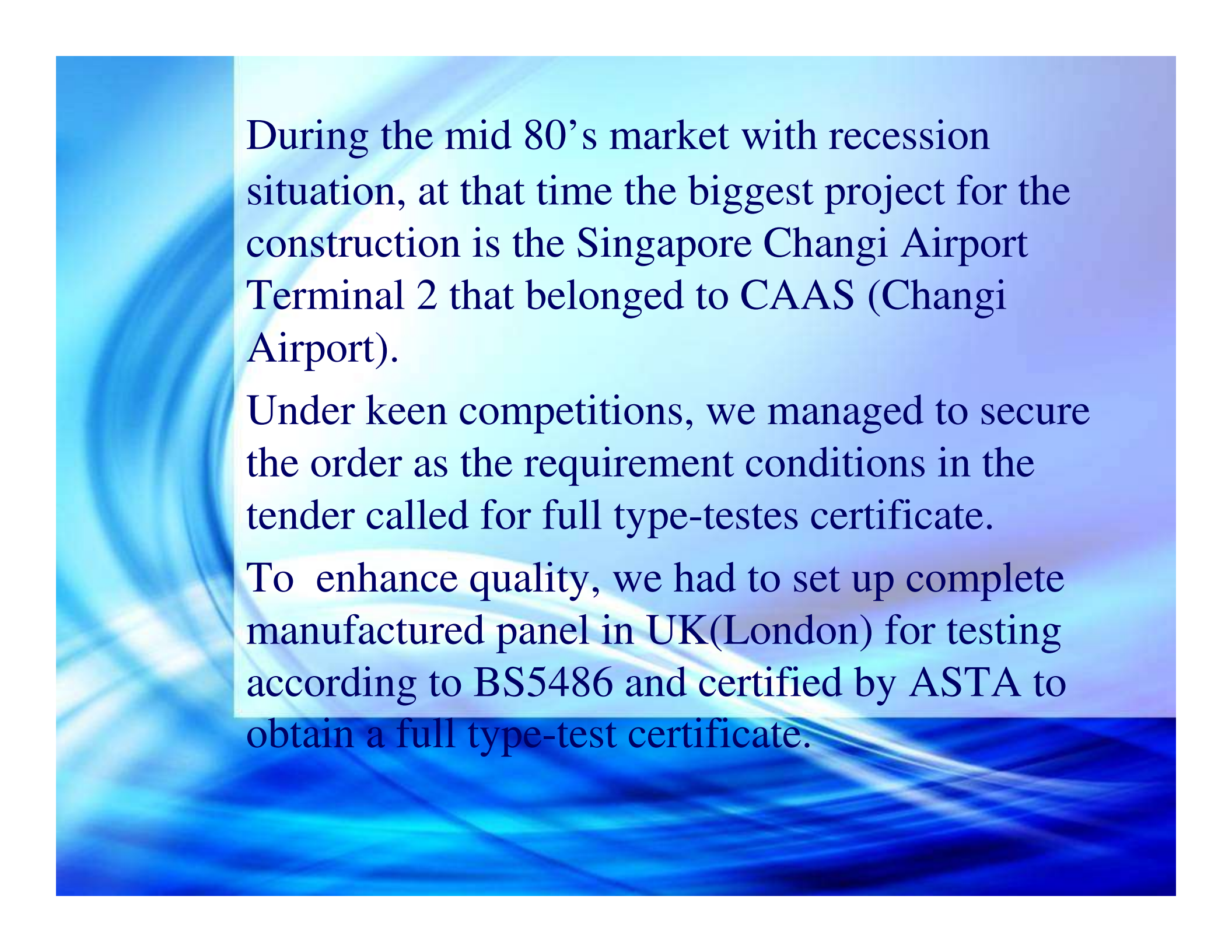


The background is a vibrant blue with dynamic, flowing light streaks and a subtle grid pattern, creating a sense of motion and technology.

**STAY AT THE CUTTING
EDGE OF TECHNOLOGY**

**Innovative Developer
Technologies (s) Pte Ltd.**



During the mid 80's market with recession situation, at that time the biggest project for the construction is the Singapore Changi Airport Terminal 2 that belonged to CAAS (Changi Airport).

Under keen competitions, we managed to secure the order as the requirement conditions in the tender called for full type-testes certificate.

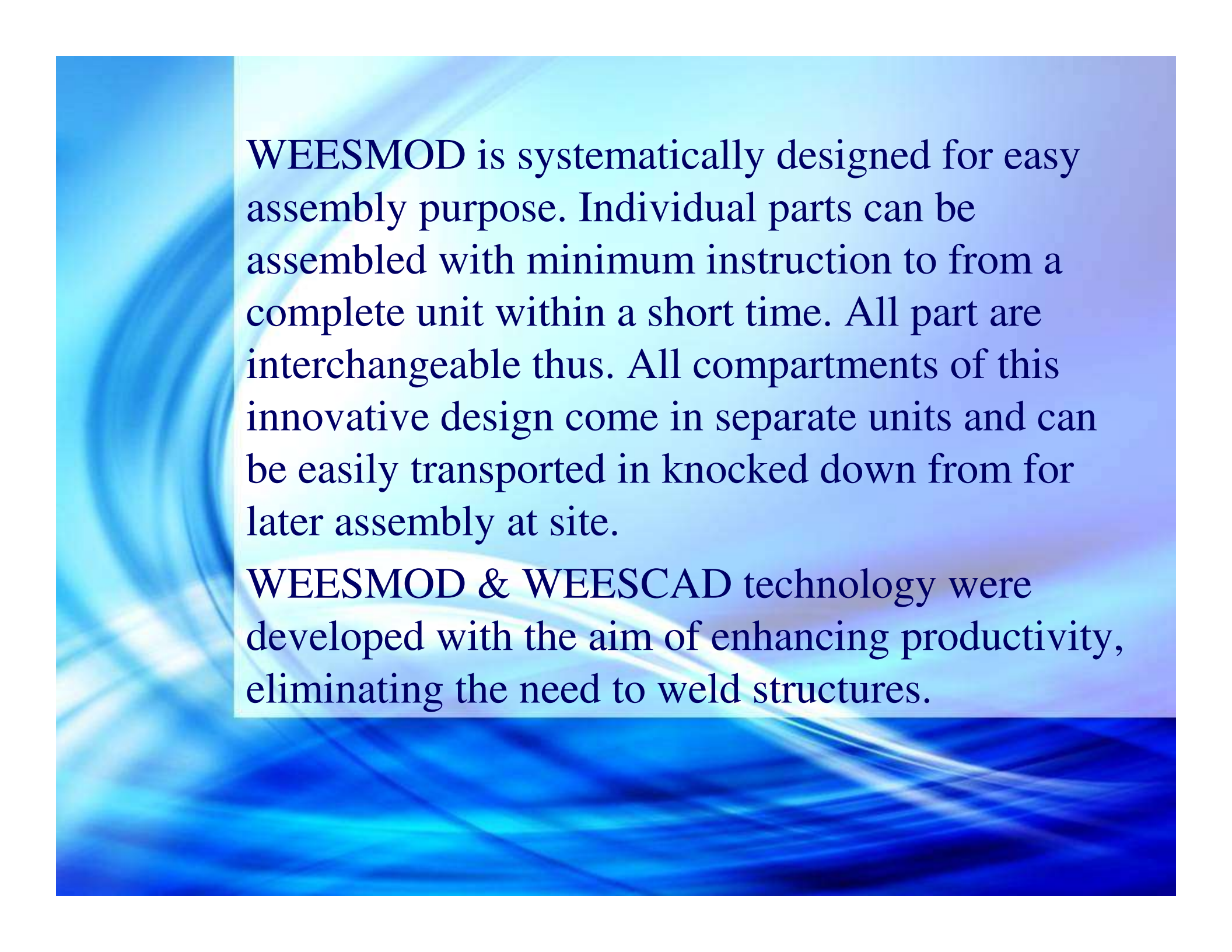
To enhance quality, we had to set up complete manufactured panel in UK(London) for testing according to BS5486 and certified by ASTA to obtain a full type-test certificate.

STAY AT THE CUTTING EDGE OF TECHNOLOGY

To stay ahead of the market, we developed a knock down structure to fabricate switchboard easily at a faster pace known as WEESMOD.

WEESMOD was initiated by a group of qualified engineers headed by a professional designer to develop a unique and versatile modular system in switchboard fabrication for all applications.

The whole concept of the design was based on stainless steel corners of which we own the patent.

The background of the slide is a vibrant blue with abstract, flowing light streaks and patterns, creating a sense of motion and technology.

WEESMOD is systematically designed for easy assembly purpose. Individual parts can be assembled with minimum instruction to form a complete unit within a short time. All parts are interchangeable thus. All compartments of this innovative design come in separate units and can be easily transported in knocked down form for later assembly at site.

WEESMOD & WEESCAD technology were developed with the aim of enhancing productivity, eliminating the need to weld structures.

WESSMOD Outstanding Feature:

- A versatile and flexible (knockdown) modular system which allows for extension to meet any requirement.
- Structures are engineered to meet standard of IEC 439 from 1 to 4
 - Up to 600V AC 50-60 Hz
 - Main distribution panel
 - Motor control centres (fixed and withdrawal)
- Incorporating a sophisticated busbar structure to withstand a higher fault level up to 80kA certified and tested by ASTA for full compliance to BS5486 IEC 439
- Sturdily constructed to take the impact in the most rugged environments

WESSMOD Outstanding Feature:

- Aesthetically well prescribed flush-mounted doors with hidden heavy-duty specially design hinges to enable doors with an opening 90° or 120°
- Built with various combinations to adapt to all environment, such as front door/cover
 - IEC 529 index code up to IP45
- Treated with epoxy powder paint to prevent rust and other damages caused by atmospheric conditions.

WEESMOD switchboard which is designed and built according to IEC 439 and BS 5486 standard has been successfully tested by independent testing authority known as ASTA (UK). The following certificates are its achievements:

Cert.no.	Fault Level	Amp	Remarks	Authority
10675	36KA 3 sec	1250	Fully type-testes	ASTA
10683	36KA 3 sec	2500	Fully type-testes	ASTA
10684	65KA 3 sec	2500	Fully type-testes	ASTA
10685	80KA 3 sec	2500	Fully type-testes	ASTA
9744	50KA 3 sec	1800	Partially type-testes	ASTA
9745	50KA 3 sec	3150	Partially type-testes	ASTA
1025	216Pk KA 0.1 sec	4000	Partially type-testes	BSCTS

WEESCAD

After several numbers of years of hard work in research and developments in the WEESCAD Software state of art of Electrical Switchboard Manufacturing, we are now able to solve any major switchboard manufacturing problems.

- **Design & Estimation**
- To assure profit margin for every project, one must be able to generate a complete detailed drawing in an early stage of quotation with all factors known such as:
 - Electrical Component
 - Busbar
 - Structure
 - Labour

STAY AT THE CUTTING EDGE OF TECHNOLOGY

Manufacture

- Able to shorten the conventional manufacturing process such as;
- Manual Design & Drafting
- Cubicle Fabrication
- Assembly of panels
- Bus-bar Manufactures
- Electrical Control Wiring and
- Testing & Commissioning

STAY AT THE CUTTING EDGE OF TECHNOLOGY

Finance Control Quality

- In order to manage properly and finance control quality, we must do the following
 - Minimize Material Wastage:
 - Lower inventory level on electrical components.
As thy required for cubicle fabrication in the later stage of production:
 - Increased productivity

STAY AT THE CUTTING EDGE OF TECHNOLOGY

Quality/ Standard

- If any of you are unable to achieve standard compliance for short circuit and temperature rise, rest assured now, as our Transfer of Licensee for knowledge and know-how of type-tested switchboard will solve the above problems.
- To achieve business advancement and success.
WEESMOD Hardware CKD to solve the Electrical Switchboard for Metal structure part and **WEESCAD** Software State of Art of Electrical Switchboard Manufacturing are above problems.

STAY AT THE CUTTING EDGE OF TECHNOLOGY

The switchboard requirements are normally tailor-made to order which gives the manufacturer unknown factors in manufacturing switchboards.

Our package basically aims at solving the unknown difficult problems that often occur in switchboards to standardize switchboard manufacturing.

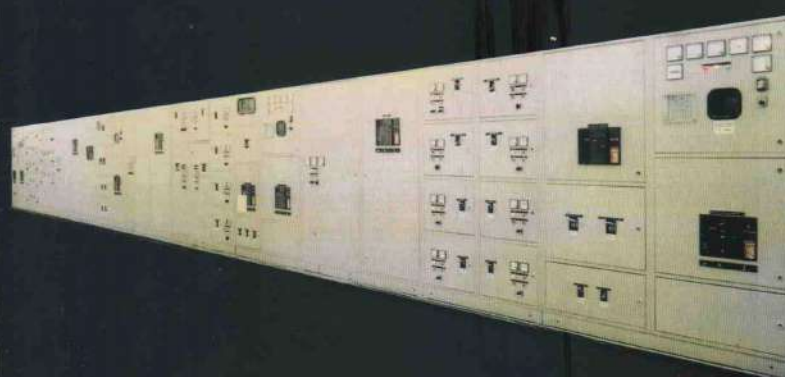
Our switchboard packages definitely help to increase productivity and needless to say, higher profits for the project involved.

STAY AT THE CUTTING EDGE OF TECHNOLOGY

WEESCAD software has its own artificial intelligence and is able to transform raw technical specification input into a 3-D drawing automatically. This has been recognized by the renown drafting package developer, Autodesk California as one of its third party software developer which enable us to utilize the logo Autodesk.

WeesMod

SETTING THE DIRECTION FOR ELECTRICAL SWITCHBOARD MANUFACTURER



WeesMod Outstanding Features

- A versatile and flexible (knockdown) modular system which allows for extension to meet any requirements.
- Structures are engineered to meet standard of IEC 439 form 1 to 4.
Up to 660V AC 50 ~ 60 Hz.
Main distribution panel
Motor control centres (fixed and withdrawal)
- Incorporating a sophisticated busbars structure to withstand a higher fault level up to 80kA certified and tested by ASTA for full compliance to BS 5486 / IEC 439
- Sturdily constructed to take the impact in the most rugged environments.
- Aesthetically well prescribed flush-mounted doors with hidden heavy-duty specially designed hinges to enable doors with an opening 90 degrees or 120 degrees
- Built with various combination to adapt to all environments, such as front door / cover or back door / cover.
IEC 529 Index code up to IP 45.
- Treated with epoxy powder paint to prevent rust and other damage caused by atmospheric conditions.
- **WeesMod** Computer Aided Package for the State of Art Manufacturing

MAIN STRUCTURE

General

The structures are mainly fabricated from electro galvanized steel sheets precision punched and formed according to design. Unlike usual conventional cubicle structures, the *WEESMOD* uses in its fabrication, machinery that is equipped with the latest technology for its parts formation. The strength of the *WEESMOD* cubicle lies in its corner parts (WM01). Here, special investment castings of stainless steel 304 can undertake the duty of holding the whole cubicle in its place sturdily. One of the main features of the *WEESMOD* cubicle is that it was designed with emphasis on aesthetic considerations. This is evident in the uniformity of flush mounted doors and well concealed heavy duty hinges that the system uses.



Strength and Durability

In addition to the WM01 corners, special busbar support system design, coupled with rugged hinges and locks further enable the *WEESMOD* cubicles to withstand higher fault levels in compliance with BS5486 Part 1 (1986) and IEC 439 (1985) and a short time current capacity of 50kA for 3sec. And 80kA for 1sec. *WEESMOD* components have been certified, tested and approved by ASTA of the United Kingdom. *WEESMOD* busbar systems are superior to other systems in the fact that it operates in a temperature of 110°C, thus allowing the busbars to carry higher current of the same dimension.

Being flexible in design, *WEESMOD* components can be manufactured to meet all classes of protection in accordance with Protection Classification BS 5490 (1977) and IEC 529 (1970).

WeesMod

MAIN STRUCTURE



TYPICAL LV ELECTRICAL POWER DISTRIBUTION PANEL

DESIGN ACCORDING TO IEC 439/BS5486 FORM 3

WeeMod

WeeMod

Singapore-made to international standards.



Outstanding Features

- Incorporating a sophisticated bus-bars structure to withstand a higher fault level
- A versatile and flexible modular system which allows for extension to meet new requirements.
- Sturdily constructed to take the knocks in the most rugged environments.
- Treated with epoxy paint to prevent rust and other damage caused by atmospheric conditions.

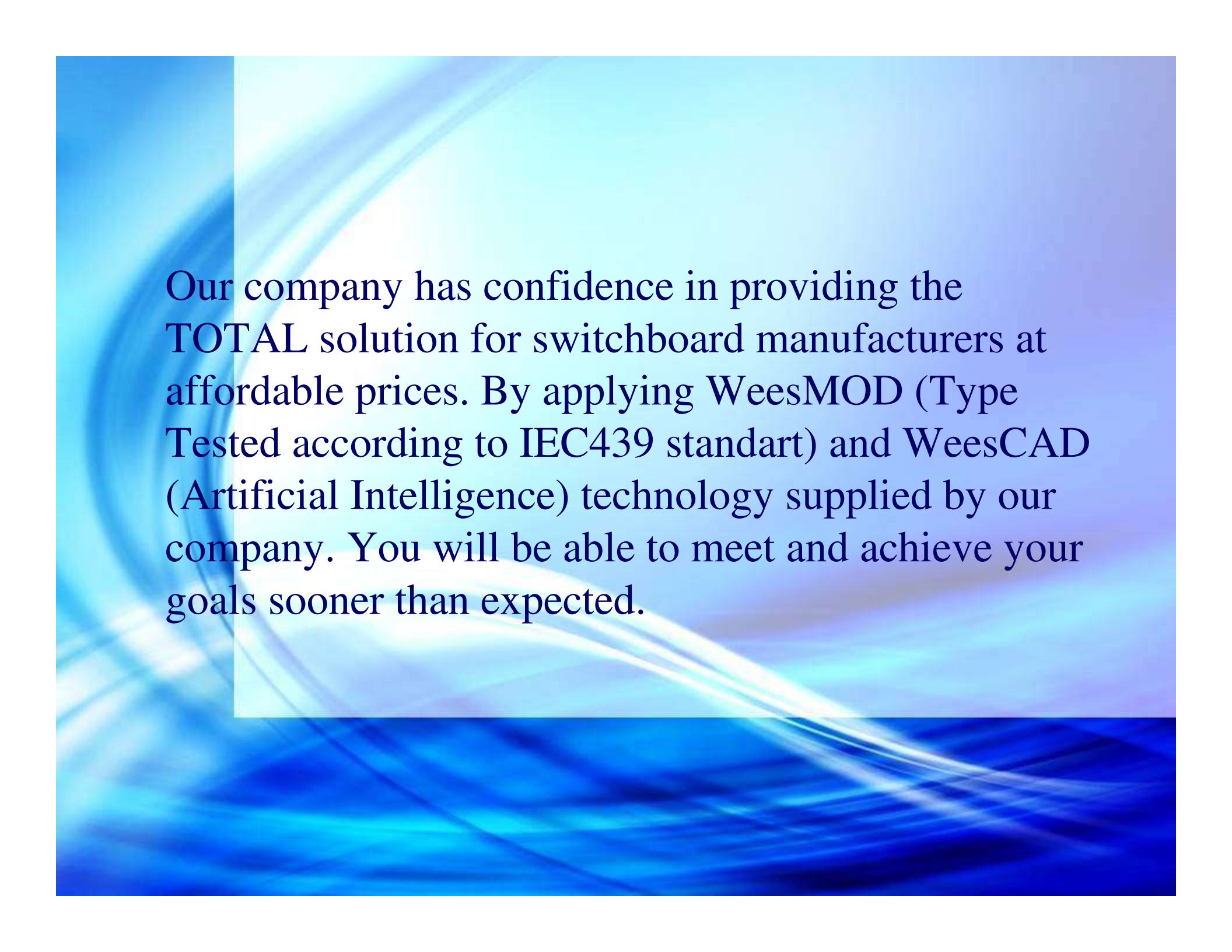
TECHNICAL DATA

A photograph of a white metal shelving unit. It features a long, low profile with a series of vertical dividers creating several compartments. Each compartment has a flat metal shelf. The unit is constructed from a white-painted metal frame, likely steel or aluminum. The background is a plain, light-colored wall.

The drawing shows a technical representation of a beam. The top part is a plan view (top-down) showing a rectangular beam with a total length of 2100 mm and a width of 150 mm. It features a series of rectangular notches along its length. Dimensions for the notches and their spacing are provided: notch width is 30 mm, notch depth is 10 mm, and the distance between notches is 75 mm. The beam has a total length of 2100 mm and a width of 150 mm. The bottom part is a side view (elevation) showing the beam's profile. It has a total length of 2100 mm and a height of 35 mm. The notches are shown in profile, with a depth of 10 mm. A detail diagram (Plan View) is shown to the left, providing a magnified view of the notches. It shows the notches are spaced 75 mm apart and have a width of 30 mm. The detail diagram also shows the notches are 10 mm deep. The material is specified as Glass-Reinforced Duroplastic Polyester-BMC, German Standard DIN 16 911.

In the interest of design improvements, we reserve the right to change these specifications.

Manufacturer



Our company has confidence in providing the TOTAL solution for switchboard manufacturers at affordable prices. By applying WeesMOD (Type Tested according to IEC439 standart) and WeesCAD (Artificial Intelligence) technology supplied by our company. You will be able to meet and achieve your goals sooner than expected.



If you have any queries or need further information please feel free to contact us at Innovative Developer Technologies (s) Pte Ltd. PO Box 306 Upper Bukit Timah.

Singapore 915811 Tel(65) 774 6606

Email idt@pacific.net.sg or visit our homepage at <http://home3pacific.net.sg>

REFERENCES PROJECT FOR INDUSTRY

NAME OF PROJECT	COUNTRY
• Pacific Hardwoods Sdn.Bhd Sabah- Malaysia	Lahad Datu
• Hua Seng Group Malaysia	Sibu,Serawak-
• Food Cannery Factory	Maldives
• Coca Cola Plant	Maldives
• Jordan Timber Processing Co	Aqaba- Jordon
• General Electrical Company Bangladesh	Dhaka-
• Santa (PNG) Pte Ltd Guinea	Papua New

REFERENCES PROJECT FOR HOTELS & COMMERCIAL BUILDING

NAME OF PROJECT	COUNTRY
• Bedok Court	Singapore
• Bank of America (Cliffort Center)	Singapore
• Citi Bank	Singapore
• Golden Mile Complex	Singapore
• Ngee Ann City	Singapore
• Parisian Condominium	Singapore
• Paradiz Center	Singapore
• Rayal Holiday Inn Hotel	Singapore
• Singapore Airline	Singapore
• Singapore Airline Training Centre	Singapore
• Tanah Merah Country Club	Singapore
• Wisma Atria Building	Singapore

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- Plaza Indonesia
Indonesia Jakarta-
 - PT.Sarinah Jaya
Indonesia Jakarta-
 - Hotel Kapuas
Indonesia Pontianak-
 - Malayan Bank Head Office
Malaysia Kuala Lumpur-
 - Ailee Development Corporation
Seycelles
 - Bank of China
Macau
 - Tim Shui Wei
Hongkong Mongkok-
 - Yan Yuan Hotel
China
 - Yuan Yan Int'l Hotel
Thianin- China

REFERENCES PROJECT FOR INDUSTRY

NAME OF PROJECT	COUNTRY
• Cold Storage Dairies Pte Ltd	Singapore
• Chartered Industries Pte Ltd	Singapore
• F&N (S) Pte Ltd	Singapore
• Fullmark	Singapore
• GE Consumer	Singapore
• Kung Keng Textile Co.Pte.Ltd	Singapore
• Leblond Makino Asia	Singapore
• Medermott (SEA) Pte Ltd	Singapore
• National Iron & Steel Mills	Singapore
• Nichiban	Singapore
• Nixdorf Computer International (S) Pte Ltd	Singapore
• Rollie Singapore	Singapore
• Selco Shpyard	Singapore
• SumiDurez Singapore Pte	Singapore

- Tai Hung Glas Pte Ltd Singapore
- Tien Wah Press Pte Ltd Singapore
- Van Der Horst Ltd Singapore
- Westinghouse Industry Services Singapore
- Yorkool Pte Ltd Singapore
- Alfa Laval SEA Pte Ltd Indonesia
- ARCO
Indonesia
- PT.Wapoga Mutiara Timber Indonesia
- International Timber Corporation
Indonesia Balikpapan-
- PT.Citra Tubindo
Indonesia Batam-
- PT.Bogasari Flour Mills
Jakarta,Surabaya- Indonesia
- PT.Dwi Lestari Nusantara
Indonesia Jakarta-

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- PT.Sari Husada
Indonesia Yogyakarta-
 - PT.Karimun Granite
island- Indonesia Karimun
 - Poly Resources Pte Ltd Karimun
island-
Indonesia
 - PT.Delta Sandawood
Indoneisa Marunda-
 - PT.Astana Bajong Permai
Indonesia Pontianak-
 - PT.Maraga Daya
Indonesia Pontianak-
 - Mitsubishi Heavy Industries
Indonesia Prosea-
 - Indorayon (IIU)
Indonesia Prosea-
 - PT.Gany Mulia Sejahtera
Indonesia Samarinda-

- PT.Hartaty Jaya Plywood
Indonesia
- PT.Tirta Mahakam Plywood
Indonesia
- PT.Andatu LEstari Plywood Mill
Indonesia
- PT.Ubbi Mekar Tembilahan
Indonesia
- PT.Padeco
Indonesia

Samarinda-

Samarinda-

Sumatra-

Sumatra-

Sumatra-

REFERENCES PROJECT FOR UTILITIES & STATUTORY BOARD

NAME OF PROJECT	COUNTRY
• Bnei& Pioneer Sewage Pumping Station- MOE	Singapore
• International Road Pumping Station- MOE	Singapore
• Kampong Bahru Pumping Station- MOE	Singapore
• Kim Chuan Tranfer Station- MOE	Singapore
• Kranji Sewage Treatment Plant- MOE	Singapore
• Mugliston Park Pumping Station- MOE	Singapore
• Paya Lebar Pumping Station- MOE	Singapore
• Seletar & Bedok Water Scheme- MOE	Singapore
• Tuas Ineinerator- MOE	Singapore



• Ulu Pandan Sewege Treatment Plant- MOE	Singapore
• Ang Mo Kio Telephone Exchange- TAS	Singapore
• City South Telephone Exchange- TAS	Singapore
• Geylang Exchange- TAS	Singapore
• Jurong- TAS	Singapore
• Orchard Exchange- TAS	Singapore
• Telecentre Blk C-TAS	Singapore
• Woodland Exchange- TAS	Singapore
• Rochor Complex- URA	Singapore
• Kampong Java Sub-station- PUB	Singapore
• Pasir Panjang Power Station- PUB	Singapore
• Bukit Purmei Post Office- PWD	Singapore
• Catholic High School- PWD	Singapore

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- Changi Airport Terminal 2- PWD (CAAS) Singapore
 - College of Physical Education- PWD Singapore
 - Empress Place- PWD Singapore
 - Faculty of Medicine- PWD Singapore
 - Fullerton Building- PWD Singapore
 - General Hospital- PWD Singapore
 - Hongang Junior College- PWD Singapore
 - Hwa Chong Junior College- PWD Singapore
 - Singapore Indoor Stadium- PWD Singapore
 - Tampines Junior College- PWD Singapore
 - Tan Tock Seng Hospital- PWD Singapore

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- Jurong Town Corporation Singapore
 - Generators Panel- SESCO Kuching-
Malaysia
 - Johore River Pipeline Boosting Scheme- PUB Johore-
Malaysia
 - Batam Authority Batam-
Indonesia
 - East Bandung Sewage Treatment Bandung-
Jakarta
 - Brunei Airport- Hangar Brunei
 - STO Seeretary Building- Maldives Government Maldives
 - Kurumba Village- Maldives Government Maldives
 - Hong Kong Telephone Exchange Hongkong