

# Qualitech Engineering & Construction Co., Ltd.



Head Office:  
Bangkok



Factory:  
Rayong



**QTEC has been operated since 1991**

**Qualitech Engineering & Construction Co., Ltd. (QTEC) is a Construction Company providing services of**

- ⚙ **Mechanical Works Fabrication Installation, Piping systems, Structural Steel, Storage Tank & Pressure Vessels, Plate Works, Pipeline, Equipment Installation**
- ⚙ **Civil Works**
- ⚙ **Electrical & Instrumentation, HVAC and Utilities Systems**



# HISTORY



Our fabrication facilities are located in Maptaphut, which can provide every steel fabrication works such as structural steel, piping, plate, tanks and small pressure vessels.

QTEC has financial supports from Domestic Commercial Banks and Financial Institution approx. 300,000,000.00 Baht upon request.



## AREA OF SERVICES

- ⚙ **Oil and Gas**
- ⚙ **Refinery**
- ⚙ **Petrochemical**
- ⚙ **Energy & Power Plant**
- ⚙ **Water and Waste Treatment Plant**
- ⚙ **Environmental Protection**
- ⚙ **Industrial Plants, Facilities and Warehouses**



# ACCREDITATION AND SYSTEMS

**QTEC** is certified ISO 9001:2015 that ensure International Standards for Quality Assurance and Control.

**Project Management** is using computerized tools;

- ⚙ Primavera Contractor/ MS. Project: for scheduling
- ⚙ Excel and Access: for Progress monitoring and Material Control
- ⚙ AutoCAD and X-Steel: for Shop Drawings
- ⚙ Barcode for Material Control System

**Safety:** **QTEC** has been striving under the lead of International Company to reach International Standard level.



# Factory / Fabrication Shop



**RAYONG Facility (Area)**

<b>Total Area</b>	<b>212,800</b>	<b>m<sup>2</sup></b>
<b>Office</b>	<b>2,000</b>	<b>m<sup>2</sup></b>
<b>Warehouse</b>	<b>1,800</b>	<b>m<sup>2</sup></b>
<b>Fabrication Shop</b>	<b>15,000</b>	<b>m<sup>2</sup></b>
<b>Lay - Down Yard</b>	<b>183,300</b>	<b>m<sup>2</sup></b>
<b>Blast /Paint Shop</b>	<b>3,320</b>	<b>m<sup>2</sup></b>
<b>Others</b>	<b>7,380</b>	<b>m<sup>2</sup></b>

**RAYONG Facility (Number of Shops)**

<b>Fabrication</b>	<b>10</b>	<b>Shop</b>
<b>Detail Part Shop</b>	<b>1</b>	<b>Shop</b>
<b>Blasting</b>	<b>2</b>	<b>Shop</b>
<b>Painting</b>	<b>1</b>	<b>Shop</b>
<b>Warehouse</b>	<b>2</b>	<b>Shop</b>
<b>Maintenance</b>	<b>1</b>	<b>Shop</b>



## HUMAN RESOURCES

Management	5
Project Managers and Engineers	30
Construction Supervisors	50
QC / Technicians / Draftsman	60
Finance and Accounting Staff	15
Procurement and Material Control Staff	20
Other Administrative and Support Staff	60
Foremen and Direct Workers	1,500



## **SERVICES CAPACITY for 1 Year**

### **MECHANICAL WORKS**

<b>Equipment Installation</b>	<b>5,000</b>	<b>Tons</b>
<b>Vessels and Tanks Fabrication and Erection</b>	<b>1,000</b>	<b>Tons</b>
<b>Steel Structures Fabrication and Erection</b>	<b>6,500</b>	<b>Tons</b>
<b>Piping Works</b>	<b>500,000</b>	<b>di</b>



## **Major Projects YEAR 2019 - 2023**

<b>Sakura Project (Mechanical Work)</b>	<b>GC Maintenance and Engineering Company Limited</b>	<b>387 MB</b>
<b>MTP PG Expansion Project</b>	<b>DOW Chemical Thailand Limited</b>	<b>89 MB</b>
<b>PTTLNG Nong Fab LNG &amp; Fuel Gas Skid Fabrication Project</b>	<b>Sensia/ ITS/ SPCC/ PTTLNG</b>	<b>56 MB</b>
<b>EAGLE Project (Structure Steel and Equipment Installation Work)</b>	<b>Purac (Thailand) Limited (Corbion)</b>	<b>900 MB</b>
<b>PTTLNG Map Ta Phut Modification for Interconnecting Pipeline Project (EPCC)</b>	<b>PTTLNG Company Limited</b>	<b>305 MB</b>
<b>OLEFINS 3 T/A 2021 at GC11 (Piping and Mechanical Package)</b>	<b>PTT Global Chemical Public Company Limited (GC)</b>	<b>20 MB</b>
<b>Renew Dehydrogenation Reactor Project</b>	<b>IRPC Public Company Limited.</b>	<b>27 MB</b>
<b>MTP CT1 Site Demolition</b>	<b>ROHM and HAAS Chemical (Thailand) Ltd. (DOW Group)</b>	<b>34.5 MB</b>



## Major Projects YEAR 2019 - 2023

<b>MLGC (DOW)</b>	<b>Carbide Chemical (Thailand) Ltd. (DOW Group)</b>	<b>65 MB</b>
<b>Thai Oil CFP (Piping Spool Fabrication)</b>	<b>Sinopec Engineering Group (Thailand) Co., Ltd.</b>	<b>80 MB</b>
<b>Main Steel Structure Services(Top Side) for PTTEP Project</b>	<b>Thai Nippon Steel Engineering &amp; Construction Corporation LTD.</b>	<b>144 MB</b>
<b>PTTGC GC3 T/A 2020</b>	<b>PTT Global Chemical Public Company Limited (GC)</b>	<b>45 MB</b>
<b>Mixed C4 GC7</b>	<b>GC Matntenance and Engineering Co., Ltd.</b>	<b>50 MB</b>
<b>Dow Chemical Group Small Project</b>	<b>DOW Chemical Thailand Limited</b>	<b>52 MB</b>
<b>Improving Refinery Energy Efficiency GC6 (Pinch Project)</b>	<b>PTT Global Chemical Public Company Limited (GC)</b>	<b>218 MB</b>
<b>GC Oxyrane Propylene Oxide Project</b>	<b>Samsung Engineering(Thailand) Co., Ltd.</b>	<b>58.5 MB</b>
<b>FCC Reliability Improvement Project</b>	<b>Star Petroleum Refining PCL.</b>	<b>103 MB</b>

## **Major Projects YEAR 2015 - 2018**

<b>NGD WHA # 4 Gas Pipeline &amp; M/R Station</b>	<b>Gulf Energy Development Co., Ltd.</b>	<b>191 MB</b>
<b>DOW Chang Project</b>	<b>DOW Chemical Co., Ltd.</b>	<b>165 MB</b>
<b>NGD WHA # 2 Gas Pipeline &amp; M/R Station</b>	<b>Gulf Energy Development Co., Ltd.</b>	<b>151.5 MB</b>
<b>LPG &amp; NG Pipeline Project</b>	<b>Kabinburi Glass Industry Co., Ltd.</b>	<b>28 MB</b>
<b>IRPC Turn Around 2016</b>	<b>IRPC Public Company Limited</b>	<b>155 MB</b>
<b>UHV Unit 52 PRS MOV's (IRPC)</b>	<b>GS Engineering &amp; Construction Corporation</b>	<b>38 MB</b>
<b>Bent Steel LACC EP Project (USA) and Upper F104 &amp; F106 (RAPID)</b>	<b>CBI (Thailand) Ltd.</b>	<b>70 MB</b>
<b>DPEX Project (TPE) Mechanical and Piping Works</b>	<b>ThyssenKrupp Industrial Solution (Thailand) Ltd.</b>	<b>347 MB</b>



## **Major Projects YEAR 2015 - 2018**

<b>THEP Project Mechanical and Piping Works</b>	<b>BASF Chemcat (Thailand) Limited</b>	<b>110 MB</b>
<b>LCNG Station Project (Civil, Piping, Mechanical and E &amp; I Works)</b>	<b>PTT Company Limited</b>	<b>50.8 MB</b>
<b>SE Loading Station</b>	<b>Dow Chemical Thailand Ltd.</b>	<b>70 MB</b>
<b>Thai MMA C-1400 Improvement Project</b>	<b>Thai MMA Co., Ltd. (SCG Group)</b>	<b>15.7 MB</b>
<b>PPC &amp; PPE Project (IRPC) Reactor Modification, Warehouse &amp; U/G Piping Works</b>	<b>SINOPEC Engineering Group (Thailand) Co., Ltd.</b>	<b>28 MB</b>
<b>ARDB Aromatic II (PTTGC) Piping Tie-in Work</b>	<b>PTT Maintenance and Engineering Co., Ltd.</b>	<b>21.5 MB</b>
<b>Manpower Supply for IRPC UHV Plant</b>	<b>GS Engineering &amp; Construction Corporation</b>	<b>45 MB</b>

## **Major Projects YEAR 2015 - 2018**

<b>Gas Pipeline &amp; Metering and Regulation Station</b>	<b>Bowin Clean Energy Limited</b>	<b>71.3 MB</b>
<b>Mechanical Services to ESSO SRIRACHA REFINERY</b>	<b>Esso (Thailand) Public Company Limited</b>	<b>58 MB</b>
<b>VGOHT Recovery (IRPC) Piping &amp; Mechanical Work</b>	<b>IRPC Public Company Limited</b>	<b>325 MB</b>
<b>UHV Plant Project (IRPC) 72 &amp; 73</b>	<b>SK Engineering &amp; Construction Co., Ltd.</b>	<b>427 MB</b>
<b>TOC GC EO/EG Expansion – II</b>	<b>Samsung Thai Engineering Co., Ltd.</b>	<b>188 MB</b>
<b>Phenol Plant Train II (PTTGC)</b>	<b>Posco Engineering (Thailand) Co., Ltd.</b>	<b>310 MB</b>



## Major Projects YEAR 2012 - 2014

<b>UHV Plant Project (IRPC)</b>	<b>GS E&amp;C Corporation</b>	<b>137 MB</b>
<b>PTT PHR – 3 (ESP)</b>	<b>Samsung Engineering Co., Ltd.</b>	<b>93 MB</b>
<b>Bibiyana Expansion (BANGLADESH) / Modules Work</b>	<b>Chevron / FW.</b>	<b>620 MB</b>
<b>B.V. (PTTGC) / Offsite Area Package # 3</b>	<b>PTT GC / PTT ME</b>	<b>405 MB</b>
<b>ZCT 1301 (Main Piping Work, Steel Structure &amp; Equipment Installation)</b>	<b>Shinko Plantech (Thailand) Co., Ltd.</b>	<b>110 MB</b>
<b>B.V. (PTTGC) / Piping &amp; Steel Structure Work</b>	<b>Toyo-Thai Corporation</b>	<b>185 MB</b>
<b>Rung Tawan</b>	<b>Toyo-Thai Corporation PLC.</b>	<b>155 MB</b>
<b>EI &amp; PSA-3 Project (Early Mechanical Work)</b>	<b>Thai Oil Public Company Limited</b>	<b>551 MB</b>

## Major Projects YEAR 2010 - 2012

Anaerobic Treatment Project/ Mechanical Works	Purac (Thailand) Ltd.	65 MB
Thailand PV Film – Compounding Bldg. / Mechanical Works	Dow Chemical Thailand Ltd.	60 MB
TMP Project – Malaysia / Piping Fabrication Work	Shinko Plantech Japan	48 MB
New TLB Product Tank / Mech+Pipe Installation	Thai Lube Base Pcl.	89 MB
IRPC/GHU Technology Revamp / Structure/Piping & Eqm. Install	IRPC Public Company Limited	130 MB
DBN3 (UBE) D-155 (Piping Works)	Toyo-Thai Corporation Public Co., Ltd.	65 MB
NG Underground Pipelines for VDU & Hot Oil Heaters	Thai Lube Base PCL.	35 MB



## Major Projects YEAR 2010 - 2012

<b>Gas Pipeline Metering &amp; Regulation Station (EPC Contract)</b>	<b>Amata B. Grim Power 3</b>	<b>83 MB</b>
<b>Sriracha Clean Fuels / Mechanical Works</b>	<b>Foster Wheeler International (Thailand)/ Exxon Sriracha</b>	<b>172 MB</b>
<b>Windmill-ABT (Viny Thai)/HPP00-HP (EVCC)</b>	<b>Toyo-Thai Corporation</b>	<b>120 MB</b>
<b>Emerald /Mechanical+Structure</b>	<b>Purac (Thailand)</b>	<b>107 MB</b>
<b>VDU &amp; Hot Oil Heaters Modification and Relocation Tank</b>	<b>Thai Lube Base</b>	<b>122.5 MB</b>
<b>Emerald /Mechanical+Structure</b>	<b>Purac (Thailand)</b>	<b>107 MB</b>

# Major Projects YEAR 2003 - 2009

<b>TGTU 1 - ARU2 (IRPC)</b>	<b>Uhde Shedden (Thailand)</b>	<b>53 MB</b>
<b>Karratha NRU Module Fabrication/Pluto LNG Plant</b>	<b>Linde AG/Woodside</b>	<b>370 MB</b>
<b>MOC Cracker Project</b>	<b>Samsung Engineering</b>	<b>222 MB</b>
<b>TOC EO/EG Exp. 1 Project</b>	<b>Samsung Engineering</b>	<b>50 MB</b>
<b>RRC Upgrade Project</b>	<b>SKEC (Thailand)</b>	<b>240 MB</b>
<b>The Ethanolamine (TEA) Project</b>	<b>Thai Ethanolamine (PTT Chemical Group)</b>	<b>190 MB</b>
<b>PTT Ethane Separation Plant</b>	<b>Samsung Engineering (Thailand) Co., Ltd.</b>	<b>830 MB</b>
<b>NPCX Polyethylene Plant</b>	<b>Samsung Engineering Co., Ltd.</b>	<b>140 MB</b>
<b>Truck Tyre Factory Extension</b>	<b>Siam Tyre Industrial Co., Ltd.</b>	<b>165 MB</b>
<b>TOC EO/EG Plant</b>	<b>Samsung Engineering Co., Ltd.</b>	<b>85 MB</b>



# Major Projects YEAR 2003 - 2009

<b>Tyre Steel Cord Factory Expansion 2004 (SSC 4)</b>	<b>Siam Steel Cord Co., Ltd.</b>	<b>80 MB</b>
<b>MIGP Air Separation Plant</b>	<b>Air Products / BIG</b>	<b>85 MB</b>
<b>ALCAN G3</b>	<b>ALCAN</b>	<b>480 MB</b>
<b>Motorcycle Tyre Production Plant</b>	<b>Siam Tyre Phra Pradaeng</b>	<b>120 MB</b>
<b>Vincent FPSO Project</b>	<b>Vetco Aibel</b>	<b>55 MB</b>
<b>TPX Revamp Project / Steel Structure Fabrication</b>	<b>Bechtel International, INC</b>	<b>120 MB</b>
<b>C4175 EGTL Nigeria Chevron Module Supply</b>	<b>Air Products PLC (UK)</b>	<b>320 MB</b>
<b>ATC Reformer &amp; Aromatic Complex II</b>	<b>SKEC (Thai)</b>	<b>134 MB</b>
<b>Quienten /Mechanical works</b>	<b>Purac</b>	<b>40 MB</b>





**EAGLE Project (Structure Steel, Equipment Installation and Piping Work)**

Steel Structure	5,000	Tons
Piping Work	65,000	Di
Scaffolding Work	650,000	m <sup>3</sup>
Vessel Reactor Assembly(2 Unit)	380	Tons
Equipment Installation Work	500	Tons
Contract Amount 25.8 Million USD (900 MTHB)		







## PTTLNG Nong Fab LNG & Fuel Gas Skid Fabrication Project



Piping Work	5,000	Di
Painting Work	2,000	m <sup>2</sup>
Steel Structure Work	65	Tons
Skid (4) Transport & Installation Work	218	Tons
E&I Work		
Contract Amount 1.5 Million USD		





## EPCC for PTTLNG Map Ta Phut Modification for Interconnecting Pipeline Project (MITCP)

**A/G LNG Pipeline 28" & 10"**

**750 Meters**

**Modify of Metering (UFM)**

**2 Runs**

**ICS, SCADA, Flow Comp. Modification**

**Piping, Civil Work, Steel Structure Work and E&I Work**

**Contract Amount 9 Million USD**





## Chevron Bangladesh Block Tweleve, Ltd. Bibiyana Expansion (Bangladesh)

Piping Work	100,000	Di
Structural Steel Work	1,500	Tons
Equipment Installation	446	Tons
Electrical & Instrumentation Work		
Contract Amount 20 Million USD		





## PTT Maintenance and Engineering Co., Ltd. BV Project Offsite Area Package # 3 (PTTGC)



Civil Work including Engineering, Piping Work	30,000	Di
Steel Structure and Equipment Installation Work	700	Tons
Tanks and Pressure Vessels Work	9	Nos
Project Schedule	Nov. 2012	Nov. 2013
Final Contract Amount	405,000,000	Baht



## IRPC Public Company Limited. VGOHT Recovery Project



Demolish Work, Steel Structure Work	600	Tons
Equipment Installation Work	350	Tons
Piping Work	40,000	Di
Project Schedule	Sep. 2014	Apr. 2015
Final Contract Amount	352,900,000	Baht



## Samsung Engineering Co., Ltd. PTT PHR-3 (ESP) Project



**Piping Work**

**14,500**

**Di**

**Equipment Installation Work**

**1,400**

**Tons**

**Piping Tie-in**

**1**

**Lot**





**Esso (Thailand) Public Company Limited.**  
**HRSG-4001 Tube Replacement Project**

**Primary & Secondary Superheater Tube and Evaporator Tube  
Economizer Tube, Internal Steam Drum Replacement**





**Thai Oil Company Limited.**  
**EI & PSA-3 Project Early Mechanical Work**

Piping Work	120,000	Di
Structural Steel Work	2,200	Tons
Project Schedule	Apr. 2012	Dec. 2013
Final Contract Amount	555,000,000	Baht





**Thai Lube Base Public Company Limited.**  
**NG Pipeline Installation for**  
**VDU & Hot Oil Heaters Project**

**U/G Gas Pipeline 8"**

**1,200 Meters**

**Structural Steel Work**

**1.4 Tons**

**Electrical & Instrumentation work**



Thai Lube Base Pcl. /  
VDU & Hot Oil Heater Modification and Tank  
Relocation (Piping) Project

Piping Work	35,000	Di
Structural Steel Work	320	Tons
Equipment Installation	200	Tons





**Karratha Pluto LNG Plant**  
**NRU Module / Linde AG**

<b>Piping Work</b>	<b>35,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>1,200</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>300</b>	<b>Tons</b>
<b>Electrical &amp; Instrumentation work</b>		



## PAST EXPERIENCE PROJECT

### PTT Ethane Separation Plant (ESP) Samsung Engineering

Piping Work	540,000	Di
Pipe Support Work	480	Tons
Structural Steel Work	6,000	Tons
Equipment Installation	11,000	Tons





**MOC Cracker Project**  
**Samsung Engineering**



<b>Piping Work</b>	<b>248,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>1,400</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>4,965</b>	<b>Tons</b>





## PAST EXPERIENCE PROJECT

### RRC Upgrading Project SKEC Thai Limited

<b>Piping + Support Work</b>	<b>200,000</b>	<b>Di</b>
<b>Equipment Installation</b>	<b>2,300</b>	<b>Tons</b>
<b>Painting</b>	<b>45,000</b>	<b>m<sup>2</sup></b>
<b>Steam Tracing</b>	<b>3,200</b>	<b>m</b>





The Ethanolamine (TEA)  
TEA (PTT Chemical Group)

PAST EXPERIENCE  
PROJECT



<b>Piping Work</b>	<b>110,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>550</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>600</b>	<b>Tons</b>



# PAST EXPERIENCE PROJECT



ATC Reformer &  
Aromatic Complex II Project  
SKEC (Thai)



**Piping Work**

**200,000**

**Di**

**Equipment Installation**

**1,530**

**Tons**





**Escravos Gas To Liquid Project (EGTL)/  
Nigeria - Chevron Module Supply  
Air Products PLC**



<b>Piping Work</b>	<b>80,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>1,000</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>300</b>	<b>Tons</b>



**Vincent FPSO Project**  
**Vetco Aibel**

<b>Piping Work</b>	<b>40,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>800</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>550</b>	<b>Tons</b>





# PAST EXPERIENCE PROJECT



**ALCAN Gove third Stage Expansion**  
**(G3)/Evaporation Plant**  
**Australia**



Piping Work	120,000	Di
Structural Steel Work	750	Tons
Equipment Installation	1,400	Tons



## PAST EXPERIENCE PROJECT



**ALCAN G3 / High Temp Digester Plant**  
**(Australia)**



<b>Piping Work</b>	<b>100,000</b>	<b>Di</b>
<b>Structural Steel Work</b>	<b>2,200</b>	<b>Tons</b>
<b>Equipment Installation</b>	<b>1,000</b>	<b>Tons</b>



# PAST EXPERIENCE PROJECT



## MIGP Project Air Products UK

**Piping Work**

**50,000**

**Di**

**Structural Steel Work**

**400**

**Tons**

**Equipment  
Installation**

**650**

**Tons**





# PAST EXPERIENCE PROJECT



Thai Olefins PLC -  
Samsung Engineering

Piping Work	100,000	Di
Structural Steel Work	800	Tons
Equipment Installation	1,500	Tons





# PAST EXPERIENCE PROJECT



## Escravos Gas to Liquid (EGTL) Chevron Small Module Supply/Nigeria Air Products PLC

**Plate Work, Piping, E & I**

**200 Tons**

**Steel Structure**

**650 Tons**





# PAST EXPERIENCE PROJECT



## Escravos Gas to Liquid (EGTL) Air Products PLC

**Piping Fabrication Work**

**40,000 Di**





## ELECTRICAL & INSTRUMENTATION



**TPN Food Pak Project**



## ELECTRICAL & INSTRUMENTATION



**National Starch  
HVPU and POPIT Project**

**Polytype New Factory Project**



## ELECTRICAL & INSTRUMENTATION





# Certificates ISO 9001 : 2015



*Certificate Number*

**12725**

*Date Certificate Issued*

**28/03/2022**

*Date Certificate Expires*

**28/03/2025**

*World Certification Services Ltd.  
Station Court, Ormskirk Road,  
Aintree, Liverpool, L9 5AA  
United Kingdom*

*with the representative organization of  
WCS (THAILAND) CO.,LTD.  
Tel : +(6683) 555-8995, +(662) 599-9102  
E-mail : isocsthailand@outlook.com*



## CERTIFICATE OF REGISTRATION

*This Certificate has been awarded to:*

**Qualitech Engineering and Construction Co., Ltd.**

**H/O: 589/149 Floor 27<sup>th</sup>, Central City Tower, Debaratna Rd.,  
Bangna nuea, Bangkok, Thailand. 10260.  
Factory: 10/9 Soi Kee Ree, Sukhumvit Rd., T.Huaypong,  
A.Muang, Rayong, Thailand. 21150.**

*In Recognition of the Organisation's Management  
System which complies with:*

**ISO 9001:2015**

*For the Scope of Activities described below:*

**Fabrication of Steel, Structure, Tank, Pressure Vessel,  
Steel Plate Work, Piping Work.**

*This Certificate has been awarded by*

**WORLD CERTIFICATION SERVICES LTD.**

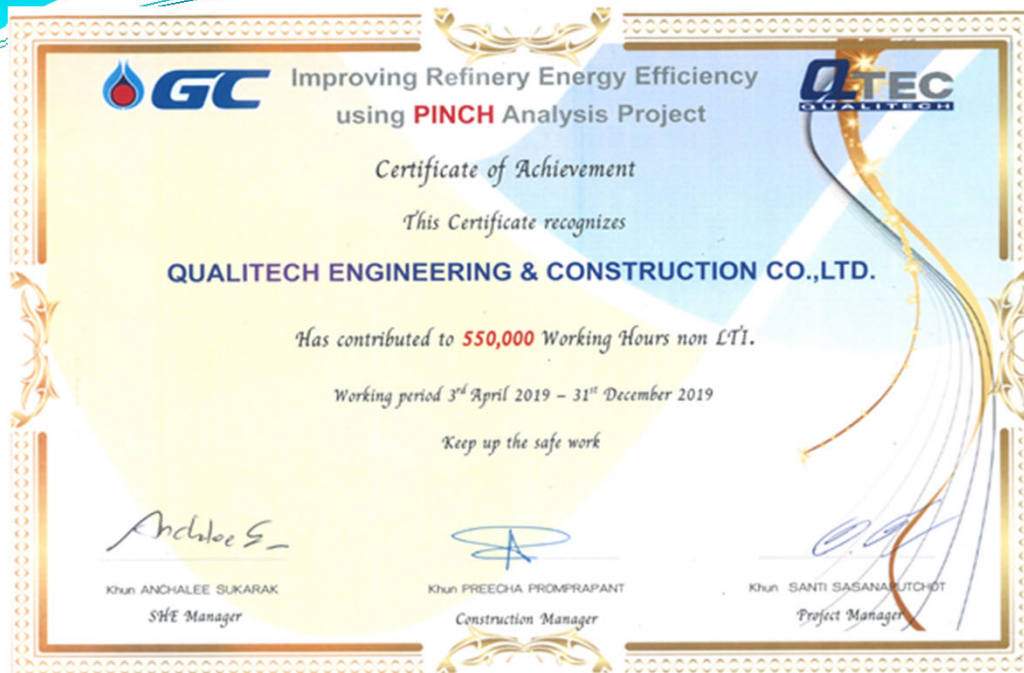
*Issued By:*

The use of the accreditation mark indicates accreditation in respect of those activities covered by UKAS accreditation certificate number 0060 and / or ANAB accreditation certificate number MS-3343





# Certificates & Safety Awards





# Certificates & Safety Awards





# Certificates & Safety Awards

## VGHT RECOVERY PROJECT



### Client/customer

IRPC Public Company Limited

### Client reference

Rangsan Intho, Project Manager

### Location

Rayong, Thailand

### Dates/timing

Sep.2014 - May.2015

### Project value

Contract Value 189.69 MB.  
Actual Value 320.00 MB.

### Project Capacity ( Refinery Plant )

215,000 barrels per day

### Services/ scope

Demolition/Modification service repair the refinery Plant (Vacuum Gas Oil Hydrotreating Units) which damage by fire incident

Civil work for Repairing the refinery Plant (Vacuum Gas Oil Hydrotreating Unit) which damage by fire incident  
Remove and Transport the existing column and Replace the new column and Vessels

Fabrication and Erection the Structural Steel, Plant form and Ladder

Fabrication and Erection Piping work, Painting work, Insulation work and fire proof work

### Project key highlights

Urgent site Development and Construction of the damaged Plan

Urgent dismantle of damaged items

Heavy Lifting for removal of damaged Column and Drums and installation of new ones

Repairing of the damaged Concrete Columns, Foundations, Pipe Racks, Shelter, Painting, Insulation and fire proof

Replacement of damaged Piping, Pumps, Pressure Vessels & Columns, Steel Structure, Painting, Insulation and fire proof

Systems testing and Hand Over

Pre-Commissioning/ Commissioning and Start-Up

Provide the raw materials and delivery on time

Installation the fire proofing concrete

Fabrication and Installation the Fire Fighting System

### QTEC personnel:

Project Manager : Torsak Sorn-Ard  
Site Manager : Chawalit Asasee

### Project description

The IRPC Public Company Limited would like to recovery the damaged Vacuum Gas Oil Hydrotreating by Fire Case on Jun 09, 2014. IRPC require replacing and repairing the VGOHT Units which damage by fire incident and want them ready for starting plant again by end the of May 2015. Several preparation works has been done by IRPC's maintenance team and require further engineering and consultant service from Amec-Foster Wheeler and Construction by QTEC.

### Project highlights (key service(s) provided)

Urgent Construction and recover the damaged unit by fire case

Fabrication and Erection for fire fighting system for VGOHT Unit

Heavy Lifting for the existing new column and vessels

Construction Management and Supervision

QA/QC Monitoring and Control

Manpower Supply for Pre-Commissioning, Commissioning and Start up

### Project challenges/solutions

Manage the construction with the big OT work was provided to achieve the required schedule

Project Critical Path such as piping, equipment works that management to crash the project schedule / Pay extra money to long lead equipment suppliers to minimize lead time

Crashed the Construction schedule by intensive paying to the direct and indirect manpower

Overlap schedule for construction and pre-commissioning/commissioning activities to minimize the pre-commissioning, commissioning and start-up schedule.

### Client requirements / restrictions

Recover the damaged unit to normal operation ASAP.

Zero accident, Safety and Environmental issue

Plant Reliability, Availability

### Benefit statement

Cost/Budget Optimization

2 Months ahead schedule from original plan for Plant Start-Up

Zero Safety Record

No Environmental Issue

Flawless Plant Start Up and Operation.

Improvement of Plant Safety and Reliability

Signed \_\_\_\_\_

( RANGSAN INTHO )

**VACUUM GAS OIL HYDROTREATING RECOVERY  
PROJECT MANAGER**

Issue Date : May 30, 2015



# Certificates & Safety Awards



ประกาศเกียรติคุณ  
ต้นโครงการ SAFE WHITE GREEN

มอบให้เพื่อแสดงว่า



Qualitech Engineering &  
Construction Co., Ltd.

ได้รับรางวัล บริษัทผู้ริเริ่มที่จัดทำระบบ  
การจัดการตามโครงการ SAFE WHITE GREEN

ในงาน 2014 TOP Group QSHE Day  
เมื่อวันที่ 12 พฤศจิกายน 2557

นายอริคม เต็บสิน

ประธานเจ้าหน้าที่บริหารและกรรมการผู้จัดการใหญ่  
บริษัท ไทยออยล์ จำกัด (มหาชน)



# Certificates & Safety Awards Year 2013-2014



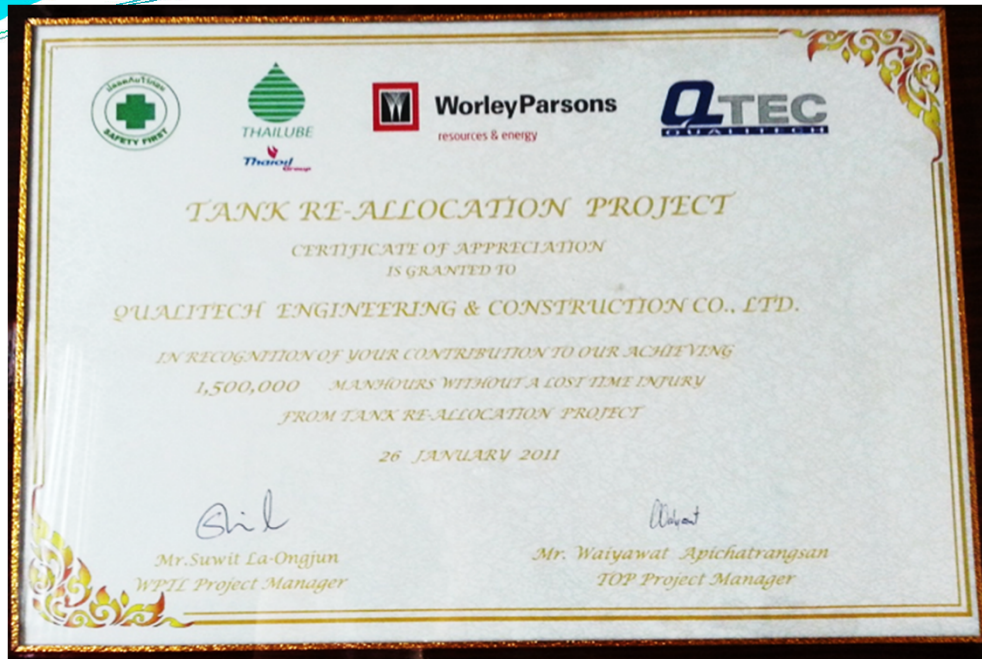


# Certificates & Safety Awards





# Certificates & Safety Awards





# Certificates & Safety Awards



## AWARD IN RECOGNITION FOR SAFETY

We, the Consortium of SKEC and GS E&C are pleased to award to

**Qualitech Engineering & Construction Co., Ltd.**

For Your Commitment and Contribution Towards Safety in Achieving  
6,000,000 Safe Man Hours on ATC# 2 Project

Date of achievement 17<sup>th</sup> February 2007

Reformer & Aromatics Complex II Project

Mr. S. I. Lee  
Construction Manager

Mr. H. R. Park  
Deputy Construction Manager



ALPAMS G3 Thailand would like to thank QUALITECH ENGINEERING & CONSTRUCTION CO., LTD. and all of their employees over the last Fourteen (14) months for their contribution and assistance in the completion of Alcan Gove Third Stage Expansion Project. Throughout this time QTEC have always displayed an exemplary approach towards safety and quality of service and this combined with their sense of professionalism has been nothing short of impressive.





QUALITECH

= THANK YOU =