



Unimit Engineering PCL.

Company Presentation



www.unimit.com

ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018, U, U2, S and R STAMP



01 *Company information*

02 *Business segment*

03 *Organization, Manpower and Capacity*

04 *Equipment and Certificates*

05 *Location*

06 *Client & end user list*



01 Company Information



Unimit Engineering Public Company Limited

- ▶ Established: April 21, 1982
- ▶ Capital: THB 143 Million Registered
- ▶ Stock Ticker: "UEC" (MAI* Market) since Nov 2005

Headquarter

- ▶ Bangkok Office: Phrapradaeng, Samutprakran

Factory

- ▶ Factory I & II: Banbung, Chonburi
- ▶ Factory III: Nikom Pattana, Rayong
- ▶ Web site: www.unimit.com



Timeline



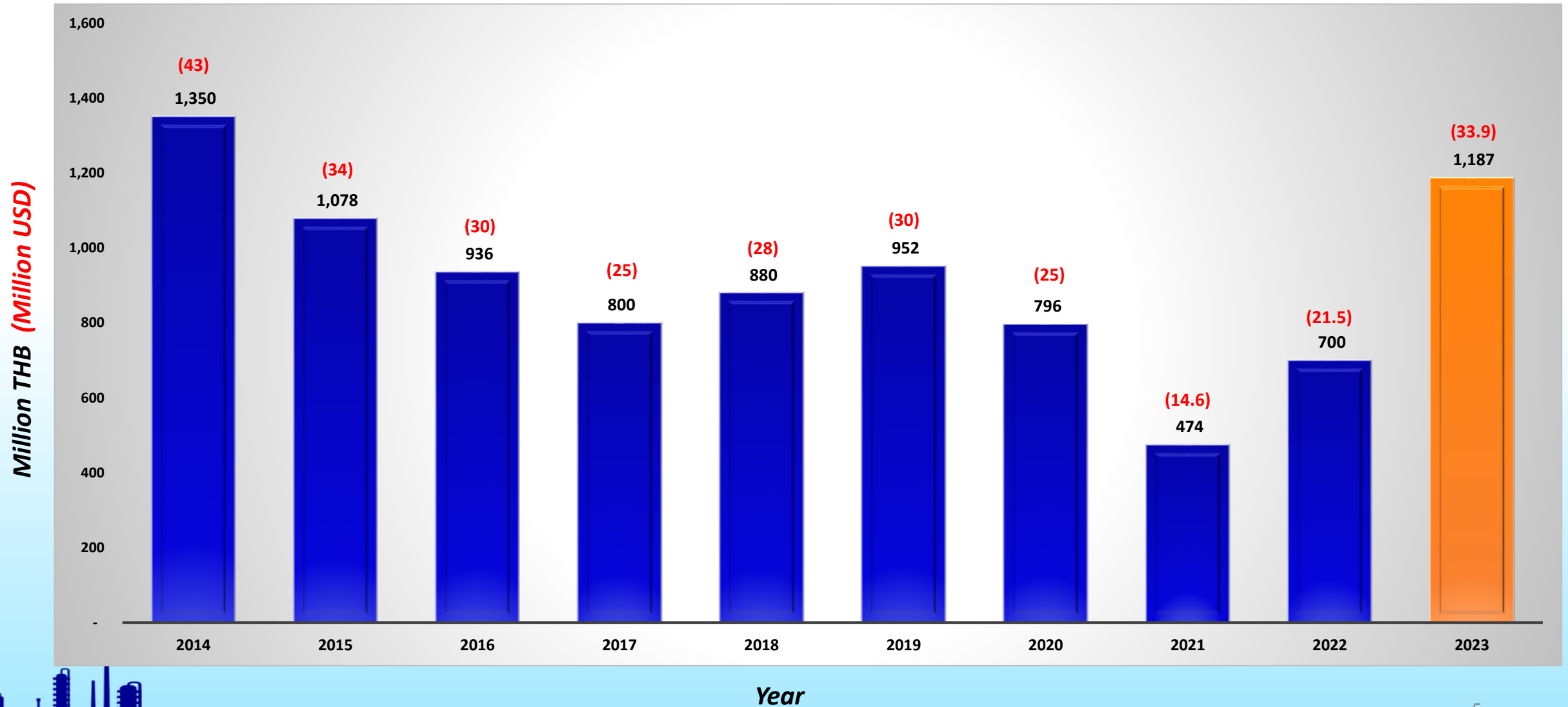
Unimit Engineering Public Company Limited



Revenues



Unimit Engineering Public Company Limited



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02 Business segment



Unimit Engineering Public Company Limited

1. Pressure Vessel	2. Machinery Parts	3. Storage Tanks	4. Piping/Structure Support	5. Equipment Installation / Repair & Modification
LPG Tank				
Cryogenic Tank				

Equipment Installation/Repair & Modification 27%

Pressure Vessel 52%

2022 Annual sales
700 Million THB.
(21.5 MUSD.)

Piping /
Structure Support 3%

Storage Tanks 8%

Machinery Parts 2%

Cryogenic Tanks 1%

LPG Tanks 7%

Local : 95 %
Export: 5 %



02 Business Segment



Unimit Engineering Public Company Limited

Pressure Vessel

Standard Products

- ▶ **LPG tanks**
- ▶ **Cryogenic tanks**

Custom Products

- ▶ **Column**
- ▶ **Drum / Reactor**
- ▶ **Heat Exchanger**
- ▶ **Steam drums**
- ▶ **DEAERATOR**
- ▶ **Air receiver tanks**



Machinery Parts

- ▶ Fan casing
- ▶ Wind tunnel
- ▶ Stack and Diverters
- ▶ Incinerator
- ▶ Attrition & Homogenization Drum



Storage Tanks

- ▶ Oil tank
- ▶ Water tank
- ▶ SILO



Piping/Structure Support

- ▶ Pipe Spools
- ▶ Pipe Racks
- ▶ Pipe Support
- ▶ Structure Support
- ▶ Platform & Ladder



Equipment installation

- ▶ Tank installation
- ▶ Equipment installations
- ▶ Repair and modification work



Pressure Vessel (LPG)



Unimit Engineering Public Company Limited

23.7 ton Self support



4.3 to 10 ton



Above ground installation



25.4 ton Wagon Tank

16.4 ton Self support



93 ton Bullet tank



Pressure Vessel (Cryogenic)



Unimit Engineering Public Company Limited



Vertical tank 3,000 liters



Horizontal Tank

LIN - 310,000 Litres



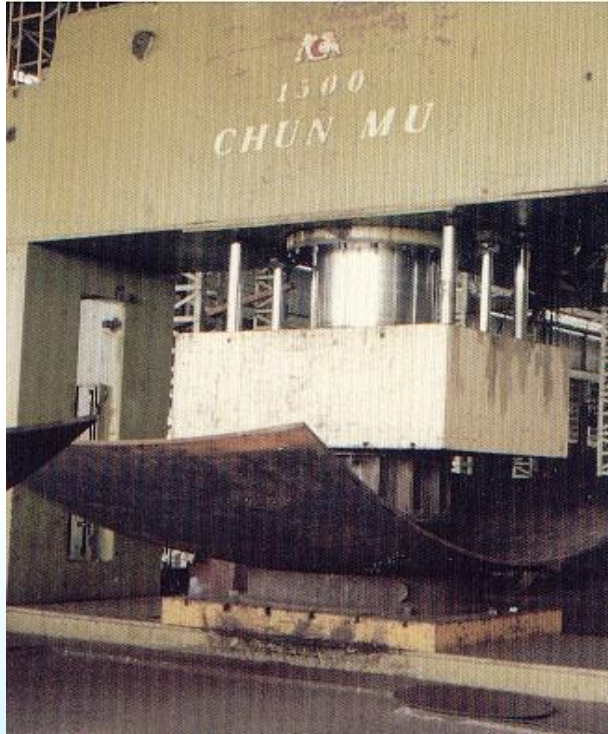
Vertical Tank

LIN / LOX - 350,000 Litres

Pressure Vessel (Spherical Tank)



Unimit Engineering Public Company Limited



Pressure Vessel (Spherical Tank)



Unimit Engineering Public Company Limited



Scope of work and supply is design :

- Material procurement
- Shop fabrication
- Site erection, Testing and commissioning



Site location :

- Khon Kaen Terminal
- Surat thani Terminal
- Songkhla [4,000 m³]

Pressure Vessel (Column)



Unimit Engineering Public Company Limited



ID 5,300 mm.,
46,700 TL-TL mm., 311.55 ton.

End user / EPC: Thai Paraxylene Company Limited / Hyundai Engineering Company Limited

Project name: TPX Linear Alkyl Benzene [Year 2013-2014]

Pressure Vessel (Column)



Unimit Engineering Public Company Limited



**ID 3900/5700/2500 mm.,
30,000 TL-TL mm., 122.55 ton**

End user / EPC: Thai Oil Public Company / Foster wheeler

Project name: Emission Improvement and PSA-3 (Year 2011-2012)

Pressure Vessel (Column)



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ID 5,000 mm., 60,100 TL-TL mm., 252.0 ton



End user / EPC: PTT Global Chemical Public Company Limited / Chiyoda (Thailand) Ltd. and Toyo-Thai Corporation PLC.

Project name: Byproduct Valued Added (BV Project) [Year 2011]

Pressure Vessel (Column)



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ID 4,400 mm., 90,740 TL-TL mm.



End user: Thai OLEFINS Public Company Limited

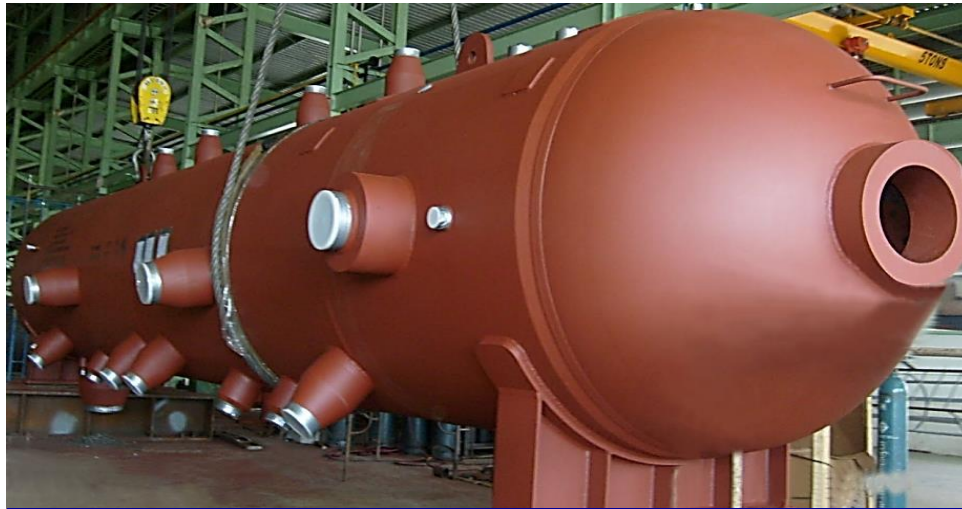
Project Name : New Parallel C3 Train

Pressure Vessel (Power Plant)



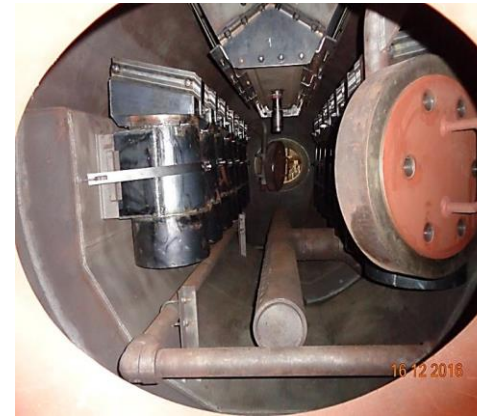
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HP Drum



Maximum thickness (experience): 160 mm.
2,500 ID 11,000 mm TL-TL, 146.53 ton.

LP Drum



Internal Parts Installation



Blow Down Tank

Pressure Vessel (Deaerator)



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Pressure Vessel (Heat Exchanger)



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Pressure Vessel (Offshore Product)



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Test separator

OD 3'-6" TL-TL11' Material SA516 Gr.70N

Thickness (Cone/Shell/Head) : 1-31/32" / 1-25/32" / 1-11/16"

(47.9 mm. / 45 mm. / 42.86 mm.)



Internal Parts Installation

Pressure Vessel (Reactor)



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02 Business Segment



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Pressure Vessel

Standard Products

- ▶ LPG tanks
- ▶ Cryogenic tanks

Custom Products

- ▶ Column
- ▶ Drum / Reactor
- ▶ Heat Exchanger
- ▶ Steam drums
- ▶ DEAERATOR
- ▶ Air receiver tanks



Machinery Parts

- ▶ **Furnace**
- ▶ **Wind tunnel**
- ▶ **Stack and Diverters**
- ▶ **Incinerator**
- ▶ **Attrition & Homogenization Drum**



Storage Tanks

- ▶ Oil tank
- ▶ Water tank
- ▶ SILO



Piping/Structure Support

- ▶ Pipe Spools
- ▶ Pipe Racks
- ▶ Pipe Support
- ▶ Structure Support
- ▶ Platform & Ladder



Equipment installation

- ▶ Tank installation
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Machinery Parts



Unimit Engineering Public Company Limited



Furnace

PROJECT: I-PRO CAPL MANUFACTURING
OWNER/EPC: TATA India/ SANKYU 1,023.80 tons Year 2011



PROJECT: IRPC Fuel Gas Stack, Thailand
Purchaser Zeeco, Inc. year 2013

Machinery Parts



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Diverters

Project: DEIR ALI II 701 MW., Damascus, Syria



Project : MEGALOPOLIS, Unit V 811 MW., Greece

Machinery Parts



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Boiler Fan Casing

Machinery Parts



Unimit Engineering Public Company Limited



Boiler Fan Casing, Rotors & Static Parts



Buyer : Prony Australia



Fan Casing, Buyer: Alcan Grove Australia

Machinery Parts



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Wind Tunnel



PROJECT: BMW AVZ

WIND TUNNEL FANS for HOWDEN GERMANY: Year 2006

Drum Attrition & Homogenization



PROJECT : BMA Composting Plant, ONNUCH Bangkok Thailand
Year 2016



Machinery Parts



Unimit Engineering Public Company Limited



Incinerator

PROJECT: VCM 1 Equipment Replacement

Owner: Thai Plastic and Chemical PLC.; year 2014



PROJECT: TTM New Incinerator Project , Thailand

Purchaser Callidus / TRC., year 2017



02 Business Segment



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Machinery Parts

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Storage Tanks

- ▶ **Oil tank**
- ▶ **Water tank**
- ▶ **SILO**



Piping/Structure Support

- ▶ Pipe Spools
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Equipment installation

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Storage Tanks



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Project : EO/EG Expansion 1 , Rayong, Thailand
Customer : SAMSUNG / **Owner :** TOCGC , Year 2008

Storage Tanks



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Project : HPPO2-HP Project, Rayong, Thailand

Owner : Solvey Peroxythai Limitedear , Year 2011

Storage Tanks



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Project : Vessel and Storage Tanks (86 Tanks), Chainat, Thailand
Owner : Nobel NC, Year 2007

Storage Tanks



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Project : Rungtawan II , Rayong , Thailand

Customer : Hitachi Plant Technology (Thailand) Owner : JSR BST Elastomer Co.,Ltd , Year 2016

02 Business Segment



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Storage Tanks

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Piping/Structure Support

- ▶ **Pipe Spools**
- ▶ **Pipe Racks**
- ▶ **Pipe Support**
- ▶ **Structure Supports**
- ▶ **Platform & Ladder**



Equipment installation

- ▶ Tank installation
- ▶ Equipment installations
- ▶ Repair and modification work



Pipe Spools



Unimit Engineering Public Company Limited



Pipe spools

PROJECT: JRU –Malaysia
Customer : Vetco aibel



Project :Material Upgrade for Evaporator Unit, Rayong , Thailand
Owner : TOCGC / PTTGC., Year 2017

Pipe Spools



Unimit Engineering Public Company Limited



PROJECT: EGAT Bang Pakong CCPP (Units 1-2 Replacement) Project., Bang Pakong District, Chachoengsao Province, Thailand
Customer : B&V , **Owner :** EGAT , **Year** 2018

Platform & Ladder



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Piping/Structure Support

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Equipment installation

- ▶ **Tank installation**
- ▶ **Equipment installations**
- ▶ **Repair and modification work**



Equipment Installation



Unimit Engineering Public Company Limited



Project : Fabrication and Erection Work of 2 off Talc Silo and 1 off Steel Structural Rayong , Thailand

Owner : Golcha Chemintac Co.,Ltd., Year 2018



Equipment Installation

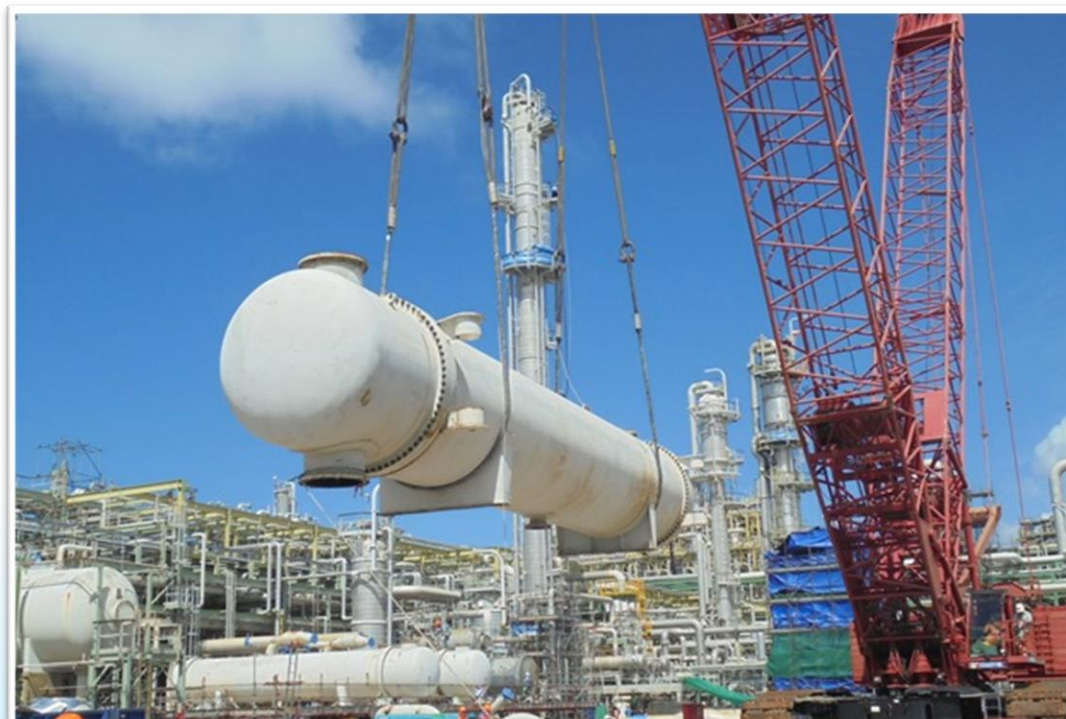


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End user: Thai OLEFINS Public Company Limited

Project Name : New Parallel C3 Train



Project : Replacement Heat Exchanger 5 units and Piping modify at PTTGC3 , Rayong , Thailand

Customer : PTTME

Owner : PTTGC., Year 2017



Equipment Installation



Unimit Engineering Public Company Limited



Site Assembly and welding in Horizontal position

ID 4,880 mm. X TL to TL. 38,350 Weight : 160 Tons

Material (Top/Middle/Bottom) : SA516Gr.60+Monel 400 / SA516Gr.60 / SA516Gr.60+SS316L

Project : Bangchak Recondition P#3 Project [Year 2014]

Purchaser : Bangchak Corporation Public Company Limited

Equipment Installation



Unimit Engineering Public Company Limited



Project : Replacement of Combined Feed Effluent Heat Project (Packinox), Rayong

Owner : PTTGC., Year 2016

Equipment Installation



Unimit Engineering Public Company Limited



Project : Material Upgrade for Evaporator Unit, Rayong , Thailand

Owner : TOCGC / PTTGC., Year 2017



Service and Maintenance



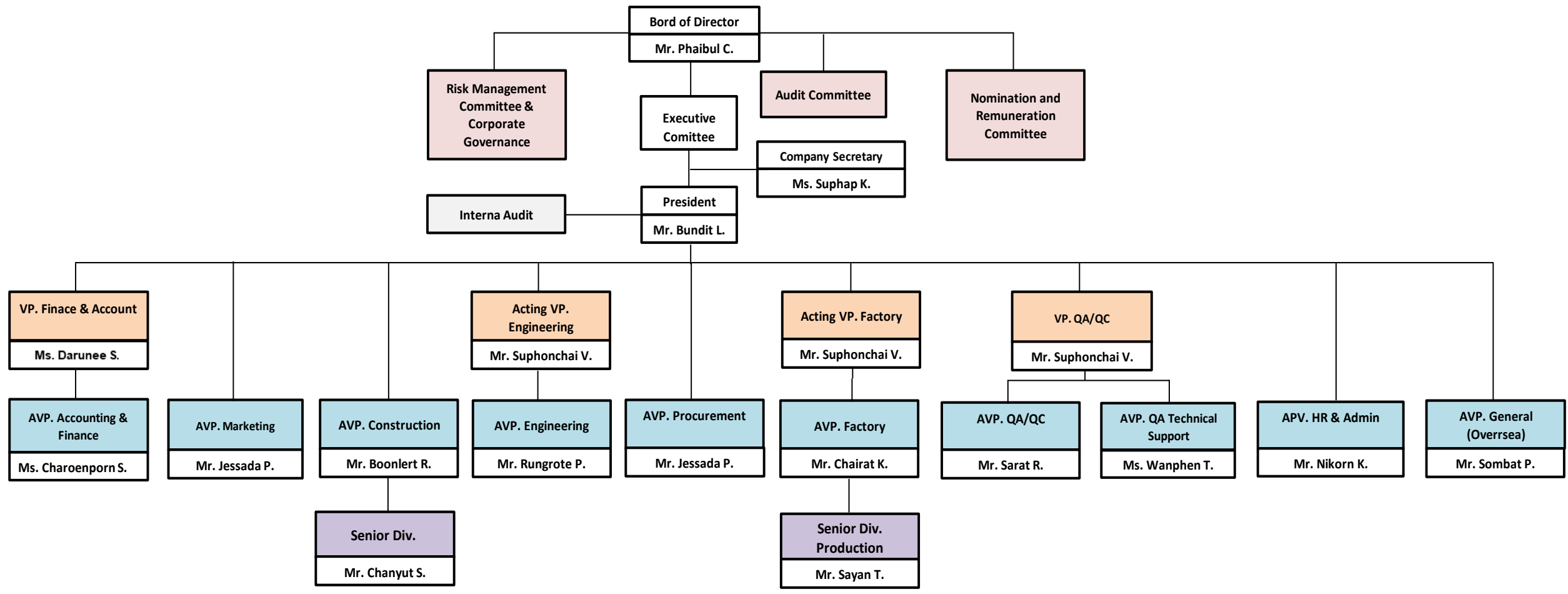
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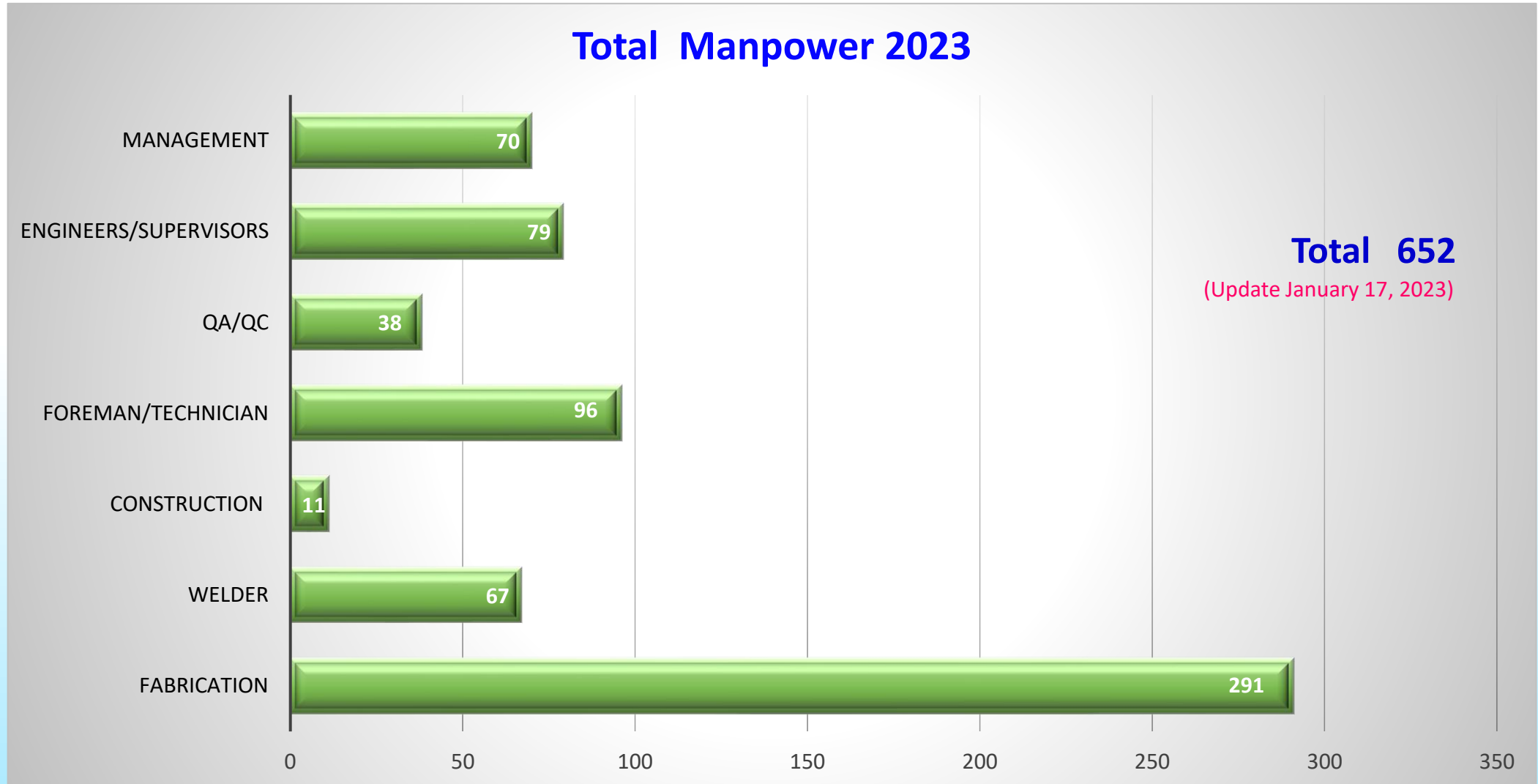


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03 Organization





- **Applicable Design Code**

- ASME Section VIII Div.1 / ASME Section VIII Div.2
- API 650 / API 653
- TEMA & PD 5500 / UHX Tube Layout

- **Software Design**

Program Name	Software Publisher	Purpose	Developer / Q'ty
PV-Elite	COADE Inc.	- Design Pressure Vessel: ASME Sec.VIII Div.1&2, - Heat Exchanger : ASME, TEMA & PD5500	PV-Elite / 1
Compress	CODE WARE Inc.	- Design Pressure Vessel: ASME Sec.VIII Div.1&2 - FEA Nozzle Heat Exchanger (TEMA, UHX, Tube Layout)	CoadeWare / 5
AutoCAD LT2008	Autodesk Inc.	Preparation of shop drawing	AutoDESK / 17

Material Experienced



Unimit Engineering Public Company Limited

Material (Plate)	Specifications	Thickness Range (mm)	Sourcing
Carbon Steel	SA516 Gr. 60 / 60N SA516 Gr. 70 / 70N SA516 Gr. 60 / 60N + HIC SA516 Gr. 70 / 70N + HIC SA283 Gr.C	8-125	Thailand : SPM , LPN Japan : NSCC, KOBE, JFE Korea : POSCO, Dongkuk, Hyundai Taiwan : CSC Europe : Industeel, Dillinger, Voestalpine
Stainless Steel (Austenitic & Duplex)	SA 240TP304, 304L SA 240TP316, 316L SA240 S31803 SA240 S32750 SA182 F51 , etc...	8-40	Japan : NSCC, KOBE, NYK Korea : DKC, SM Steel South East Asia : PT Tsingshan (Indonesia), Bahru (Malaysia), Yusco (Taiwan), Yeou Yih Steel (Taiwan) Europe : Outokumpu, Industeel, Aperam
Cr-Mo Alloys	SA387 Gr. 11 CL. II SA387 Gr. 22 CL. II	12-50	Japan : NSSMC, KOBE, JFE Korea : POSCO, Dongkuk Europe : Industeel, Dillinger, Voestalpine
Cladded Steel	SA516 Gr.60/70+SS316/L SA516 Gr.60/70 + SS304L SA516 Gr.60+A240TP405 SA204Gr.B + SS316Ti SA387-11 CL 2 + SS 304 etc..	20-80	Japan : JFE, JSW Europe : DMC, Industeel, Voestalpine
Incoloy	Incoloy 625 Incoloy 825 Monel 400	10-40	Japan : NYK, NSCC Europe : VDM, Bohler USA : Haynes, ATI, Special Metal

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Cutting Machine



Plasma Cutting: Maximum thickness 38 mm.
Gas Cutting: Maximum thickness 300 mm.



Work piece W 3 m. x L 15 m.

Equipment



Unimit Engineering Public Company Limited

Hydraulic pressing 900 tons and 1,500 tons



Pressing Capacity Max. Force 900 Tons
Column Span 6000 mm. (inside)

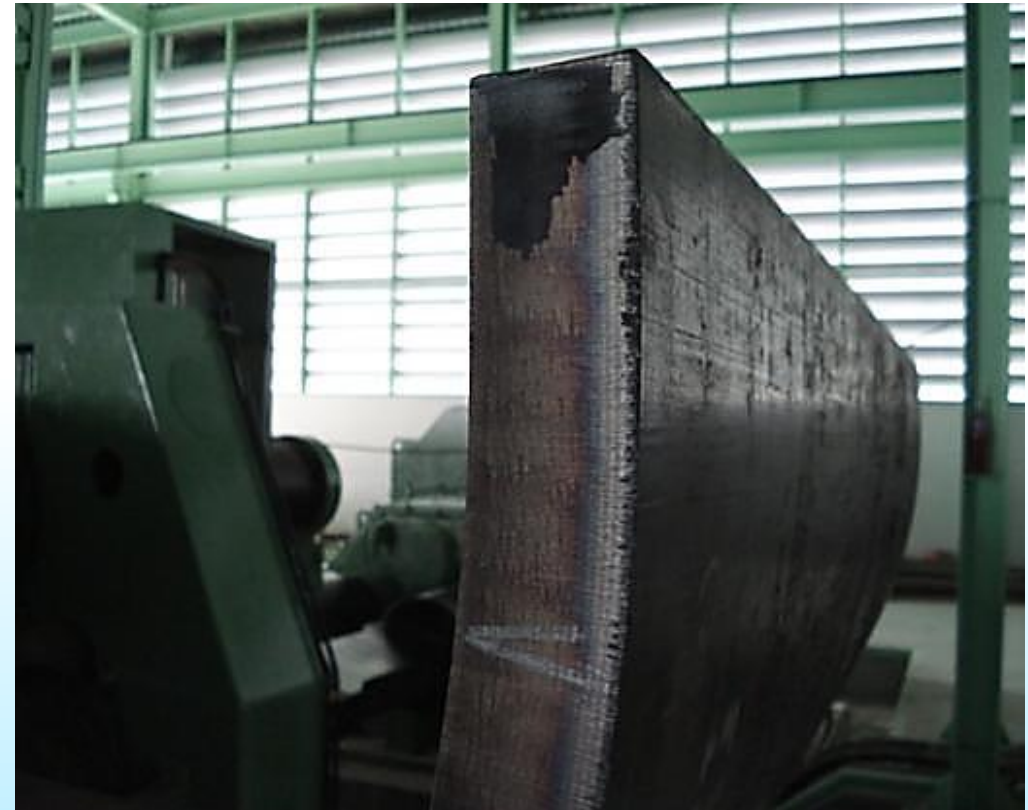


Max Load 1,500 Tons
Max 6 Meters Span

Plate bending



Plate bending:
Capacity: 125 mm. (5") x 3,675 mm Width.



Diameter of roller: 800 mm. (all 3 rollers)

Welding

- *Automatic Submerged*



Semi-Automatic Longitudinal Welding with Manipulator



Self-Alignment Power Rolling Machine

Head forming and spinning machine



Cold forming machine: Max diameter: 6 m.
Max thickness: 40 mm.



Cold forming machine: Max diameter: 3.8 m.
Max thickness: 22 mm.

CNC machine center



Double Column Vertical Boring Machine



**Specification: 1 M Wide x 3 M Long x 300 mm
Thickness capability**

Steel profile bending



NC Hydraulic Profile Bending Machine: Max FB 100 x 25t x 800r

Vacuum pump and High Pressure Test Pump



**High Pressure Test Pump - Output (max) 10,000 psi
Flow (max) 668 sq. inch**



**Vacuum pump w/ Booster E2M275 EH1200
Rotary pump speed: 275 m3/hr.
Booster pump speed: 1200m3/hr.**

Furnace for PWHT (Post Weld Heat Treatment)



Capacity: 5.3 m.(W) x 5.3 m.(H) x 18.0 m.(L) 100 Tons
Up to 1,200 C degree (LPG-fired)



Capacity: 4.5 m.(W) x 3.5 m.(H) x 6.5 m.(L) 50 – 60 Tons
Up to 1,200 C degree (LPG-fired)

Blasting shop



Abrasive material: Grit



Shop dimension: L 25 m. x W 13 m. x H 7 m.

Company Certificates



Unimit Engineering Public Company Limited

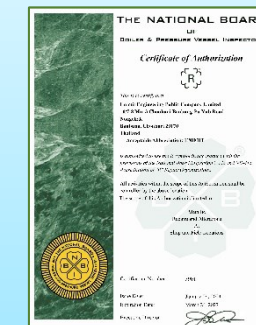
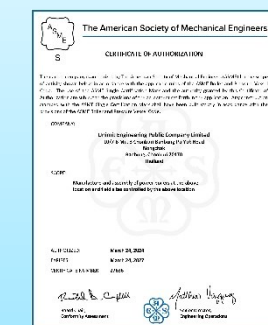
ISO Certificate

Certificate	Subject	Issued Date	Expired Date	Certificate Number	Issued By
ISO 9001:2015	Quality Management System	22-Nov-22	21-Nov-25	10473310	LRQA Limited
ISO 14001:2015	Environmental Management System	25-Jan-23	24-Jan-26	10489911	LRQA Limited
ISO 45001:2018	Health & Safety Management System	25-Jan-23	24-Jan-26	10489911	LRQA Limited



NBIC & ASME Certificate

Certificate	Subject	Issued Date	Expired Date	Certificate Number	Issued By
S	Manufacture and assembly of power boilers	24-Mar-24	24-Mar-27	27636	ASME
U	Manufacture of pressure vessels	24-Mar-24	24-Mar-27	27637	ASME
U2	Manufacture of Class 1 and Class 2 pressure vessels	24-Mar-24	24-Mar-27	27638	ASME
NBIC (R)	Repair of Pressure Vessel	12-Jan-24	24-Mar-27	3901	The National Board



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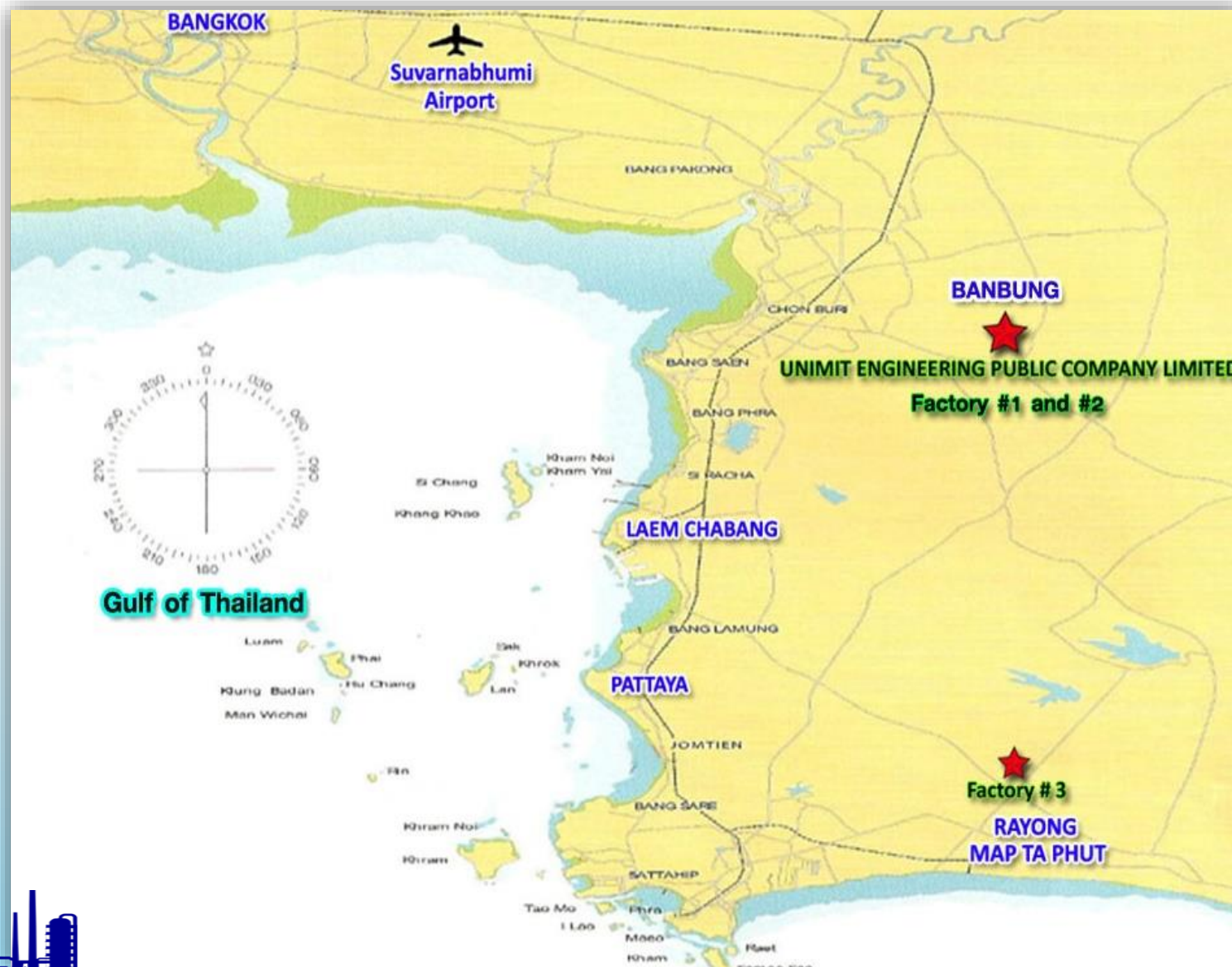
06 *Client & End user list*



Location



Unimit Engineering Public Company Limited



Distance to Export Port

From Factory I, II to

- ↪ LCB Port : 60 km.
- ↪ Maptaphut Port : 90 km.
- ↪ Sattahip Port : 100 km.

From Factory III to

- ↪ Maptaphut Port : 25 km.
- ↪ Sattahip Port : 55 km.

Plant Layout Factory 1 and 2



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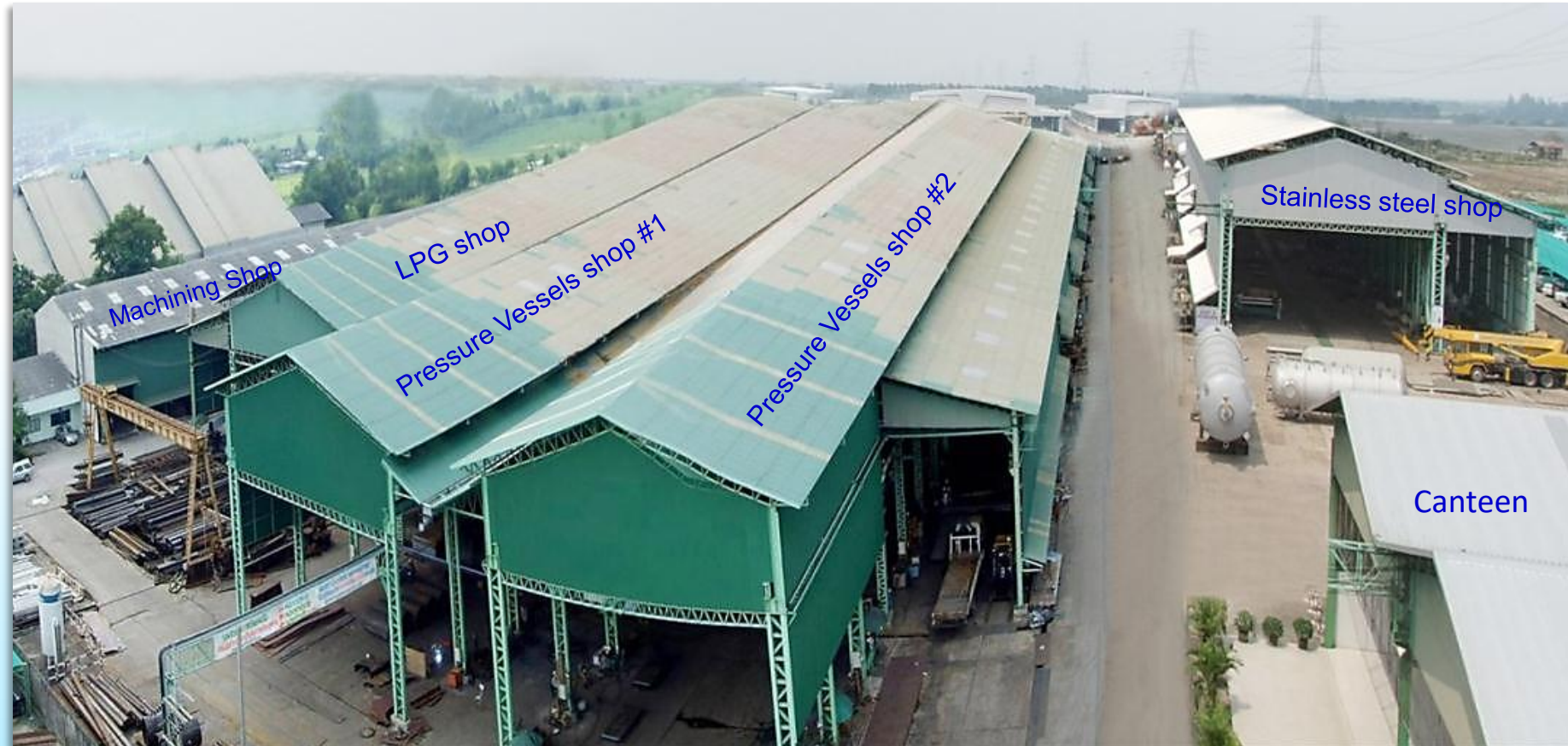


Factory 1



Unimit Engineering Public Company Limited

(Front View)



Description	Factory 1
Total Area	70,400 m2
Number of Building <ul style="list-style-type: none">OfficeWorkshop	2 5
Shop Floor	25,480 m2
Over Head Crane (Max.)	30 Ton
Max. Height Under Crane Hook in Shop	9 M
Warehouse Space indoor	-

Factory 2



Unimit Engineering Public Company Limited



Description	Factory 2
Total Area	123,216 m2
Number of Building <ul style="list-style-type: none"> Office Workshop 	<div>2</div> <div>5</div>
Shop Floor	55,987 m2
Over Head Crane (Max.)	40 Ton
Max. Height Under Crane Hook in Shop	9 M
Warehouse Space indoor	960 M2



Factory 3



Unimit Engineering Public Company Limited



Description	Factory 3
Total Area	38,400 m2
Number of Building <ul style="list-style-type: none">OfficeWorkshop	1 1
Shop Floor	2,160 m2
Over Head Crane (Max.)	15 Tons
Max. Height Under Crane Hook in Shop	12 M



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Client Lists (EPC)



Unimit Engineering Public Company Limited



Client Lists (EPC)



Unimit Engineering Public Company Limited



End User Lists



Unimit Engineering Public Company Limited

Air-Gas Industry



End User Lists (continue)



Unimit Engineering Public Company Limited

Oil & Gas and Refinery Industry



Other Industry



Client Lists (End User)



Unimit Engineering Public Company Limited

Power Sector



And many more. . .

Thank you