



The quality you can trust.



MANTRA SWITCHGEAR CO.,LTD.

COMPANY PROFILE



ISO9001



ISO14001



ISO45001

Switchboard Manufacturing | Service and Maintenance | Commissioning Works
Engineering and Design | Supply of Electrical Equipment

Approved
Partner

SIVACON S8
SIMOPRIME WORLD
SIMOPRIME A4

SIEMENS



Introduction

MANTRA SWITCHGEAR CO., LTD. was established in 2001 by a group of engineers, technicians and electrical specialists who have had extensive experiences in the field of electrical switchboard production for more than 20 years. Having worked with various leading electrical engineering firms both in Thailand and overseas, these men gained extensive skills and expertise in designing and manufacturing high-quality switchboards to comply to all international standards especially IEC.

Our commitment on work quality and reliability has resulted in the trusts, bestowed upon us to supply electrical control panels in wide-range of applications, including factories, frigates, infrastructure facilities and power plants.

Our philosophy is to continually develop and improve the quality and features of the switchboard to ensure that the product is safe to use, suitably designed to serve the needed functions and requirements so that customers can have maximum satisfaction and highest value for their investment.

We always focus on the betterment of production, design and service by improving the production facilities, upgrading the machines, developing our own original design of switchboards and purchasing the production licenses for new types of both MV (medium-voltage) and LV (low-voltage) panels.



In 2003, we sent our original-design, indoor-type, electrical panel, “MTLV-400 Series” for type-testing at CESI (Centro Elettrotecnico Sperimentale Italiano Giancinto Motta SpA) which is one of the biggest testing institutes in Europe. The panel passed the test.

Again in 2004, the same model of electrical panel (outdoor type) which was to be used at the Suvarnabhumi International Airport, passed the type-testing at CESI.

In 2010, we were certified ISO 9001 : 2008 --- The Quality Management System.

In 2011, we acquired the production license from SIEMENS Ltd. in Germany, to produce SIVACON S8 Low-Voltage Electrical Switchboard. After the training in Germany was complete, the production started outright. Within 3 years, more than 1,000 SIVACON Panels have been manufactured by MANTRA.

The year 2014 has marked a milestone for significant developments in all areas of work for us.

We have obtained the license from SIEMENS to produce **SIMOPRIME WORLD** and **SIMOPRIME A4** Medium-Voltage Switchboard (3.3kv-17.5kv) and upgraded the **SIVACON S8** License to manufacture the low-voltage switchboard for marine and offshore use.

Another pride for us is the certification of ISO 14001 (Environmental Management System) and ISO 45001 (Occupational Health and Safety Management System), which ensure that our production and business activities do no harm to the environment and the production people.



Products and Services

1. Medium-Voltage (MV) Switchboard

1.1 Licensed Product – SIEMENS SIMOPRIME World (12kv), SIMOPRIME A4 (24kv)

- 1.2 Fixed type up to 36 KV with VCB, SF6-CB, LBS or FLBS
- 1.3 Draw-out type up to 36 KV with VCB, VCS, Isolator switch

2. Low-Voltage (LV) Switchboard

2.1 Licensed Product – SIEMENS SIVACON S8 (including marine and offshore type)

- 2.2 Main Distribution Board up to 7400A, Form-4
- 2.3 Motor Control Center, Fixed-Type and Draw-Out Type up to 4000A, Form 4
- 2.4 Sub-distribution Panel, Floor and Wall-Mounted
- 2.5 Control and Protection Panel (Swing rack or Duplex type)
- 2.6 Marshalling Panel
- 2.7 PLC Panel
- 2.8 Load Center
- 2.9 Transformer Housing
- 2.10 Container Substation
- 2.11 Unit Sub-station
- 2.12 Synchronizing Panel
- 2.13 Electrical House for RTG Crane
- 2.14 Soft-Starter Panel
- 2.15 VSD Panel
- 2.16 Capacitor Panels

3. Bus Duct

4. Other Products and Services

- 4.1 Cabinet Rack 19"
- 4.2 Metal Parts
- 4.3 Racks for Telecommunication System
- 4.4 Control Desk
- 4.5 Engineering and Commissioning Service



Test Certificates

- CESI (Centro Elettrotecnico Sperimentale Italiano
Giancinto Motta SpA)
- Testing Laboratory, Faculty of Engineering,
Chulalongkorn University
- MEA's Electrical Equipment Testing Division,
Research and Development Dept.
- EGAT Electrical Test Institute

Type-Test Certificate from CESI for Mantra's Switchboard Model MTLV-400 Series

- Verification of Temperature-Rise Limits
- Verification of Dielectric Properties
- Verification of the Short-Circuit Withstand Strength
(80kA 5000A)
- Verification of the Effectiveness of the Protective
Circuit
- Verification of Clearances and Creepage Distances
- Verification of the Degree of Protection IP 54

Test Certificate from Testing Laboratory, Faculty of Engineering, Chulalongkorn University

- Verification of Dielectric Properties
- Verification of Basic Impulse Level Voltage(BIL Test)
at 150KV
- Tested Switchboard : 24kV MV Switchboard
Model 8AA10T

Test Certificate from MEA's Electrical Equipment Testing Division, Research and Development Dept.

- Regular Safety Test based on MEA's Standard
- Tested Switchboard : Load Center 42 CCTS / 250A.

Test Certificate from EGAT High Voltage Equipment Testing Section, High Voltage Teting Department, Transmission System Maintenance Division

- Short-Duration Power-Frequency Withstand Voltage
Test (50kV)
- Lighting Impulse Withstand Voltage Test (125kV)

Tested Switchboard : Metering Panel Model 8MPT 24KV

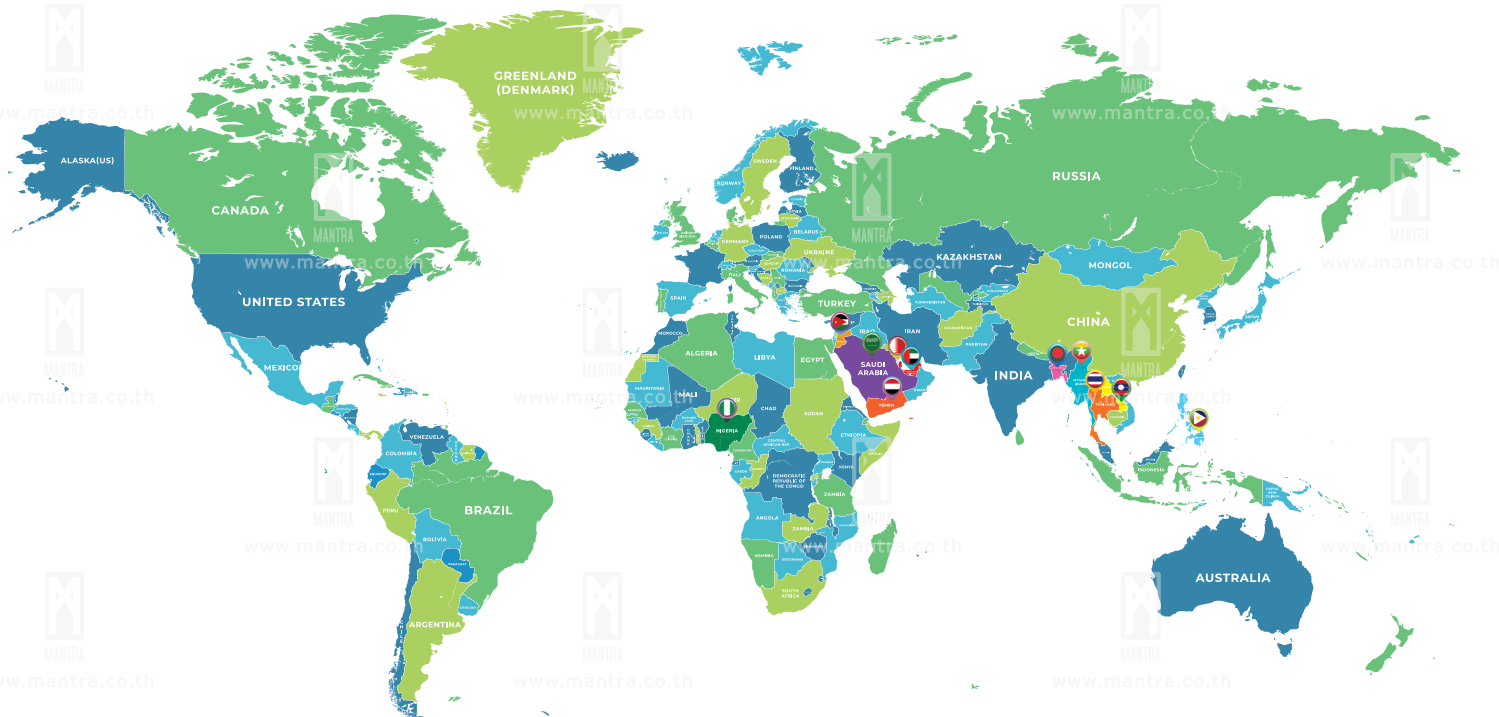




Accreditations and Licenses

- ISO 9001 --- Quality Management System
- ISO 14001 --- Environmental Management System
- ISO 45001 --- Occupational Health and Safety Management System

- SIEMENS SIVACON S8 Partner (for Low-Voltage Switchboard)
- SIEMENS SIMOPRIME WORLD (for Medium-Voltage Switchboard)



Project Reference

Overseas Projects and Users:



Our switchboards are used in the following industries:



By...





MANTRA SWITCHGEAR CO., LTD.

Production Base

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