THAWORNCHAI COMPANY LIMITED

บริษัท ถาวรชัย จำกัด

COMPANY PROFILE
2026



ENGINEERING · PROCUREMENT · CONSTRUCTION

COMPANY PROFILE

13 yrs In operation

30+ Projects delivered

60+ Tanks fabricated

5,000+ t Steel fabricated

TANKS · SPHERES · PIPING · STEEL STRUCTURES

Engineering, fabrication and field construction for oil & gas, industry, water treatment and data centers across Thailand, from our base in Ban Chang, Rayong.


WWTP TANKS · UNITHAI


JET FUEL PIPELINE · U-TAPAO


TES TANKS · HUAWEI

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EMAIL
vorachet.thawornchai@gmail.com

FACEBOOK
/thawornchaicompany

SHEET 01

COMPANY BACKGROUND

Thawornchai Company Limited was established in 2013 with a registered capital of 2 million Baht. We started as a provider of specialized engineering, fabrication, project management and related services for the construction and maintenance of oil and gas facilities.

Our scope covers civil, piping, steel structure, electrical and instrumentation works. From our base in Ban Chang, Rayong, at the heart of the Eastern Seaboard, we serve petrochemical, energy, industrial and infrastructure clients across Thailand.

Company information

Company name	Thawornchai Company Limited
Registered address	178/282 Moo 5, Tambon Banchang, Amphoe Banchang, Rayong 21130
Registration no.	0215556006154
Tax ID	0215556006154
Registered capital	2,000,000 Baht
Established	13 August 2013
Board of Directors	Mr. Vorachet Thaworn, Managing Director
Facebook	facebook.com/thawornchaicompany

13
Years in operation

30+
Projects delivered

60+
Tanks fabricated & erected

5,000+ t
Steel fabricated & erected

30,000+ DB
Piping installed, diameter-inch

FOUNDED 2013

Tanks & terminals

First projects: oil storage tank improvement for Thai Public Port and LPG spheres at PTT Khao Bo Ya.

GROWTH

LNG & export fabrication

Steel structure and tank packages for Ichthys LNG, Wheatstone, Roy Hill and Cape Lambert via BJC Heavy Industries.

TODAY

Data centers & industry

Thermal energy storage tanks for Huawei data centers, wastewater treatment plants for Araya and Unithai, plus piping and structural work for TOA Paint and INSEE.


ARAYA CENTRAL WWTP


WHEATSTONE LNG TANK


BKK02 · HUAWEI

SHEET 02

SERVICES & PRODUCTS

PLAN

Project Management

Scheduling, cost control, QA/QC and safety management from kickoff to handover.

DESIGN

Engineering

Tank, piping and steel structure design, shop drawings and fabrication details.

SOURCE

Material Procurement

Plate, pipe, structural sections and equipment in carbon steel (SS400) and stainless (SUS304).

BUILD

Fabrication

Cutting, rolling, fit-up and welding in shop or on site, with blasting, primer and coating.

INSTALL

Field Construction

Site erection of tanks, spheres, pipe racks and structures, plus civil and mechanical works.

SUSTAIN

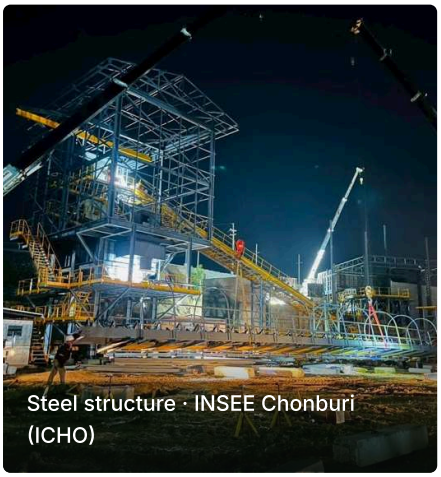
Tank Maintenance

Inspection-driven repair, modification and shutdown work on storage tanks and plant equipment.

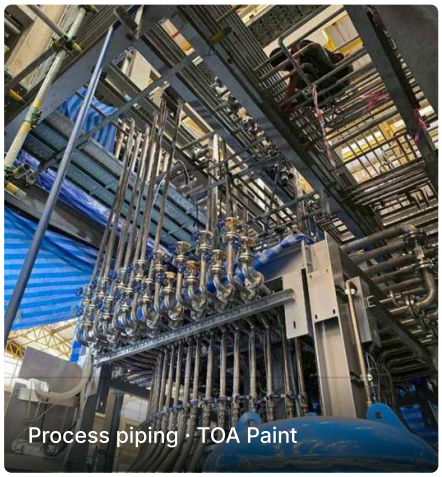
ENGINEERING & FABRICATION PRODUCTS

What we build

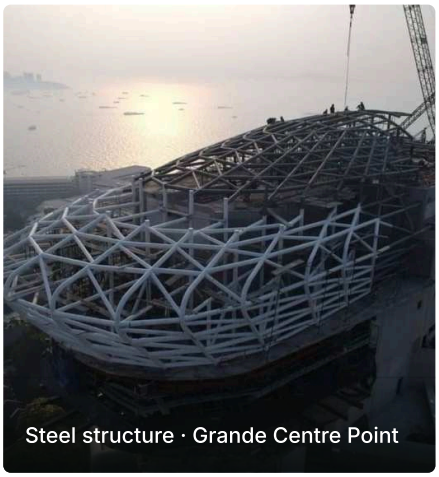
- Cone Roof Tank
- Dome Roof Tank
- Floating Roof Tank
- Double Wall Tank
- Spherical Tank
- Process Piping Systems
- Steel Structures
- Equipment Installation & Mechanical Works



Steel structure · INSEE Chonburi (ICHO)



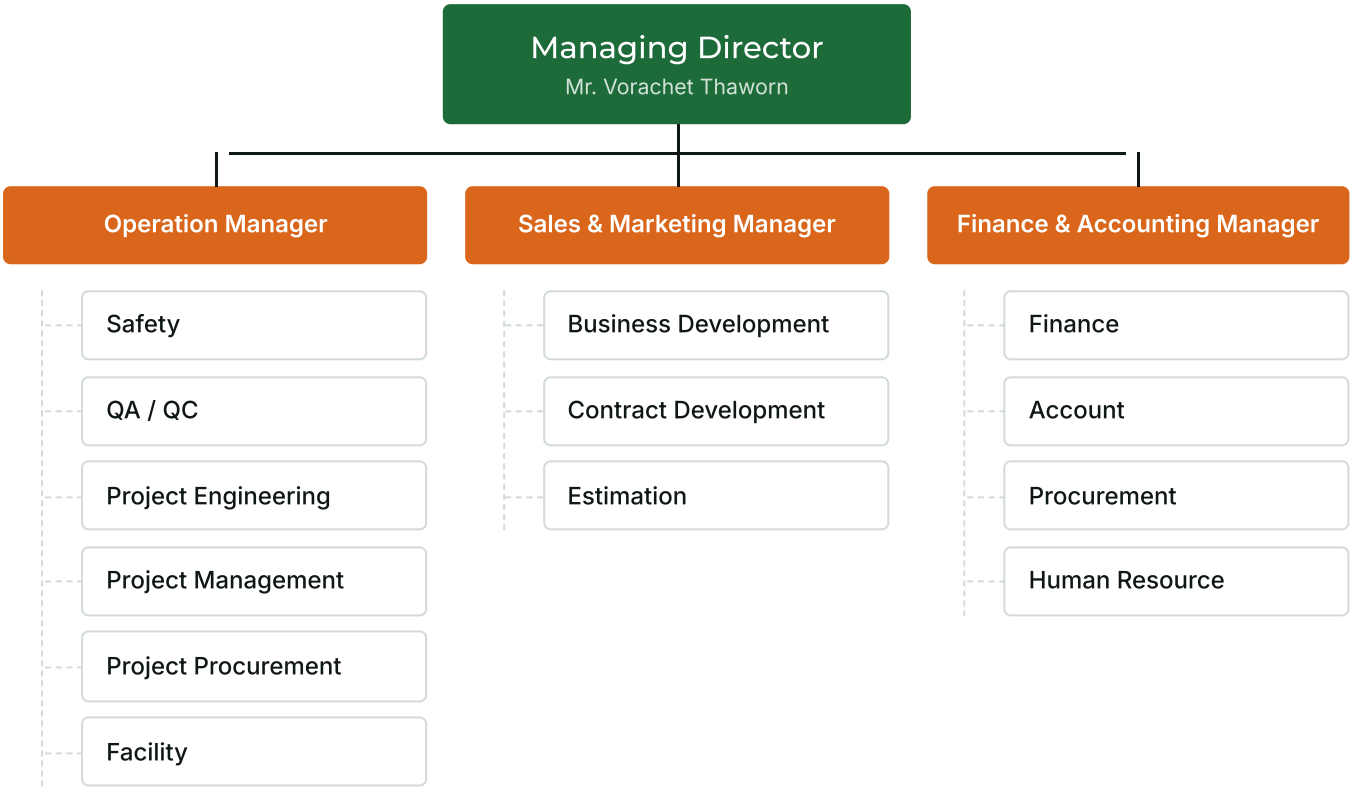
Process piping · TOA Paint



Steel structure · Grande Centre Point

SHEET 03

COMPANY ORGANIZATION



SHEET 04

CLIENTS & PROJECT OWNERS

PTT
HUAWEI
BJC Heavy Industries
Siam City Concrete (INSEE)
TOA Paint
Double A
Thai Public Port
Royal Thai Navy
Unithai Shipyard
Pan Orient Energy
E-Square Environment & Engineering
CBI
SK E&C
KTIS
Celestica
Mctric
STP&I
Global Inter
IEC Sakaeo 1

SHEET 05

PROJECT EXPERIENCE

NO. 1 = EARLIEST · LATEST AT TOP

NO.	PROJECT	CLIENT	LOCATION	DESCRIPTION	VOL. OF WORK
36	**Araya Central Wastewater Treatment Plant**	E-Square Environment & Engineering Co., Ltd. / Phoenix Engineering and Construction Co., Ltd.	ARAYA The Eastern Gateway, Bang Bo, Samut Prakan	Sludge holding tank fabrication, scraper & skimmer for sedimentation tank, carbon steel & HDPE process piping, and mechanical equipment installation	**Tank · Scraper · Piping · Pumps**
35	**Dehydration Storage Tanks**	Pan Orient Energy (Siam) Ltd. / Phoenix Engineering & Construction Co., Ltd.	Phoenix fabrication shop, Nikhom Phatthana, Rayong	Fabrication of dehydration storage tanks (API 620), Tank ID 3,650 x H 4,572 (300 bbl)	**3 tanks**
34	**Wastewater Treatment Plant (WWTP)**	Unithai Shipyard Engineering Co., Ltd. / Envirtech Water Technology Co., Ltd. (designer)	Unithai Shipyard, Laem Chabang, Chonburi	Fabrication & installation of modular steel WWTP tanks, filters and plant piping	**8 tanks + filters**
33	**TIDC DC 1,2 RYG**	Siam Chemitech Co., Ltd. / HUAWEI	Mab Kha, Rayong	Chilled Water Buffer Tank (TES), Tank ID 4,000 x H 7,300 (55 m^3)	**20 units**
32	**INSEE Chonburi (ICHO)**	Pathomwathanapanit Mining Co., Ltd. / Siam City Concrete Co., Ltd.	Ban Bueng, Chonburi	Civil works; structural steel fabrication & erection; tank installation; piping installation; mechanical & instrument equipment installation	**1,000 t steel + tanks & piping**
31	**Run Inline Inspection of 18-inch Undersea Pipeline with Water**	M2S Services Co., Ltd. / PTT Public Company Limited	Sriracha Oil Terminal, Chonburi	Temporary piping from tank T-64 to PIG launcher; installation and removal of PIG launcher & receiver; site restoration; support & safety	**18" × 2.5 km**
30	**BKK02 Proen Project**	Siam Chemitech Co., Ltd. / HUAWEI	Edgnex Data Centers by DAMAC, Srinagarindra 8, Bangkok	Fabrication: thermal tanks. Tank ID 1,800 x L 8,528 = 3 units (20 m^3); Tank ID 1,800 x L 7,028 = 4 units (15 m^3)	**7 units**
29	**The New Dosing & Tinting Machine EM2**	TOA Paint (Thailand) Co., Ltd.	Head office, Bang Sao Thong, Samut Prakan	Piping (SUS304) installation work	**Pipe 2,500 DB**
28	**Piping Work MIP Phase 1**	TOA Paint (Thailand) Co., Ltd.	Samrong Factory, Bangkok	Pipe installation work	**Pipe 3,000 DB**
27	**Dismantling & Reinstallation of the Thermite Testing Pilot Plant**	LS Engineering and Construction Co., Ltd.	Thammasat University, Rangsit Campus	Dismantling of the factory and site restoration	**Factory area 30 m x 15 m**
26	**FLOBS (Thailand) Co., Ltd.**	VT Engineering Co., Ltd.	Rayong, Thailand	Fabrication of storage tanks: Tank ID 3,820 x H 12,000 = 2 units (SS400); Tank ID 3,820 x H 6,000 = 1 unit (SUS304)	**3 tanks**
25	**New Factory & Office UPS**	Ultra Pipe Service Co., Ltd.	Rayong, Thailand	Factory 15 × 30 m & office 5 × 17 m	**1 unit**

SHEET 05

PROJECT EXPERIENCE

CONTINUED

NO.	PROJECT	CLIENT	LOCATION	DESCRIPTION	VOL. OF WORK
24	**Central Utility Plant – TES Tank**	Best Tech & Engineering Co., Ltd.	Bangna, Bangkok	Site erection work for TES tank ID 19.3 m x 36 m high	**1 tank (318 tons)**
23	**Storage Tanks 100,000 L (3 tanks)**	—	Nikhom Phatthana, Rayong	Design, fabrication and installation of three 100,000-litre storage tanks.	**3 tanks**
22	**Clean Room (Structure)**	Celestica (Thailand) Co., Ltd. / Skill Development Co., Ltd.	Laem Chabang, Chonburi	Design, fabrication and installation of clean room steel structure.	**1 room**
21	**Grande Centre Point Pattaya 2**	Narinwan Building Co., Ltd.	Pattaya, Chonburi	Fabrication & installation of roof steel structure	**150 tons**
20	**Cool Room (Structure)**	Milott Laboratories Co., Ltd. / Skill Development Co., Ltd.	Bangplee, Samut Prakan	Fabrication & installation of steel structure for cool room	**1 room**
19	**Nakhonsawan Bio Complex**	Mctric PCL / KTIS (Kaset Thai International Sugar Corp.)	Nakhon Sawan	Fabrication & installation of tank farm	**2 tanks (1,000 tons)**
18	**Stack Stainless**	Power plant, Kamphaeng Phet	Kamphaeng Phet	Fabrication of stainless stack	**1 set**
17	**GC Polyols**	SK Engineering & Construction / Sarcon (TH) Co., Ltd.	Rayong, Thailand	Fabrication of steel structure, checker plate (cutting / fit-up / welding)	**150 tons**
16	**Dome Roof Primer Paint**	CBI (Thailand) Co., Ltd.	Rayong, Thailand	Sweep blasting & primer for dome roof	**3,310 m²**
15	**Demolition & Installation Work for Tube Superheat @ IEC Sa Kaeo**	IEC Sakaeo 1 Co., Ltd.	Sa Kaeo, Thailand	Demolition & installation work for tube superheat (shutdown)	**Pipe 1,000 DB**
14	**CUP4 Phase 1**	HRI Entech Co., Ltd.	Rayong, Thailand	Painting work for stack (blast / primer / coating)	**700 m²**
13	**Fire Water Tank & Building Steel Structure**	Wongthip Engineering Co., Ltd.	Bangkok, Thailand	1) Tank fabrication and erection work and painting work; 2) Building steel structure	**1 tank (50 tons)**

SHEET 05

PROJECT EXPERIENCE

CONTINUED

NO.	PROJECT	CLIENT	LOCATION	DESCRIPTION	VOL. OF WORK
12	**Jet Fuel Pipeline under the Apron, Apron "D" to Apron C**	Naval Supply Department	U-Tapao Rayong-Pattaya International Airport	Piping fabrication and erection work	**10,000 DB**
11	**Water Supply Systems within the Plant**	AJ Palm Oil Co., Ltd.	Thung Tako, Chumphon, Thailand	Water supply systems and wall within the plant	**1 unit**
10	**Crude Palm Oil Tank, Phase II**	Global Inter Co., Ltd.	Don Sak, Surat Thani	1) Tank fabrication and erection work; 2) Piping fabrication and erection work	**6 tanks · piping TBA**
09	**Jet Fuel Pipeline under the Apron, Apron D**	Engineering Department of the Navy / Success Engineering & Construction	U-Tapao Rayong-Pattaya International Airport	Piping fabrication and erection work	**1,200 DB**
08	**Crude Palm Oil Tank, Phase I**	Global Inter Co., Ltd.	Don Sak, Surat Thani	1) 1 fire water tank and 8 crude palm oil tanks; 2) Piping fabrication and erection work	**9 tanks · 15,000 DB**
07	**Installation and Upgrade Boiler NPP5**	WJC Enterprise Co., Ltd. / Double A (1991) PCL	Prachinburi	Upgrade and modification boiler NPP5	**10 million Baht**
06	**Roy Hill Iron Ore Project Package 3**	BJC Heavy Industries PCL	Rayong	Provision of fabrication and yard assembly services	**Fab. 120 t · Ass. 180 t**
05	**Cape Lambert SMP Package 3**	BJC Heavy Industries PCL	Rayong	Fabrication and assembly of steel structure	**40 tons**
04	**Wheatstone Tank Project**	BJC Heavy Industries PCL	Rayong, Sattahip	LNG & CDS tank fabrication work, piping and accessory work	**2,400 tons**
03	**Ichthys Onshore LNG Facilities Project**	R.M.C. / STP&I	Rayong	Fabrication steel structure work	**100 tons**
02	**The Construction of Spherical Tank at Khao Bo Ya LPG Terminal**	Thai Woo Ree / PTT PCL	Khao Bo Ya, Sriracha	Fabrication & field construction, 19.7 m diameter sphere	**2 tanks**
01	**Improvement of Oil Storage Tanks Project**	S. Sirisaeng / Thai Public Port Co., Ltd.	Ko Si Chang, Sriracha	Maintenance and improvement of the fuel oil tank	**2.3 million Baht**

36 Araya Central Wastewater Treatment Plant

E-Square Environment & Engineering Co., Ltd. / Phoenix Engineering and Construction Co., Ltd. · ARAYA The Eastern Gateway, Bang Bo, Samut Prakan

Tank · Scraper · Piping · Pumps

Multi-discipline package for the Araya Central Wastewater Treatment Plant project: sludge holding tank fabrication, scraper and skimmer for the sedimentation tank, carbon steel and HDPE process piping, and mechanical equipment installation.

A Sludge holding tank

Shop fabrication of a cone-bottom sludge holding tank on a tubular leg support, with nozzles, spiral stair and platform. Blasting and painting completed: dark blue exterior with light grey interior coating.


INSTALLED ON SITE

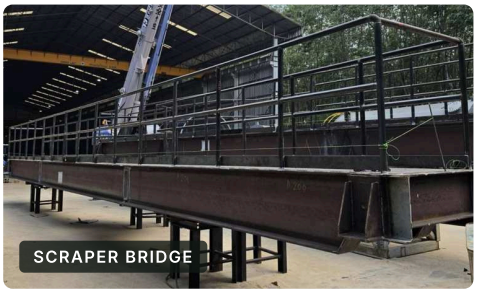

SHOP FABRICATION


FINAL COATING

B Scraper & skimmer for sedimentation tank

Fabrication of the scraper bridge, walkway with handrails, truss arms and centre feed well for the sedimentation tank scraper and scum skimmer.


PAINTED BRIDGE & WALKWAY


SCRAPER BRIDGE


TRUSS ARMS

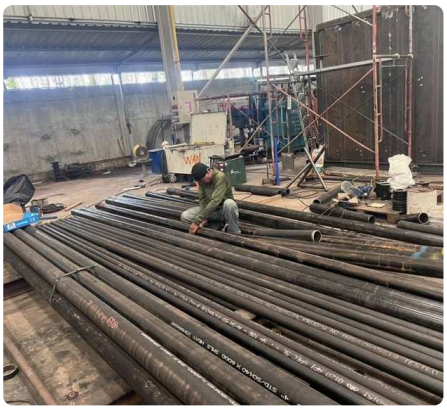
36 Araya Central Wastewater Treatment Plant

CONTINUED

C Carbon steel process piping

Shop fabrication of carbon steel pipe spools (API 5L / ASTM A106) with branch connections, fit-up and welding.





D HDPE piping

HDPE pipe butt-fusion welding and installation, including flanged connections and buried pipe runs in trenches.

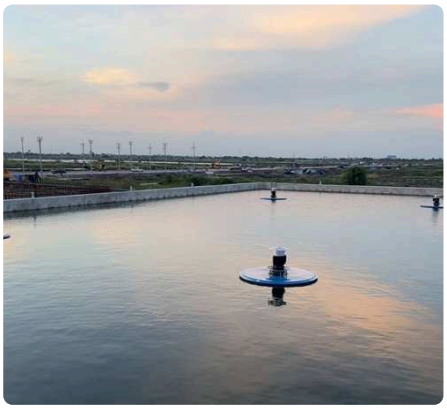




E Mechanical equipment

Installation and pipe connection of submersible pumps on duck-foot bases in the wet well, self-priming pumps on concrete plinths, and floating surface aerators.





35 Dehydration Storage Tanks

3 tanks

Pan Orient Energy (Siam) Ltd. / Phoenix Engineering & Construction Co., Ltd. · Phoenix fabrication shop, Nikhom Phatthana, Rayong

Fabrication of three API 620 dome-roof dehydration storage tanks for crude/water service: Ø3,650 × H4,572 mm, 300 bbl, flat bottom on skid, SS400 shell with fire-tube heater, manholes, nozzles, top platform and vertical ladder. Design 10 psig / 230 °F.





34 Wastewater Treatment Plant (WWTP)

8 tanks + filters

Unithai Shipyard Engineering Co., Ltd. / Envirtech Water Technology Co., Ltd. (designer) · Unithai Shipyard, Laem Chabang, Chonburi

Shop fabrication, painting, delivery and installation of a modular steel wastewater treatment plant: hydroblasting tank and oily waste tank (4.0 × 8.0 × 3.5 m each), chemical reactor tank, sedimentation tank, clear water tank, FMR tank, bio sedimentation tank, effluent & sludge storage tank, sand filter & activated carbon tank, and plant piping.













33 TIDC DC 1,2 RYG

20 units

Siam Chemitech Co., Ltd. / HUAWEI · Mab Kha, Rayong

Material procurement and fabrication of 20 chilled water buffer tanks (thermal energy storage) for a data center, built as ASME Sec. VIII Div. 1 pressure vessels. Tank ID 4,000 × H 7,300 mm, working capacity 64.5 m³ (55 m³ usable). Design 10 bar(g) / 50 °C, hydrotest 15 bar(g), full radiography. SS400 shell, heads and bottom, A105 flanges, 100 mm insulation and jacket, with platform, ladder and handrail.













32 INSEE Chonburi (ICHO)

Pathomwathanapanit Mining Co., Ltd. / Siam City Concrete Co., Ltd. · Ban Bueng, Chonburi

1,000 t steel + tanks & piping

Multi-discipline construction package for a new aggregate and process plant: civil works, structural steel, site erection of process tanks, process piping, and mechanical & instrument equipment installation.

A Civil & structural steel

Civil works, structural steel fabrication and erection for conveyor and plant structures (approx. 1,000 tons).





B Tank installation

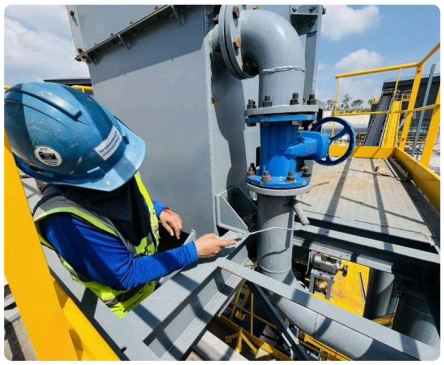
Site erection of an elevated cone-bottom thickener tank on a braced steel support structure, with spiral stair, top platform and handrails, plus open-top process water tanks.





C Piping installation

Process water and slurry piping, pipe racks and supports, valves, and pump connections, plus mechanical & instrument equipment installation.


31 Run Inline Inspection of 18-inch Undersea Pipeline with Water

18" × 2.5 km

M2S Services Co., Ltd. / PTT Public Company Limited · Sriracha Oil Terminal, Chonburi

Pipeline-side works for the inline inspection (ILI) of PTT's 18-inch undersea pipeline (approx. 2.5 km), run with water: supply of materials and equipment and installation of temporary piping from tank T-64 to the PIG launcher; assembly and installation of the PIG launcher and PIG receiver for the cleaning, geometry and ILI PIG runs; then removal of the launcher, receiver and temporary piping and restoration of the terminal area, with support and safety services throughout.













30 BKK02 Proen Project

7 units

Siam Chemitech Co., Ltd. / HUAWEI · Edgnex Data Centers by DAMAC, Srinagarindra 8, Bangkok

Fabrication: thermal tanks. Tank ID 1,800 x L 8,528 = 3 units (20 m³); Tank ID 1,800 x L 7,028 = 4 units (15 m³)













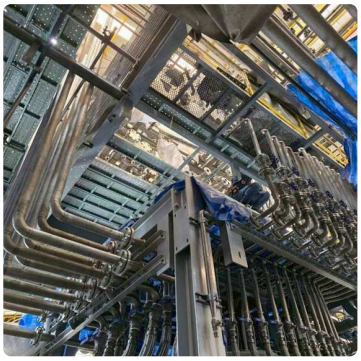
29 The New Dosing & Tinting Machine EM2

Pipe 2,500 DB

TOA Paint (Thailand) Co., Ltd. · Head office, Bang Sao Thong, Samut Prakan

Piping (SUS304) installation work



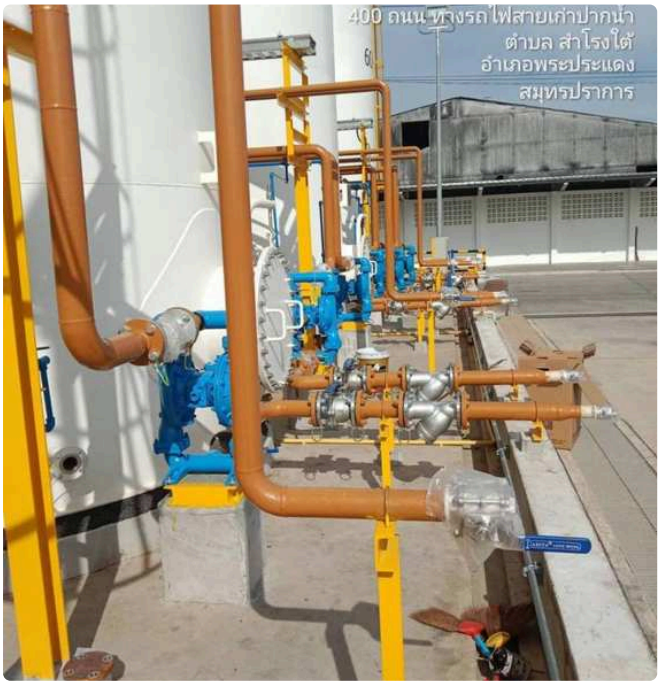



28 Piping Work MIP Phase 1

Pipe 3,000 DB

TOA Paint (Thailand) Co., Ltd. · Samrong Factory, Bangkok

Pipe installation work








27 Dismantling & Reinstallation of the Thermite Testing Pilot Plant

Factory area 30 m x 15 m

LS Engineering and Construction Co., Ltd. · Thammasat University, Rangsit Campus

Dismantling of the factory and site restoration






26 FLOBS (Thailand) Co., Ltd.

3 tanks

VT Engineering Co., Ltd. · Rayong, Thailand

Fabrication of storage tanks: Tank ID 3,820 x H 12,000 = 2 units (SS400); Tank ID 3,820 x H 6,000 = 1 unit (SUS304)





25 New Factory & Office UPS

1 unit

Ultra Pipe Service Co., Ltd. · Rayong, Thailand

Factory 15 × 30 m & office 5 × 17 m







24 Central Utility Plant – TES Tank

1 tank (318 tons)

Best Tech & Engineering Co., Ltd. · Bangna, Bangkok

Site erection work for TES tank ID 19.3 m x 36 m high





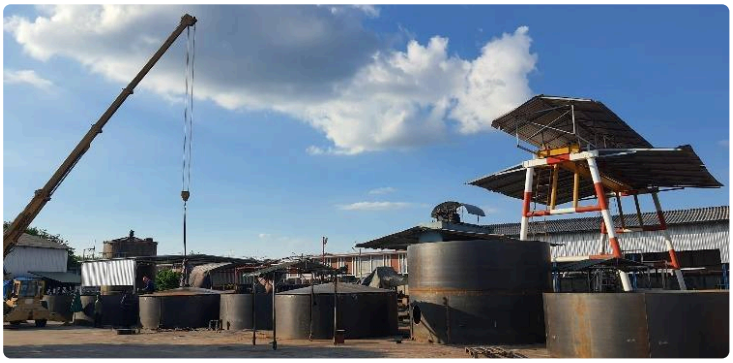
23 Storage Tanks 100,000 L (3 tanks)

3 tanks

— · Nikhom Phatthana, Rayong

Design, fabrication and installation of three 100,000-litre storage tanks.



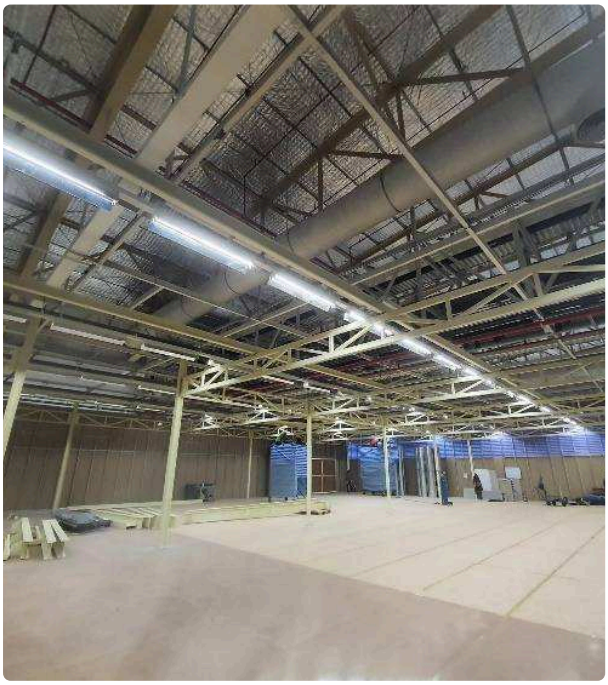
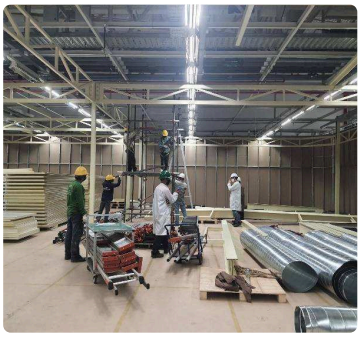
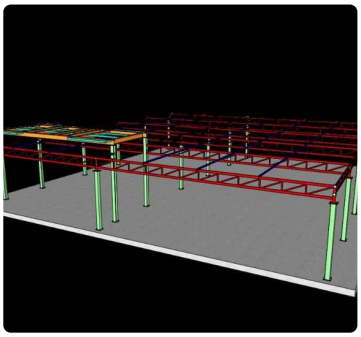
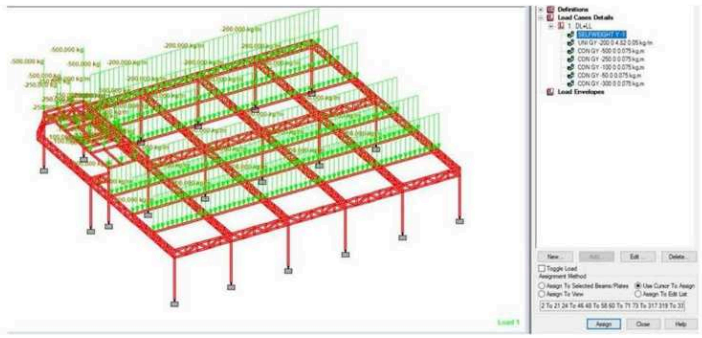



22 Clean Room (Structure)

1 room

Celestica (Thailand) Co., Ltd. / Skill Development Co., Ltd. · Laem Chabang, Chonburi

Design, fabrication and installation of clean room steel structure.

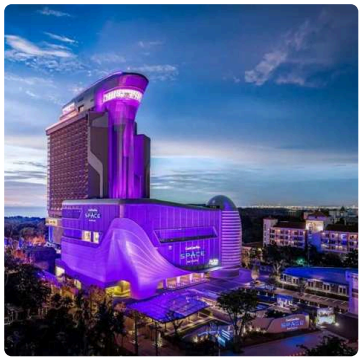





21 Grande Centre Point Pattaya 2

150 tons

Narinwan Building Co., Ltd. · Pattaya, Chonburi

Fabrication & installation of roof steel structure

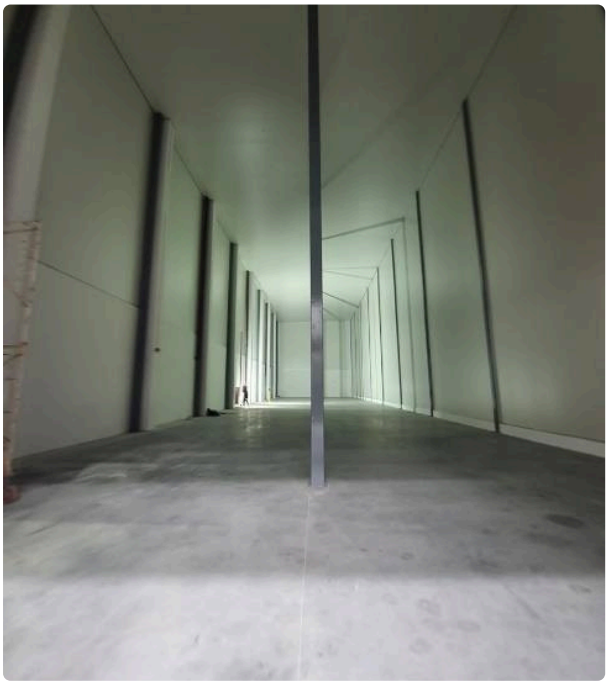
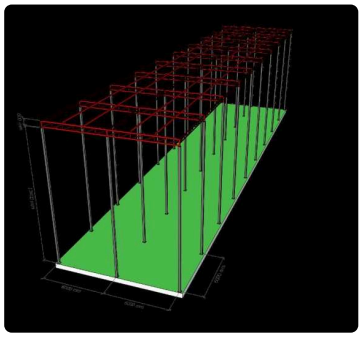


20 Cool Room (Structure)

1 room

Milott Laboratories Co., Ltd. / Skill Development Co., Ltd. · Bangplee, Samut Prakan

Fabrication & installation of steel structure for cool room



19 Nakhonsawan Bio Complex

2 tanks (1,000 tons)

Mctric PCL / KTIS (Kaset Thai International Sugar Corp.) · Nakhon Sawan

Fabrication & installation of tank farm





18 Stack Stainless

1 set

Power plant, Kamphaeng Phet · Kamphaeng Phet

Fabrication of stainless stack











17 GC Polyols

150 tons

SK Engineering & Construction / Sarcon (TH) Co., Ltd. · Rayong, Thailand

Fabrication of steel structure, checker plate (cutting / fit-up / welding)






16 Dome Roof Primer Paint

3,310 m²

CBI (Thailand) Co., Ltd. · Rayong, Thailand

Sweep blasting & primer for dome roof






15 Demolition & Installation Work for Tube Superheat @ IEC Sa Kaeo

Pipe 1,000 DB

IEC Sakaeo 1 Co., Ltd. · Sa Kaeo, Thailand

Demolition & installation work for tube superheat (shutdown)






14 CUP4 Phase 1

700 m²

HRI Entech Co., Ltd. · Rayong, Thailand

Painting work for stack (blast / primer / coating)






13 Fire Water Tank & Building Steel Structure

1 tank (50 tons)

Wongthip Engineering Co., Ltd. · Bangkok, Thailand

1) Tank fabrication and erection work and painting work; 2) Building steel structure






12 Jet Fuel Pipeline under the Apron, Apron “D” to Apron C

10,000 DB

Naval Supply Department · U-Tapao Rayong-Pattaya International Airport

Piping fabrication and erection work






11 Water Supply Systems within the Plant

1 unit

AJ Palm Oil Co., Ltd. · Thung Tako, Chumphon, Thailand

Water supply systems and wall within the plant





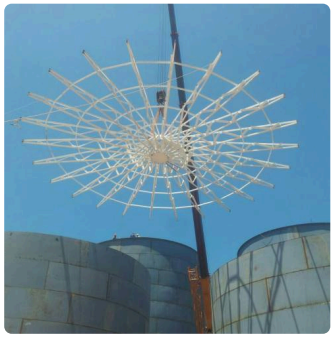

10 Crude Palm Oil Tank, Phase II

6 tanks · piping TBA

Global Inter Co., Ltd. · Don Sak, Surat Thani

1) Tank fabrication and erection work; 2) Piping fabrication and erection work




09 Jet Fuel Pipeline under the Apron, Apron D

1,200 DB

Engineering Department of the Navy / Success Engineering & Construction · U-Tapao Rayong-Pattaya International Airport

Piping fabrication and erection work











08 Crude Palm Oil Tank, Phase I

9 tanks · 15,000 DB

Global Inter Co., Ltd. · Don Sak, Surat Thani

Tank farm for a crude palm oil mill: 8 crude palm oil tanks (Ø15 m × H 18.5 m, 3,000 m³ each) and 1 fire water tank, with process piping, pipe rack, structural steel, and pump & equipment installation.

A Tank fabrication & erection

8 crude palm oil storage tanks, Ø15 m × H 18.5 m (3,000 m³ each), plus 1 fire water tank.






B Piping fabrication & erection

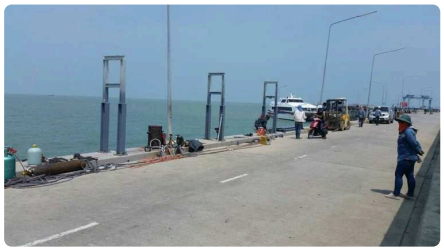
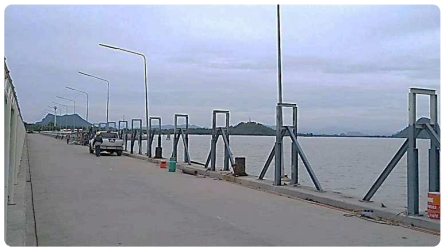
Process piping fabrication and erection, 15,000 diameter-inches.





C Structural steel & pipe rack

Fabrication and erection of structural steel and pipe racks.

D Pump & equipment installation

Installation of pumps and associated mechanical equipment.




07 Installation and Upgrade Boiler NPP5

10 million Baht

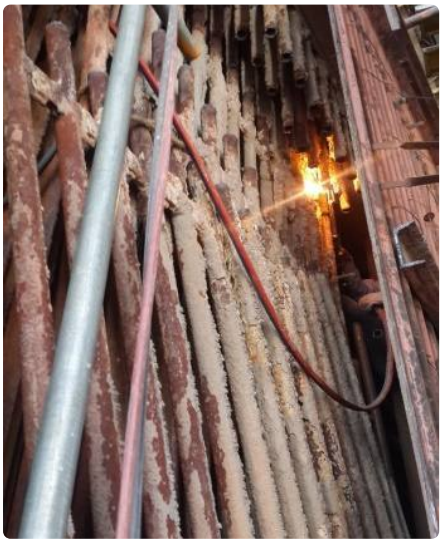
WJC Enterprise Co., Ltd. / Double A (1991) PCL · Prachinburi

Upgrade and modification boiler NPP5













06 Roy Hill Iron Ore Project Package 3

BJC Heavy Industries PCL · Rayong

Provision of fabrication and yard assembly services

Fab. 120 t · Ass. 180 t





05 Cape Lambert SMP Package 3

BJC Heavy Industries PCL · Rayong

Fabrication and assembly of steel structure

40 tons









04 Wheatstone Tank Project

2,400 tons

BJC Heavy Industries PCL · Rayong, Sattahip

LNG & CDS tank fabrication work, piping and accessory work











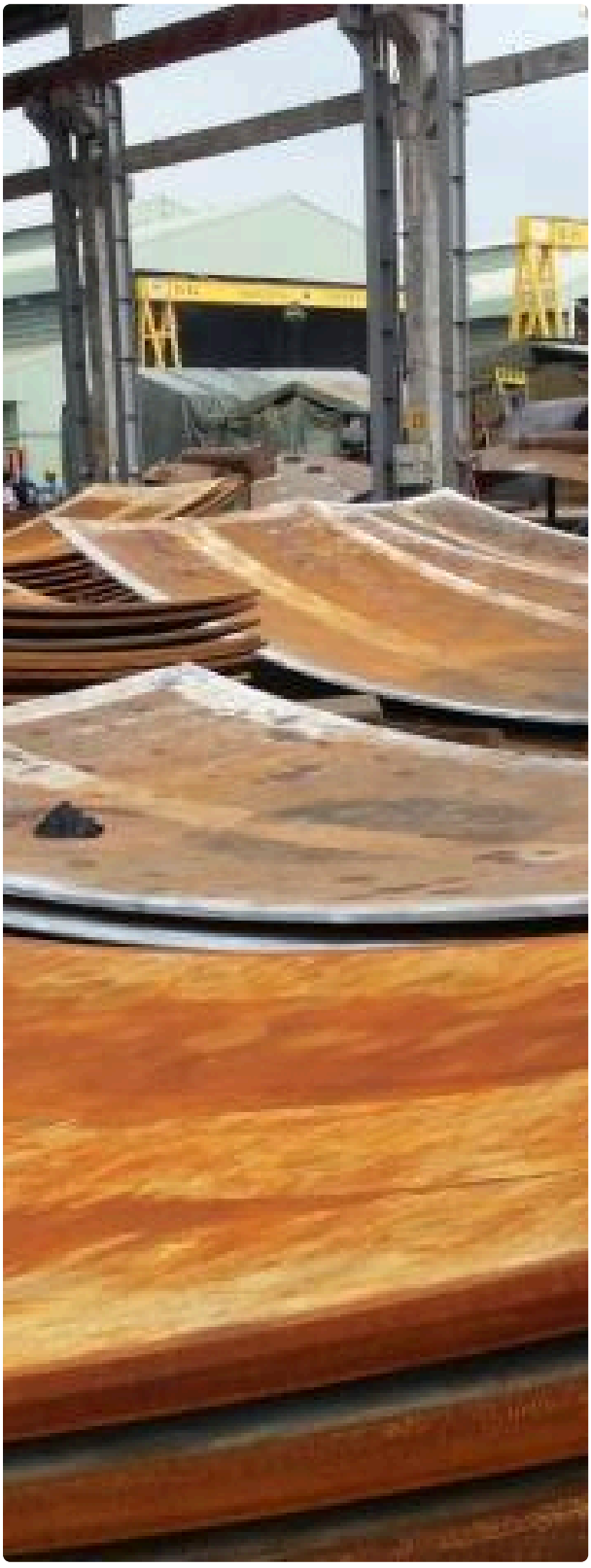


02 The Construction of Spherical Tank at Khao Bo Ya LPG Terminal

2 tanks

Thai Woo Ree / PTT PCL · Khao Bo Ya, Sriracha

Fabrication & field construction, 19.7 m diameter sphere









01 Improvement of Oil Storage Tanks Project

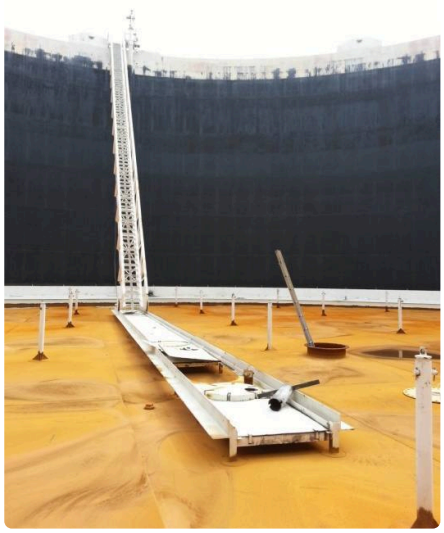
2.3 million Baht

S. Sirisaeng / Thai Public Port Co., Ltd. · Ko Si Chang, Sriracha

Maintenance and improvement of the fuel oil tank













CONTACT FOR INQUIRY

LET'S TALK ABOUT YOUR NEXT PROJECT

Storage tanks, process piping, steel structures and maintenance work. Send us your drawings or scope and we will prepare a quotation.

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