



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



- ▶ 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

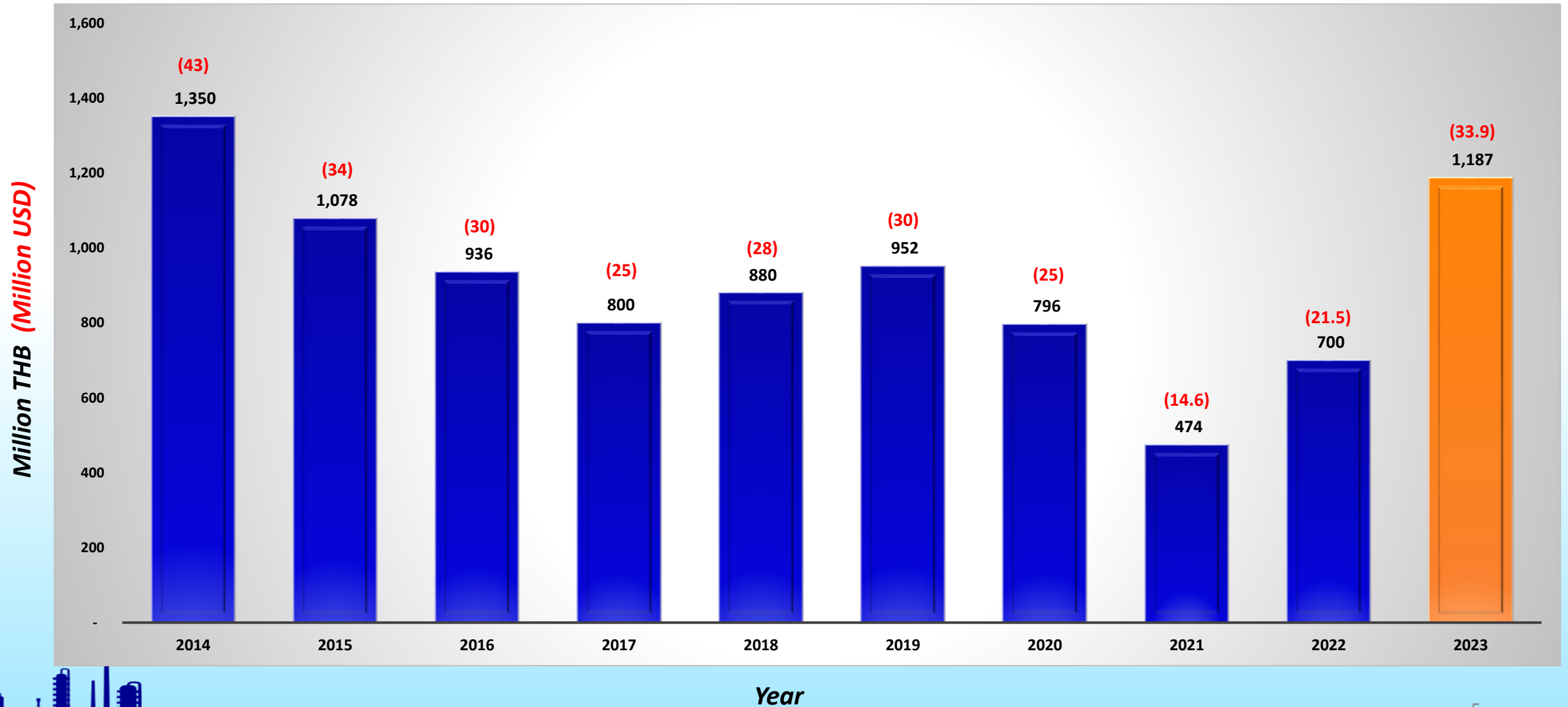
- ▶ Web site: www.unimit.com



Timeline



Revenues



01 *Company overview*

02 *Business segment*

03 *Organization, Manpower and Capacity*

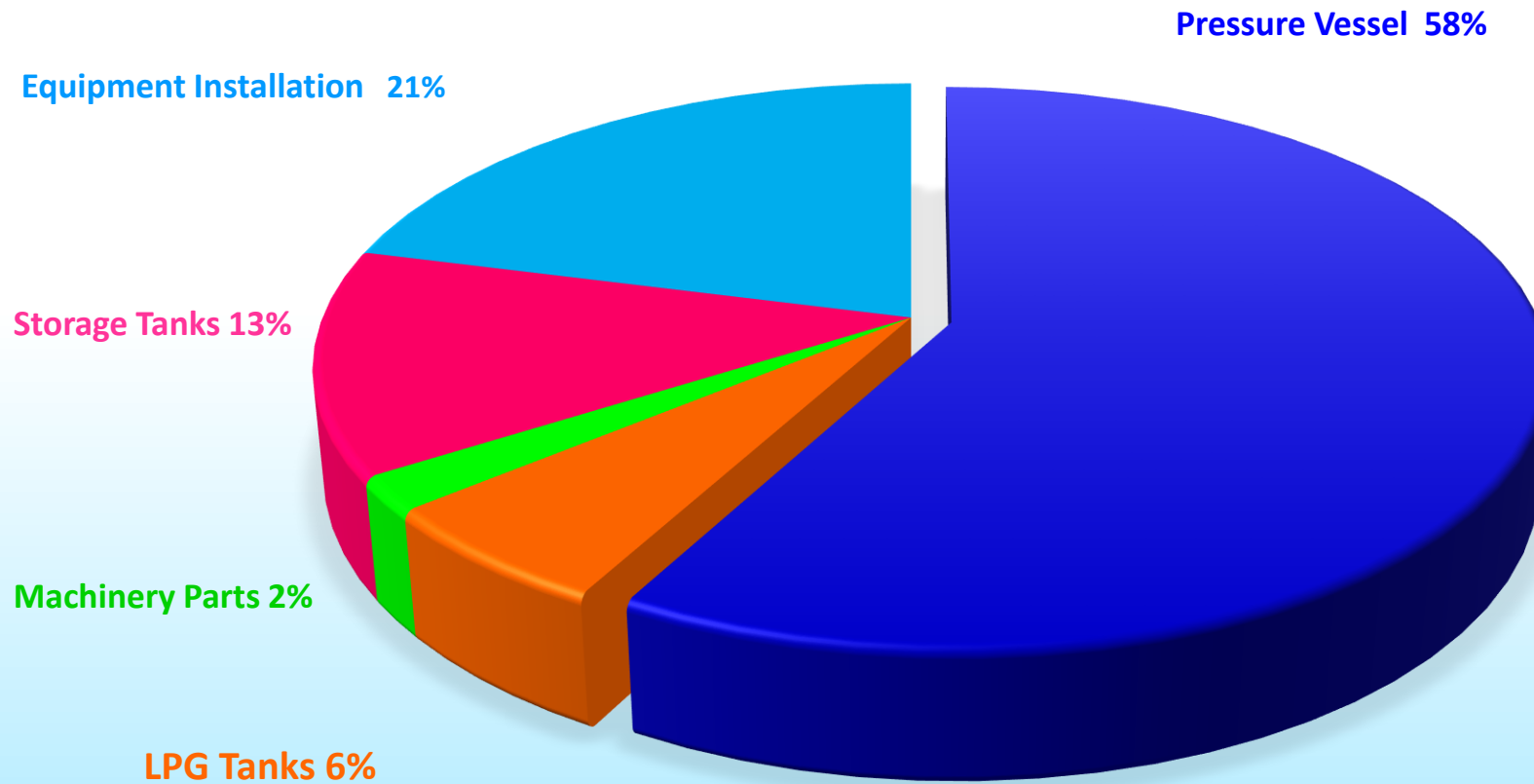
04 *Equipment and Certificates*

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Revenues Segment



Revenues 2023
1,187 Million THB.
(33.9 MUSD.)

Local : 85 %
Export: 15 %



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)



Pressure Vessel (Cryogenic)



Vertical tank 3,000 liters



Horizontal Tank

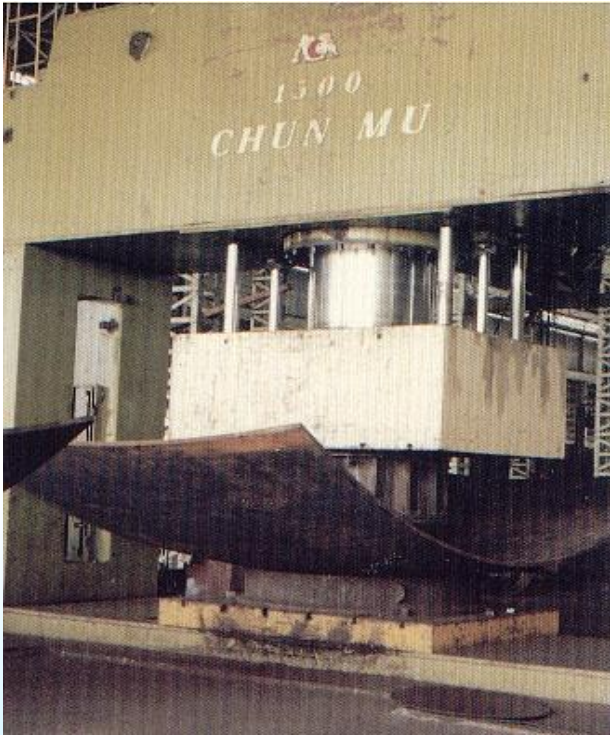
LIN - 310,000 Litres



Vertical Tank

LIN / LOX - 350,000 Litres

Pressure Vessel (Spherical Tank)



Pressure Vessel (Spherical Tank)



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)



Unimit Engineering Public Company Limited

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)



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



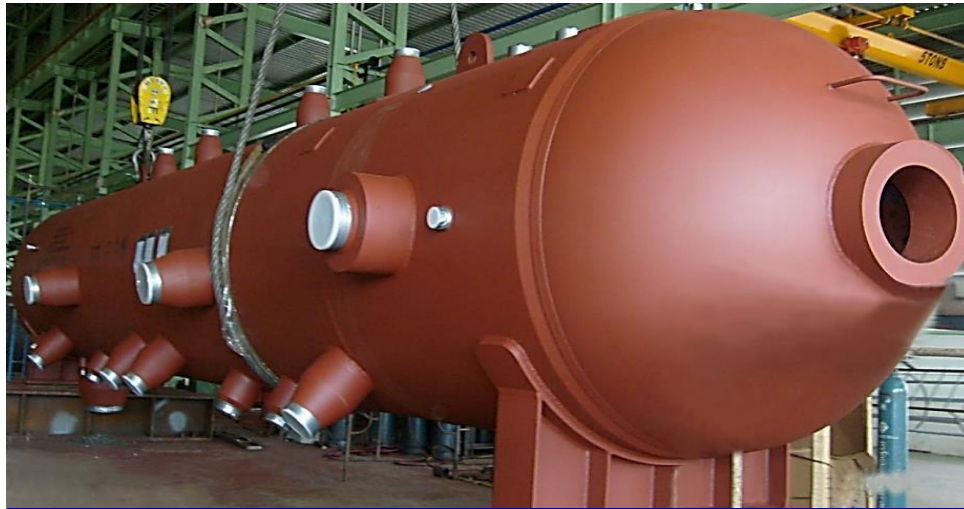
End user: Thai OLEFINS Public Company Limited

Project Name : New Parallel C3 Train

Pressure Vessel (Power Plant)

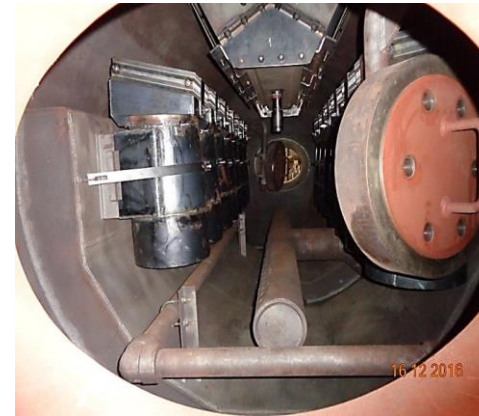


HP Drum



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

LP Drum

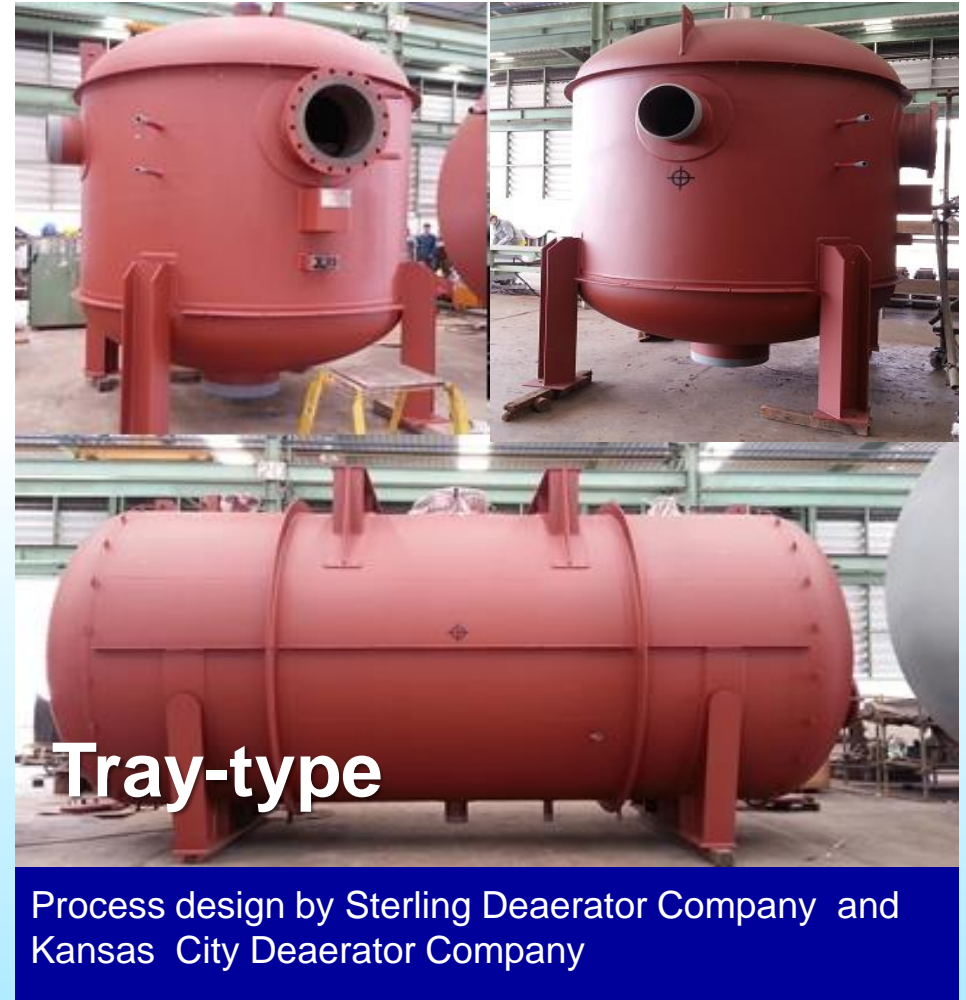


Internal Parts Installation



Blow Down Tank

Pressure Vessel (Deaerator)



Pressure Vessel (Heat Exchanger)



Fixed tube type



Tube bundle



Waste Gas Pre-Heat

Pressure Vessel (Offshore Product)



Unimit Engineering Public Company Limited

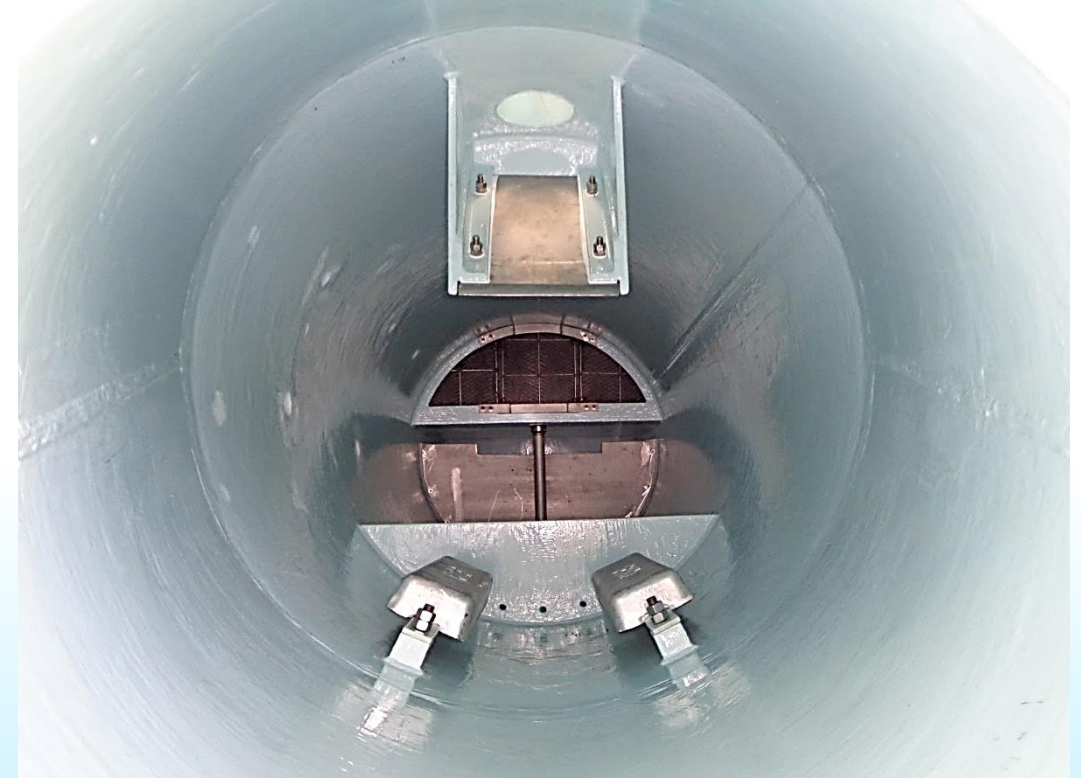


Test separator

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)



Reactor



Reactor



Pressure Vessel

Standard Products

- ▶ LPG tanks
- ▶ Cryogenic tanks

Custom Products

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- ▶ Air receiver tanks



Machinery Parts

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



Storage Tanks

- ▶ Oil tank
- ▶ Water tank
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Piping/Structure Support

- ▶ Pipe Spools
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Equipment installation

- ▶ Tank installation
- ▶ Equipment installations
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Machinery Parts



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



Diverters

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



Project : MEGALOPOLIS, Unit V 811 MW., Greece



Boiler Fan Casing

Machinery Parts



Boiler Fan Casing, Rotors & Static Parts



Buyer : Prony Australia



Fan Casing, Buyer: Alcan Grove Australia

Machinery Parts



Unimit Engineering Public Company Limited

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



PROJECT: VCM 1 Equipment Replacement

Owner: Thai Plastic and Chemical PLC.; year 2014



PROJECT: TTM New Incinerator Project , Thailand

Purchaser Callidus / TRC., year 2017



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Storage Tanks



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

Storage Tanks



Project : HPPO2-HP Project, Rayong, Thailand

Owner : Solvey Peroxythai Limitedear , Year 2011

Storage Tanks



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

Storage Tanks



Project : Rungtawan II , Rayong , Thailand

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

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Piping/Structure Support

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Equipment installation

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Pipe Spools



Pipe spools

PROJECT: JRU –Malaysia
Customer : Vetco aibel



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

Pipe Spools



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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Equipment installation

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



Equipment Installation



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



Unimit Engineering Public Company Limited



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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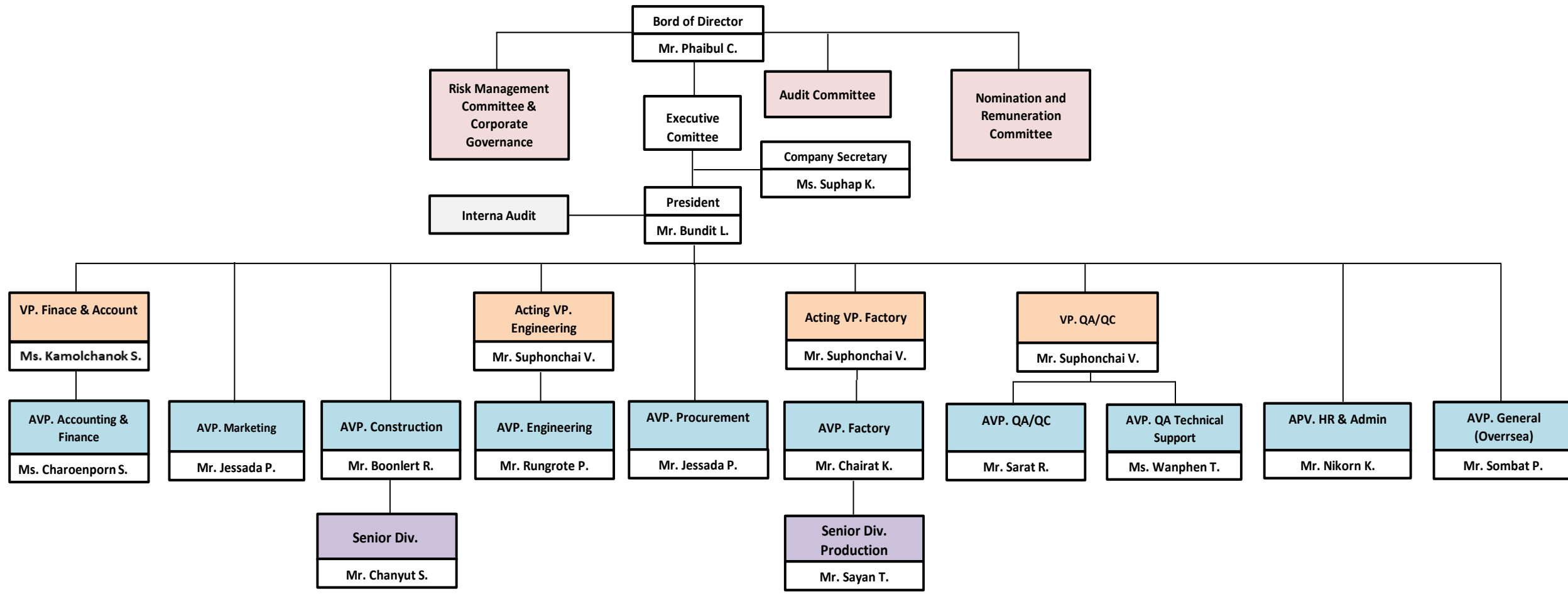
04 *Equipment and Certificates*

05 *Location*

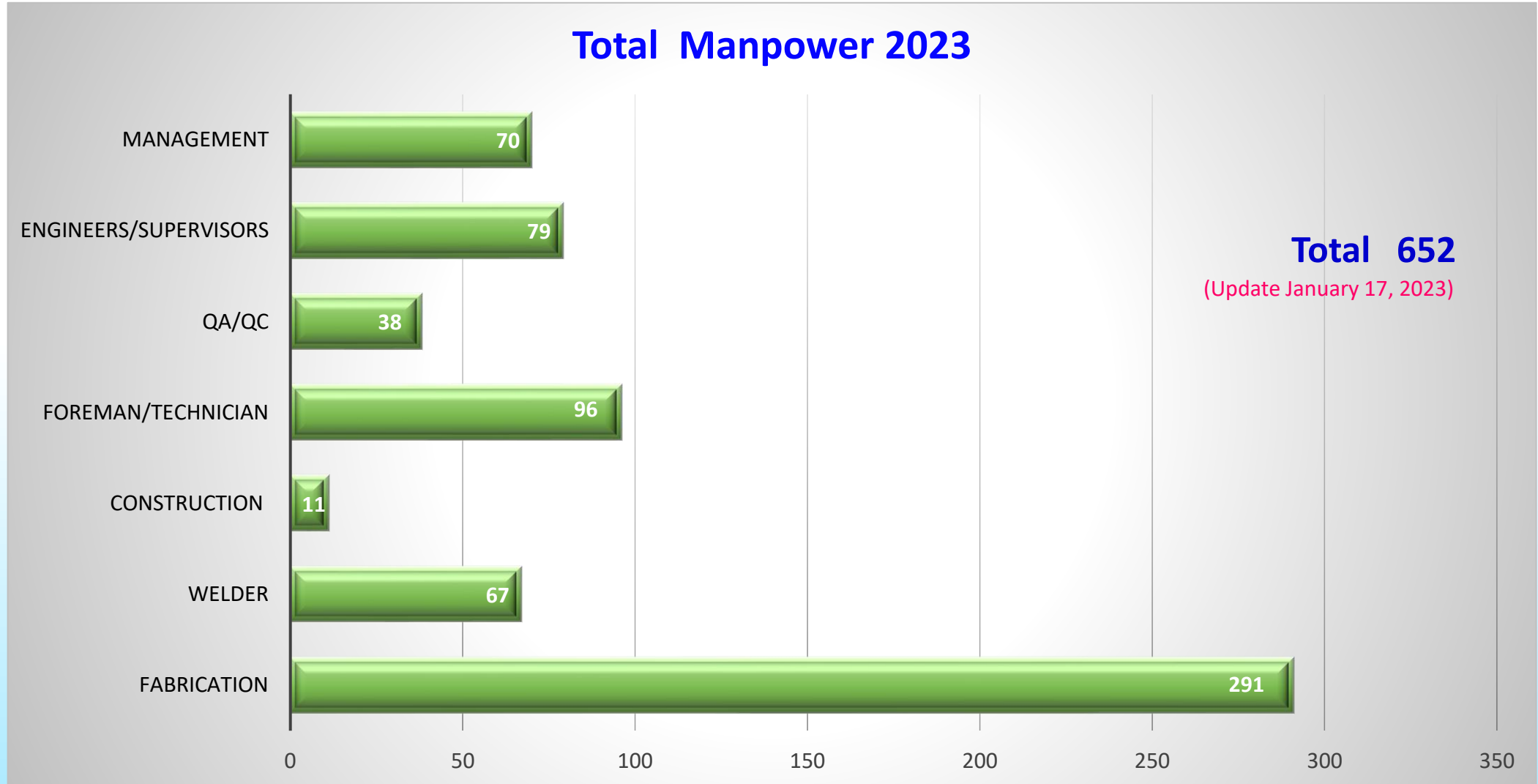
06 *Client & end user list*



03 Organization



Manpower



- **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



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.

Hydraulic pressing 900 tons and 1,500 tons



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

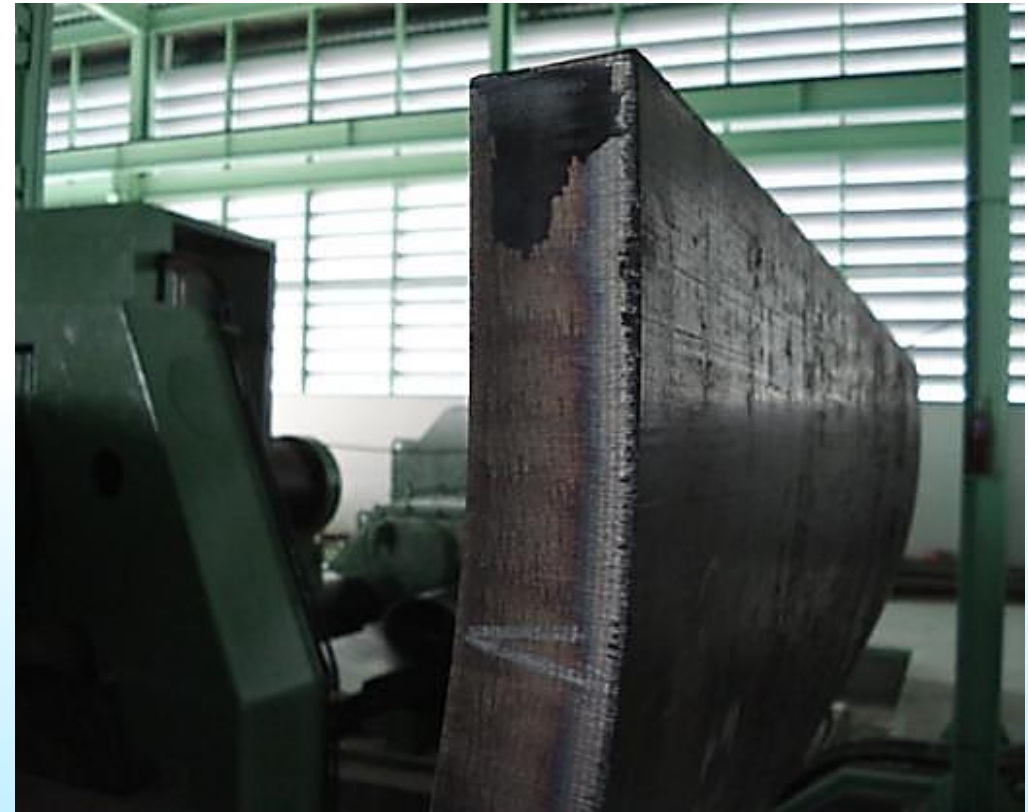


Max Load 1,500 Tons
Max 6 Meters Span

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



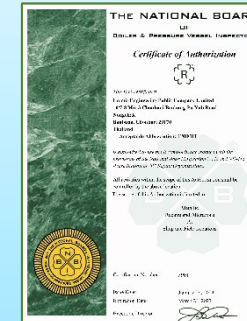
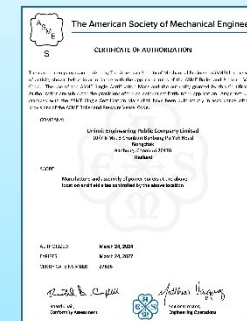
ISO Certificate

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



01 *Company overview*

02 *Business segment*

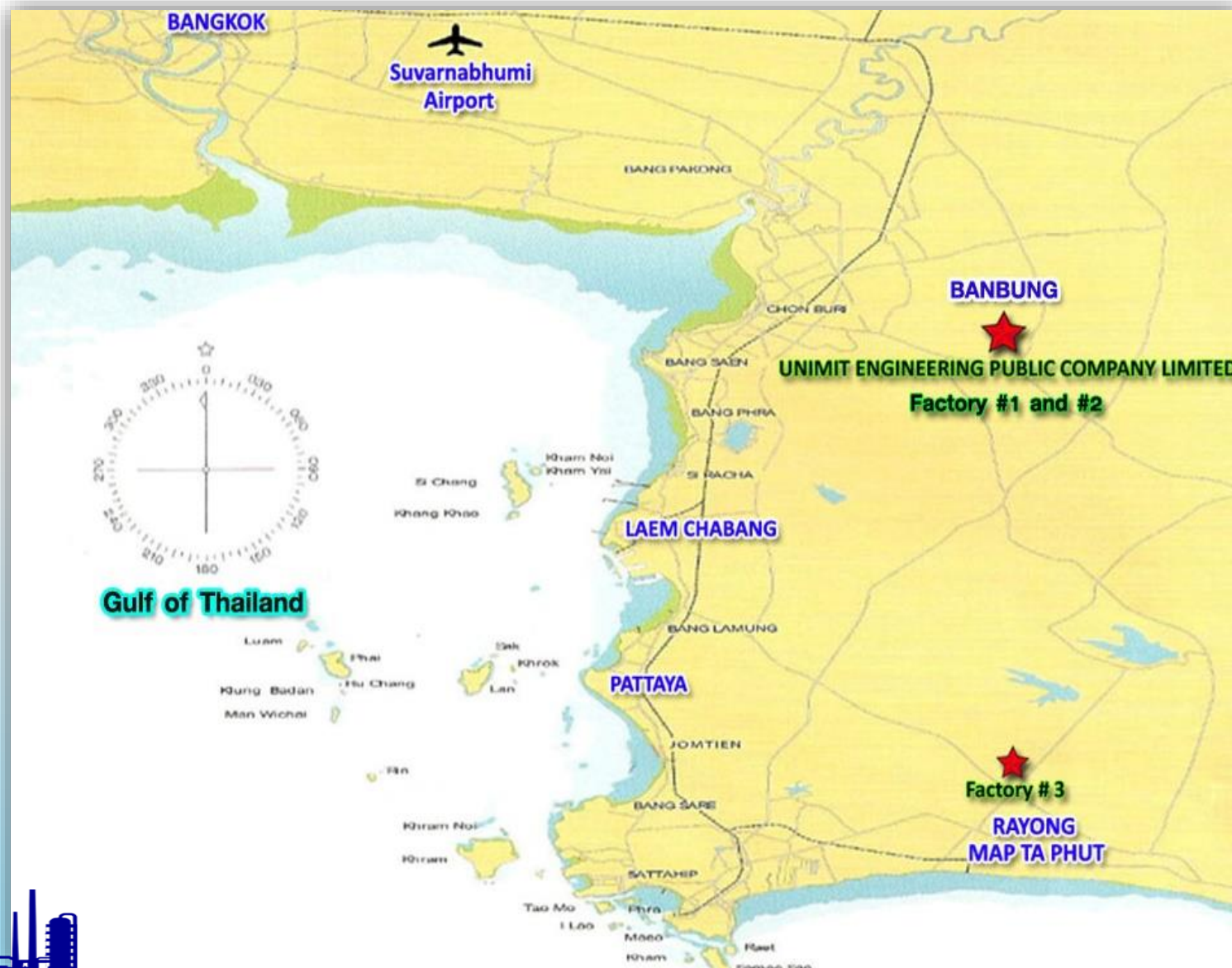
03 *Organization, Manpower and Capacity*

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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.

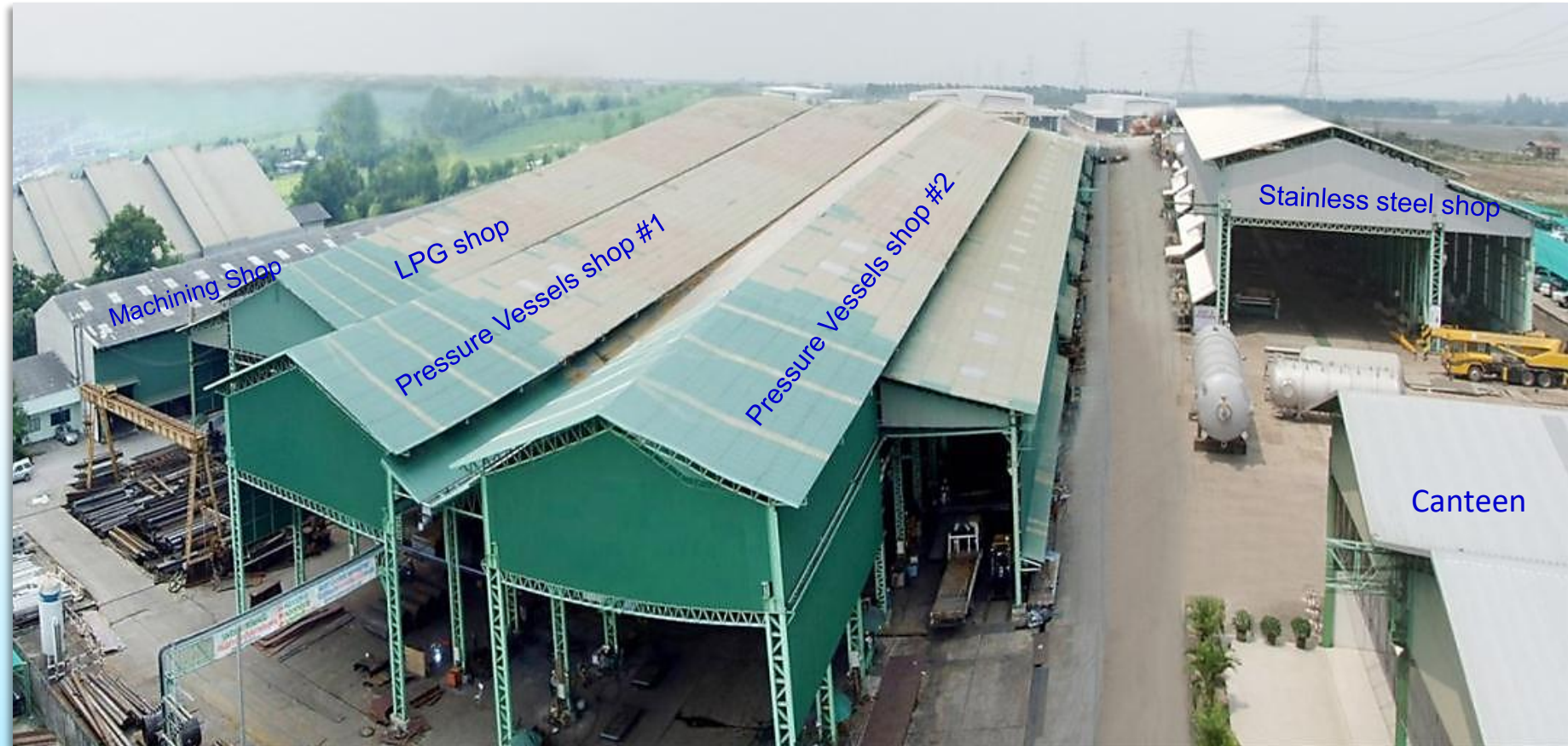
Plant Layout Factory 1 and 2



Factory 1



(Front View)



Description	Factory 1
Total Area	70,400 m2
Number of Building	
▪ Office	2
▪ Workshop	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



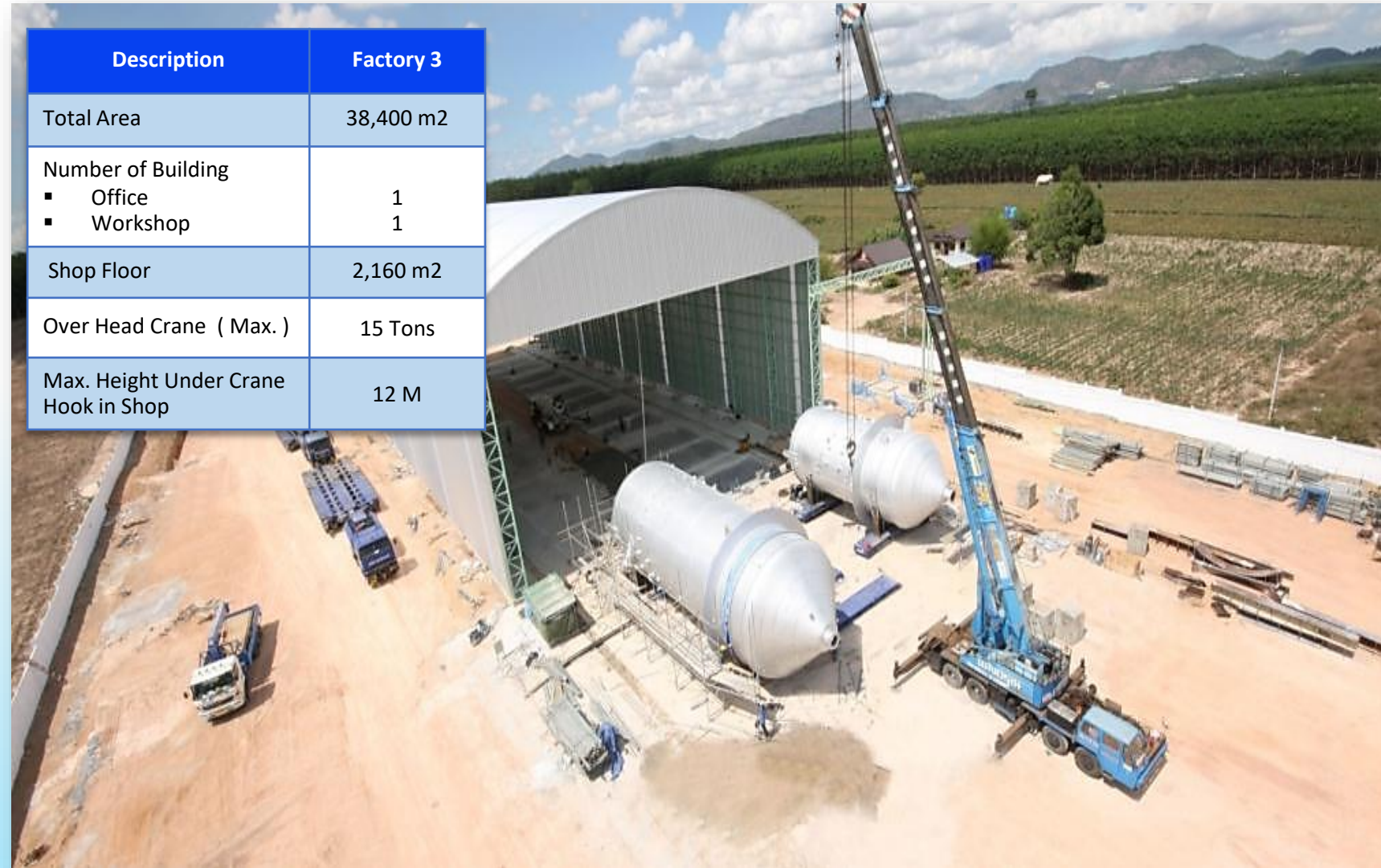
Description	Factory 2
Total Area	123,216 m2
Number of Building	
▪ Office	2
▪ Workshop	5
Shop Floor	55,987 m2
Over Head Crane (Max.)	40 Ton
Max. Height Under Crane Hook in Shop	9 M
Warehouse Space indoor	960 M2



Factory 3



Description	Factory 3
Total Area	38,400 m2
Number of Building	
▪ Office	1
▪ Workshop	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)



Client Lists (EPC)



End User Lists



Unimit Engineering Public Company Limited

Air-Gas Industry



End User Lists (continue)



Oil & Gas and Refinery Industry



Other Industry



Client Lists (End User)



Unimit Engineering Public Company Limited

Power Sector



And many more. . .

Thank you