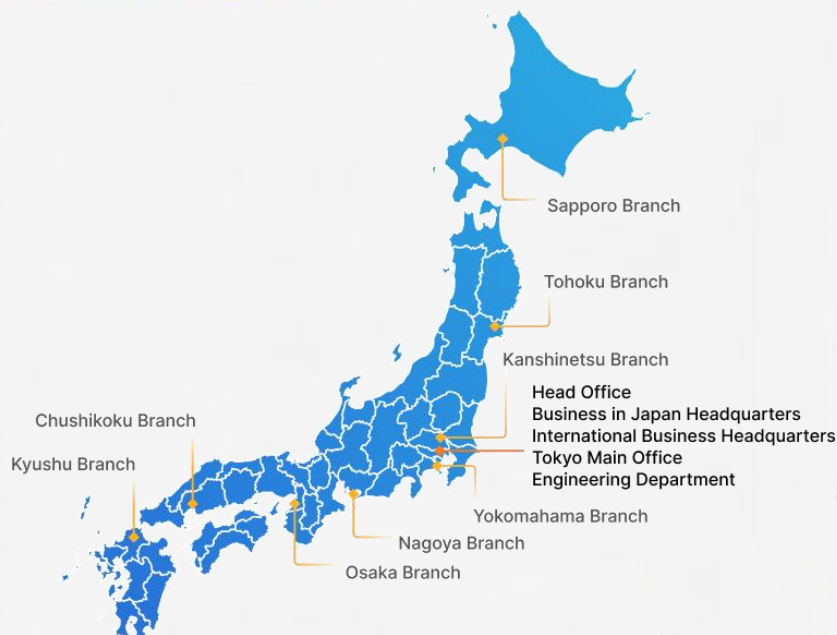
YEARLY TURNOVER > USD \$2.6 billion



DIRECT EMPLOYEES > 2,365 persons



CURRENT STATUS Listed on The Prime Section of The Tokyo Stock Exchange



The concept is “A place of **growth** where diverse people gather and develop their dreams, a place of **creation** that connects knowledge and wisdom inside and outside the company, a place of **dissemination** to expand Takasago’s technology to the world”.



• Takasago Innovation Center in Japan

International Business Network



- 1 Takasago Constructors and Engineers (China) Co., Ltd.
- 2 Takasago Singapore Pte. Ltd.
- 3 Takasago Thermal Engineering (Hong Kong) Co., Ltd.
- 4 Takasago Vietnam Co., Ltd.
- 5 Thai Takasago Co.,Ltd.
- 6 T.T.E. Engineering (Malaysia) Sdn. Bhd.
- 7 Takasago Engineering Mexico, S.A. de C.V.
- 8 Integrated Cleanroom Technologies Pvt. Ltd.
- 9 Takasago Thermal Engineering Co., Ltd. Myanmar Branch Office
- 10 PT. Takasago Thermal Engineering



We conducted tree planting and reforestation in Kuching, Sarawak as part of our Corporate Social Responsibility as part of our collaboration with UNIMAS, Japan-Malaysia Association and Takasago.

The project started in January 2018. T.T.E. Engineering (M) Sdn. Bhd. have pledged to plant approximately 25,000 trees per year at the Takasago-Unimas Educational Forest in UNIMAS (Universiti Sarawak Malaysia) compound. The area will also serve as an educational, recreational and research purposes.

CSR MANAGEMENT *(Socially Responsible Management)*



SHAREHOLDERS & GENERAL PUBLIC

Fair and highly transparent management

- Corporate governance
- Compliance
- Internal control
- Risk management
- Information management



CUSTOMERS

Further improving customer satisfaction

- Increasing added values
- Increasing product quality
- Safety & hygiene
- Research and development



ENVIRONMENT & THE FUTURE

Contribution to environmental conservation

- Reduction and management of industrial waste
- Green procurement
- Consideration for the ecosystem



EMPLOYEES

Realizing employee satisfaction

- Utilizing and nurturing human resources
- Work-life balance
- Respect for human rights
- Diversity
- Work environment



LOCAL COMMUNITIES

Harmony with society

- Social contribution
- Promotion of culture
- Local environment
- Information disclosure



MALAYSIA NETWORK

Strategically located offices to serve and support our clients nationwide with excellence and commitment.

 **Takasago**
T.T.E. Engineering (M) Sdn. Bhd.



1

HEAD OFFICE / PETALING JAYA OFFICE

Lot No 01-7, 7th Floor, Menara Symphony, No.5, Jalan Prof Khoo Kay Kim, Seksyen 13, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

Tel: +603-7955 5972



2

MELAKA OFFICE

No.1, 1-1, Jalan Komersial IAN 2, Industri Angkasa Nuri, 76100 Durian Tunggal, Melaka.

Tel: +606-334 7957



3

JOHOR BAHRU OFFICE

No. 2-01 & 2-02, Jalan Molek 1/10, Taman Molek, 81100 Johor Bahru, Johor, Malaysia.

Tel: +607-354 1139



4

PENANG OFFICE

02-16, Udini Square, Lebuh Tunku Kudin 3, 11700 Gelugor, Penang.

Tel: +604-608 6430



5

KULIM OFFICE

No. 35, Tingkat Bawah & Tingkat Satu, Persiaran 7, Kulim Avenue, Kulim Hi Tech Park, 09000 Kulim, Kedah Darul Aman.

Tel: +604-492 4426



6

BATU KAWAN OFFICE

No. 1, 1st & 2nd Floor, Lorong Bagan Tambun, Taman Bagan Tambun, 14100 Simpang Ampat, Penang.

Tel: +604-505 7998





Takasago

T.T.E. Engineering (M) Sdn. Bhd.

198001010378 (64160K)

Engineering Excellence.
Building a Better Tomorrow.



+603 -7955 5972



enquiry@tte-net.com