



COMPANY PROFILE

QUALITECH ENGINEERING AND CONSTRUCTION CO., LTD.

589/149 DEBARATNA ROAD

BANGNA NUEA, BANGNA, BANGKOK 10260 THAILAND



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INTRODUCTION

In 1991, 6 individuals foresaw a potential growth in construction services within an industrial sector in the Kingdom of Thailand. **Qualitech Engineering and Construction Co., Ltd. (QTEC)** was established in 1991 to capture those potentials by providing professional construction services. The company began its operations with less than 30 employees and 5,000,000 Baht in registered capital. The company has developed its business as a construction contractor, specialize in: (1) Mechanical, (2) Mechanical and Electrical (M&E), (3) HVAC and utility systems, (4) Structure Steel and Civil works.

QTEC believes in the value of its human resources and their contribution toward the long term success of the company. We have recruited people of diverse background to address the advancement in technology and the complexity in today's construction. QTEC encourage continuous learning from its personnel and provide training as necessary for the staffs of all level. We persistently seek talented individuals to increase our pool of human capital.

Throughout years of experiences, QTEC has expanded its operation exponentially. QTEC has employed more than 350 experienced engineers and professionals, as well as its pool of registered capital to 150,000,000 Baht to satisfy the need of our clients. This achievement is the result of a strong management team with a diverse pool of staffs in each discipline, including financial support facilities secured through varied financial institutions:

-  KASIKORN BANK PUBLIC COMPANY LIMITED.
-  SIAM COMMERCIAL BANK PUBLIC COMPANY LIMITED.
-  BANK OF AYUDHYA PUBLIC COMPANY LIMITED.
-  CITIBANK THAILAND.

Since its establishment, the goal of QTEC is to acquire the highest customer satisfaction by providing a superior quality construction in safely and in timely manner at an affordable price. The company mission statement still remains as our quality complies with the international ISO 9001:2015 standards. QTEC fabrication shop is also certified ASME "U", "R", "S" and "NB" (National Board) to fabricate and services pressure parts for Heater, Boiler including piping spools. Since 2007, the company has maintained a minimum of 1,000,000 man-hours per project without a lost time accident.

The Government of Thailand recognized the contribution that QTEC has been providing since its establishment to the growth of the economy. QTEC's services have contributed dramatically to the industrial sectors related to: (1) Oil and Gas, (2) Petrochemical, (3) Power Plants and (4) Energy. Thus, the government granted the Board of Investment (BOI) privilege to QTEC since 2001, resulting in substantial tax benefits for the company.




Today, QTEC has become a leader as a construction contractor in the Kingdom of Thailand and began its growth internationally. We promise excellence in all aspects to our clients.

THE COMPANY PHILOSOPHY

Qualitech Engineering and Construction Co., Ltd. (QTEC) desires to build a mutual success among all concerns parties in all aspects of the products and services provided. Thus, the company is fully committed to our objective and value.

PARTNERSHIP

The spirit of partnership with our client shall be applied throughout the execution of the project. QTEC believes that it is essential to value our clients as “partners” rather than “individuals” throughout the entire project execution. Partnership with our clients mean:

-  Initiation of constructive contribution for mutual benefits
-  Minimization of any problems which may arise from conflicts of interests
-  Maximization of efficiency as a result of joint efforts among the management staffs

COMPETENCY

QTEC assures our clients that all personnel necessary to complete the assignment are the experts of their disciplines and shall be assigned. Competent personnel ensure that QTEC can deliver every steps of its obligation in accordance with the project design requirement with the highest quality and professionally.

QUALITY

All Qualitech personnel shall be motivated to follow the concept of Quality-in-Mind in addition to the application of the Quality Assurance and Quality Control Program following ISO 9001:2015

SAFETY

Alertness and attention to Safety and the provision to ensure it shall always be maintained in all areas and activities of each project. QTEC promises all concerned parties, including our employees, that accident shall be minimized during the execution of the projects and thereafter.

TIMELY MANNER

QTEC understands the needs for our client to have their project complete punctually. Under all normal circumstances, QTEC undertakes to complete its assignment promptly. All obligations shall proceed in a timely manner in accordance with the approved project master schedule.

CONTINUOUS IMPROVEMENT

QTEC believes that learning never stops. All QTEC human resources shall always be encouraged to continuously improve their skills with the full support from the company. We trust that as our staffs advance, our business grows and will mutually benefits the individuals, the company and ultimately our clients.

THE MANAGEMENT

Qualitech Engineering and Construction Co., Ltd. (QTEC) consists of the following individuals whose expertise and visions makes who we are today:

BORINAT OSOTHA



Borinat Osotha is the President and co-founder of **Qualitech Engineering and Construction Co., Ltd.** He oversees the overall operations of the company, including marketing campaigns, bid procedures and after-sale services to ensure the highest satisfaction from our clients. Furthermore, he coordinates with the global market to ensure the company's international emergence as well as a continual adaptation of the newest technology and international standard code.

Bernard is of French origin with over 20 years of experience in the Thai construction business and generally the Asian market. His long-term exposure within Thailand allows him to fully understand its components and effectively utilize abundant Thai human resources to meet the local and global requirements.

VIRAT ARAMRUENG



Virat Aramrueng is the Chairman and founder of **Qualitech Engineering and Construction Co., Ltd.** He oversees corporate policies, strategic decision, growth and management for all divisions to ensure the smooth operation. His responsibilities also include seeking new business opportunities as well as developing business relationship worldwide.

With more than 30 years of experience as mechanical engineer and over 20 years of experience involving with top-level management in a construction industry, he has a proven track record of his leadership, vision and the nature of the business.

Virat receives his B.S in Mechanical Engineering with Top-Level (3) Professional Engineering license in Thailand, Post Graduate Diploma in Property Valuation and MBA in Finance.

RANGSRI CHIMNOI



Rangsri Chimnoi is the Managing Director and co-founder of **Qualitech Engineering and Construction Co., Ltd.** He oversees the project proposal and execution of all mechanical constructions projects. His involvement as a management ranges from the inception of the project, including bid proposal and personnel management, upon project completion.

Rangsri has more than 20 years of experience in mechanical engineering as project estimator and more than 10 years of experience as a management in construction business focusing in project schedule and cost control.

TORSAK SORN-ARD



Torsak Sorn-Ard is the Deputy Managing Director and co-founder of **Qualitech Engineering and Construction Co., Ltd.** He oversees all operations of the Fabrication Shop. The Fabrication Shop covers the areas of 212,800 square meters to fabricate all type of steel works. He supervises the project managers and their teams for all construction projects to ensure the quality outputs with the highest safety standards.

Torsak has more than 20 years of experience in construction works. His profound skills in steel works, particularly in welding, fabrication and erection works, has made him a valuable asset for the company. Prior to his involvement in construction business, he served the Royal Thai Army as a lieutenant. His strong leadership and military discipline allows him to handle each project efficiently.

JIRAPORN SUNTORNTAM



Jiraporn Suntorntham is the Assistant Managing Director and co-founder of **Qualitech Engineering and Construction Co., Ltd.** She oversees all finance, accounting, management information system (MIS) and bank relationship for the company. Furthermore, she received specialize training in RPG Programming, NetWare Administration and Tax Planning for Construction seminars.

With over 20 years of experience as a financial professional and over 15 year of experience as financial manager within the construction industry, her skills and experience is a great match for the company. Her expertise in information system and finance allows her to integrate the latest accounting and financial software to enhance the company's operation. Jiraporn received her B.S in Accounting and master degree in Executive MBA program.

SOMKIAT KIJUMNUAYPORN



Somkiat Kijumnuayporn is the Managing Director of Qtec Engineering Co., Ltd. and one of the director of **Qualitech Engineering and Construction Co., Ltd.** He oversees all projects in Civil and M&E Works in the Medium Industry sector. He is also responsible for Marketing aspect. He supervises all project managers and their team to ensure the quality outputs with the highest standard.

Somkiat has received his Bachelor degree in Electrial & Instrument with Level 2 Professional Engineering license in Thailand. He also received the Master degree in Management.

Somkiat has more than 26 years of experience in Engineering and Construction Works providing one stop service to the customers for all projects.

REGISTRATION

Name	Qualitech Engineering and Construction Co., Ltd.
Address	589/149 Debaratna Road, Bangna nuea, Bangna, Bangkok 10260. THAILAND
Telephone	(66 2) 399 5720
Facsimile	(66 2) 399 5728-9
E-mail	qtec@qtec.co.th
Website	www.qtec.co.th
Registered Capital	Baht 150,000,000 (Paid up Full Amount)
Type of Business	Construction Services for Mechanical, Electrical and Civil Works

FABRICATION SHOP

Qualitech Engineering and Construction Co., Ltd. (QTEC) has Fabrication Shop located in the Rayong Province, in proximity of Map Ta Phut Industrial Estate, to provide Mechanical work related to all kinds of steel fabrication works to support QTEC's construction and satisfy any clients' needs.



RAYONG FACILITY (AREA)		
Total Area	212,800	m ²
Office	2,000	m ²
Warehouse	1,800	m ²
Fabrication Shop	15,000	m ²
Lay-Down Yard	183,300	m ²
Blast Shop and Paint	3,320	m ²
Others	7,380	m ²








RAYONG FACILITY (NUMBER OF SHOPS)		
Fabrication	10	Shop
Detail Part Shop	1	Shop
Blasting	2	Shop
Painting	1	Shop
Warehouse	2	Shop
Maintenance	1	Shop

Appendix A exhibits some of the works performed for the clients at the fabrication shop.




CONSTRUCTION SERVICES

Qualitech Engineering and Construction Co., Ltd. (QTEC) has diversified its business through its progressive expansion program. The increase in capacity and capability permits QTEC to broaden its construction service to the industry with a quality identical to the international standards.

TYPE OF SERVICES Qualitech Engineering and Construction Co., Ltd. (QTEC) provides but not limited to the following type of services:

-  Detailed Design Engineering
-  Project / Construction Management
-  Procurement
-  Fabrication
-  Construction
-  Renovation, Modification and Maintenance
-  Recruitment and Manpower Supply

AREA OF CONSTRUCTION Qualitech Engineering and Construction Co., Ltd. (QTEC) provides but not limited to the following area of construction:

-  **Civil:** Civil Works, Building Works, Structural Steel Works and Waste Water Treatment.
-  **Mechanical (Both On-Shore and Off-Shore areas):** Equipment Installation, Vessels, Tanks Fabrication and Erection, Steel Structures Fabrication and Erection, Piping Works and Pipelines Construction.
-  **Electrical & Instrumentation:**
 - **High Voltage Systems:** Aerial and underground cable, Sub-station networks.
 - **Low Voltage:** Power, Lighting and Lightning protection
 - **Communication Systems:** Telephone, Fire Alarm, Sound and Public Paging
 - **Control Systems:** Building Automation System, PLC wiring and programming, control panel
 - **Safety Systems:** Fire protection
 - **HVAC Systems:** Ventilation, Air Conditioning with control systems such as Energy Management System (EMS) or Building Automation System (BAS)
 - **Communication Works:** Tower Network Station and Satellite Station

INDUSTRY SECTORS Qualitech Engineering and Construction Co., Ltd. (QTEC) specializes but not limited to the following industry sectors:

-  Oil & Gas
-  Refinery
-  Petrochemical
-  Energy & Power Plants
-  Waste Water Treatment Plants
-  Environmental Project
-  Industrial Plants

SERVICE CAPACITY

With sufficient human resources availability, strong financial support and other support facilities, **Qualitech Engineering and Construction Co., Ltd. (QTEC)** is ready to target projects within, but not limited to the following range:

MECHANICAL WORK

Equipment Installation	15,000	Tons
Vessels and Tanks Fabrication and Erection	2,000	Tons
Steel Structures Fabrication and Erection	10,000	Tons
Piping Works	1,000,000	Di

CIVIL WORK

Concrete Works	15,000	m ³
Form Work	100,000	m ²
Rebar	1,500	Tons
Steel Structure	2,000	Tons
Road and Pavement	12,000	m ²
Roofing	30,000	m ²

ELECTRICAL AND INSTRUMENTATION

High Voltage	12 – 500	KV
Power Plants – Natural Gas, Bio Mass, Coal Fired	15 – 150	MW
Distribution and Control Panel	100	Chambers
SCADA / PLC / DCS	6,000 & Up	Loops

SCAFFOLDING EQUIPMENT OWNED BY QTEC (BS STANDARD)

NO.	DESCRIPTION	UNIT	QTY	Total Weight (Tons)
1	Tube	LM	200,000	650
2	Fitting	No	250,000	230
3	Steel Plank Boards	LM	90,000	310
4	Ladder Beam	LM	1,800	80
5	Alum. Ladder	LM	3,000	10

Total approximate 1200 Tons equivalent to Erectable volume of 100,000 m³

Remarks: Depending on project requirement, the erectable volume can be increased.

HUMAN RESOURCES

Qualitech Engineering and Construction Co., Ltd. (QTEC) believes that the key to the success in our business is the human capital. Therefore, we have prepared, in sufficient numbers, a well trained and competent staff in each discipline at all levels. QTEC personnel benefits from years of experience, both domestically and internationally, and is ready to manage and execute construction services in full conformity with International Standard requirement. QTEC strives to continuously improve its human resources to utilize the advancement of today's technology in construction services to achieve the highest satisfaction from our clients.

NUMBER OF THE CURRENT WORKFORCE

Management	7	Personnel
Project Managers and Engineers	66	Personnel
Construction Supervisors	76	Personnel
QC / Technicians / Draftsman	88	Personnel
Finance and Accounting Staff	15	Personnel
Procurement and Material Control Staff	36	Personnel
Other Administrative and Support Staff	80	Personnel

An average of 2,600 skilled workers is working in on-going projects annually. Number of skilled workers may increase up to 5,000 to meet the demand during the peak period.

MECHANICAL PROJECT REFERENCES

MOST RECENT PROJECT AND PROJECT IN PROGRESS

PROJECT IN PROGRESS BEGINNING 2015-2024						
PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
Steel Structure, Piping and Equipment Installation Work (Process Building 2) for Thai Ethoxylate I-CARE EPC Project	GC Maintenance and Engineering Company Limited	Oct	2023	Sep	2024	102
Recovery Heat from HA Column and Benzene Product Project & Sulfolane Improvement Project (405&406)	GC Maintenance and Engineering Company Limited (GC5)	May	2023	Aug	2023	19
Sakura Project (Mechanical Work)	GC Maintenance and Engineering Company Limited (AGC Vinythai)	May	2023	Nov	2024	477
MTP PG Expansion Project (Eagle)	DOW Chemical Thailand Limited	Feb	2023	Mar	2024	115
PTTLNG Nong Fab LNG & Fuel Gas Skid Fabrication Project	Sensia/ ITS/ SPCC/ PTTLNG	Nov	2021	Sep	2022	56
EAGLE Project (Structure Steel, Equipment Installation and Piping Work)	Purac (Thailand) Limited (Corbion)	Jul	2021	Mar	2024	972
PTTLNG Map Ta Phut Modification for Interconnecting Pipeline Project (MITCP)	PTTLNG Company Limited	Jul	2021	Dec	2022	305
OLEFINS 3 T/A 2021 at GC11 (Piping and Mechanical Package)	PTT Global Chemical Public Company Limited (GC)	Jan	2022	May	2022	20
Renew Dehydrogenation Reactor Project	IRPC Public Company Limited	Mar	2021	Aug	2021	27
HDPE Pilot Plant Modification Project (Civil & Structure Steel Work)	GC Maintenance and Engineering Co., Ltd. (GC 12)	Jan	2021	Jun	2021	17.5
MTP CT1 Site Demolition	ROHM and HAAS Chemical (Thailand) Ltd. (DOW Group)	Dec	2020	Jun	2021	34.5

PROJECT IN PROGRESS BEGINNING 2015-2024

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
MLGC (DOW)	Carbide Chemical (Thailand) Ltd. (DOW Group)	Jun	2020	Nov	2021	65
Thai Oil CFP (Piping Spool Fabrication)	Sinopec Engineering Group (Thailand) Co., Ltd.	Aug	2020	Oct	2021	80
Main Steel Structure Services(Top Side) for PTTEP Project	Thai Nippon Steel Engineering & Construction Corporation LTD.	Jan	2020	Sep	2021	144
PTTGC GC3 T/A 2020	PTT Global Chemical Public Company Limited (GC)	Dec	2019	Apr	2020	45
Mixed C4 GC7	GC Maintenance and Engineering Co., Ltd.	May	2019	Mar	2020	50
Dow Chemical Group Small Project	DOW Chemical Thailand Ltd.	Jan	2019	Dec	2019	52
Improving Refinery Energy Efficiency GC6 (Pinch Project)	PTT Global Chemical Public Company Limited (GC)	Apr	2019	Dec	2019	218
GC Oxyrane Propylene Oxide Project	Samsung Engineering(Thailand) Co., Ltd.	Aug	2018	Feb	2019	58.5
FCC Reliability Improvement Project	Star Petroleum Refining PCL.	Jun	2018	Jun	2019	103
NGD WHA # 4 Gas Pipeline & M/R Station	Gulf Energy Development Co., Ltd.	Jan	2018	May	2019	191
PACIFIC AIE RIGID POLYOL (CHANG) Project	DOW Chemical Thailand Limited	Jun	2017	Jul	2018	165
NGD WHA # 2 Gas Pipeline & M/R Station	Gulf Energy Development Co., Ltd.	May	2017	Mar	2019	151.5
LPG & NG Pipeline Project	Kabinburi Glass Industry Co., Ltd.	Feb	2017	Jul	2017	28
IRPC Turn Around 2016	IRPC Public Company Limited	Sep	2016	Jul	2017	155

PROJECT IN PROGRESS BEGINNING 2015-2024

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
UHV Unit 52 PRS MOV’s (IRPC)	GS Engineering & Construction Corporation	Oct	2016	Apr	2017	38
Bent Steel LACC EP Project (USA) and Upper F104 & F106 (RAPID)	CBI (Thailand) Ltd.	Sep	2016	Mar	2017	70
DPEX Project (TPE) Mechanical and Piping Works	ThyssenKrupp Industrial Solution (Thailand) Ltd.	Jun	2016	Feb	2017	347
THEP Project Mechanical and Piping Works	BASF Chemcat (Thailand) Limited	Jun	2016	Jun	2018	110
LCNG Station Project Civil, Piping, Mechanical and E&I Works	PTT Company Limited	Mar	2016	Jul	2016	50.8
SE Loading Station	Dow Chemical Thailand Ltd.	Sep	2015	Sep	2018	70
Thai MMA C-1400 Improvement Project	Thai MMA Co., Ltd. (SCG Group)	Jan	2015	Feb	2017	15.7
PPC & PPE Project (IRPC) Reactor Modification, Warehouse & U/G Piping Works	SINOPEC Engineering Group (Thailand) Co., Ltd.	Nov	2015	Jun	2016	28
ARDB Aromatic II (PTTGC) Piping Tie-in Work	PTT Maintenance and Engineering Co., Ltd.	Jul	2015	Oct	2015	21.5
Manpower Supply for IRPC UHV Plant	GS Engineering & Construction Corporation.	May	2015	Sep	2015	45
Gas Pipeline & Metering and Regulation Station	Bowin Clean Energy Limited	Feb	2015	Jan	2016	71.3
Mechanical Services to ESSO SRIRACHA REFINERY	Esso (Thailand) Public Company Limited	Mar	2015	Aug	2016	58
VGOHT Recovery (IRPC) Piping & Mechanical Work	IRPC Public Company Limited	Sep	2014	May	2015	325
Asiasal / Piping Work	Purac (Thailand) Ltd.	Aug	2014	Dec	2014	12

PAST EXPERIENCE AND GALLERY – MECHANICAL WORKS *

PROJECT EXPERIENCE FOR MECHANICAL						
PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
UHV Plant Project (IRPC) 72&73	SK Engineering & Construction Co., Ltd.	Jul	2014	Feb	2016	427
TOC GC EO/EG Expansion – II	Samsung Thai Engineering Co., Ltd.	Dec	2013	Jan	2016	188
Tanks Repair & Shutdown Work	Esso (Thailand) Public Company Limited.	May	2014	Jul	2014	15
Phenol Plant Train II	Posco Engineering (Thailand) Co., Ltd.	Apr	2014	Jan	2016	310
UHV Plant Project (IRPC)	GS E&C Corporation	Nov	2013	Aug	2014	137
PTT PHR – 3 (ESP)	Samsung Engineering Co., Ltd.	Mar	2013	Dec	2013	93
Bibiyana Expansion (Bangladesh) Module Work	Chevron Bangladesh Block Twelve, Ltd.	Nov	2012	Dec	2013	620
BV Project Offsite Area Package # 3 (PTTGC)	PTT Maintenance and Engineering Co., Ltd.	Nov	2012	Nov	2013	405
ZCT 1301 (Main Piping Work, Steel Structure & Equipment Installation)	Shinko Plantech (Thailand) Co., Ltd.	Jul	2012	Mar	2013	110
B.V. (PTTGC) D160B (Piping & Steel Structure Work)	Toyo-Thai Corporation PLC.	Jun	2012	Oct	2013	185
Rung Tawan	Toyo-Thai Corporation PLC.	May	2012	Mar	2013	155
EI & PSA-3 Project (Early Mechanical Work)	Thai Oil Public Company Limited.	Apr	2012	Dec	2013	551

PROJECT EXPERIENCE FOR MECHANICAL

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
HRSG-4001 Tube Replacement	Esso (Thailand) Public Company Limited.	Feb	2013	Mar	2013	9
1510 AMC 3 Map Ta Phut 3	Thai Industrial Gas Plc	Apr	2012	Aug	2012	32.3
Lumps Up-My Project (Malaysia)	Toyo-Thai Corporation PLC.	Apr	2012	Jun	2012	32
Thailand PV Film	DOW Chemical Thailand Ltd.	Feb	2012	Dec	2012	60
Anaerobic Treatment (Purac)	Purac (Thailand) Ltd.	Jan	2012	May	2012	65
TMP Project (Malaysia)	Shinko Plantech Co., Ltd.	Dec	2011	Mar	2012	48
EI & PSA-3 Project Demolition and Disinvestment Work	Thai Oil Public Company Limited.	Sep	2011	Dec	2011	32
NG Pipeline Installation for VDU & Hot Oil Heaters	Thai Lube Base Public Company	Jul	2011	Dec	2011	35.8
New TLB Product Tank (Mechanical and Pipe Supply and Installation Works)	Thai Lube Base Public Company Limited.	Jun	2011	Dec	2011	89
IRPC/GHU Technology Revamp (Structure, Piping & Equipment Installations Works)	IRPC Public Company Limited.	May	2011	Oct	2011	130
DBN3 (UBE) D-155 (Piping Works)	Toyo-Thai Corporation Public Co., Ltd.	Jun	2011	Dec	2011	65
Emerald Triangle / HP Relocation	Purac (Thailand) Ltd.	May	2011	Oct	2011	24.7
Gas Pipeline Metering & Regulating Station	Amata B.Grimm Power 3 Limited.	Feb	2011	Feb	2012	83
Sriracha Clean Fuels (Warehouse & General Site Services)	Foster Wheeler International Corporation (Thailand Branch)	Feb	2010	Dec	2011	47

PROJECT EXPERIENCE FOR MECHANICAL

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
Sriracha Clean Fuels (Mechanical Works 3, Piping Works)	Foster Wheeler International Corporation (Thailand Branch)	Mar	2011	Oct	2011	125.3
Windmill-ABT (Viny Thai)	Toyo-Thai Corporation Public Co., Ltd.	Dec	2010	Sep	2011	120
Purac Emerald (Mechanical Erection Works)	Purac (Thailand) Ltd.	Sep	2010	Jan	2011	20.5
Purac Emerald (Structure Steel Works)	Purac (Thailand) Ltd.	Jun	2010	Jan	2011	86
VDU & Hot Oil Heaters Modification and Reallocation Tank (Piping)	Thai Lube Base Public Co., Ltd.	Sep	2010	Jan	2011	122.5
TGTU 1 – ARU 2 (IRPC)	Uhde Shedden (Thailand) Ltd.	May	2010	Dec	2010	53
Open Drains Tank	CUEL Limited.	Jul	2009	Oct	2012	25
Karratha NRU Module Fabrication for PLUTO LNG Plant	Linde AG / Woodside	Jun	2008	Dec	2009	370
PTT Ethane Separation Plant (ESP) (Structure, Piping, and Mechanical)	Samsung Engineering (Thailand) Co., Ltd.	May	2008	Dec	2009	830
MOC Cracker Project	Samsung Engineering (Thailand) Co., Ltd.	Nov	2007	Oct	2009	222
RRC Upgrading Project (Mechanical & Piping Work)	SKEC (Thai)	Mar	2008	Dec	2008	240
The Ethanolamines (TEA) (Structure, Piping & Mechanical)	Thai Ethanolamine (PTT Chemical Group)	Mar	2008	Nov	2008	190
TOC EO/EG Expansion 1 Project (Mechanical Work)	Samsung Engineering (Thailand) Co., Ltd.	Sep	2007	Jun	2008	50
RRC Piping for New Diesel Tanks	SKEC (Thai)	Oct	2007	Apr	2008	35
ATC Reformer & Aromatic Complex II / Mechanical	SKEC (Thai)	Oct	2006	Feb	2008	149

PROJECT EXPERIENCE FOR MECHANICAL

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
C4175-EGTL Nigeria Non Modules Fabrication (Steel Structure)	Air Products Plc.	Apr	2007	Oct	2007	52
Vincent FPSO Project / Mechanical Work	Vetco Aibel	Sep	2006	Oct	2007	55
C4175-EGTL Nigeria Non Modules Fabrication (Piping)	Air Products Plc.	Mar	2007	Jul	2007	48
C4175 EGTL Nigeria Chevron Module Supply	Air Products PLC (UK)	Sep	2006	Jul	2007	220
TPX Revamp Project / Steel Structure Fabrication	Bechtel International, INC	Sep	2006	Jun	2007	120
QUIENTEN Project / Mechanical Work	PURAC	Nov	2006	May	2007	40
Motorcycle Tyre Production Plant	Siam Tyre Phra Pradaeng	Dec	2005	Feb	2007	90
ALCAN G3 (High Temperature Digester Plant) Mechanical Work	ALCAN	Apr	2006	Aug	2006	360
MIGP Air Separation Plant / Mechanical Work	Air Products / BIG	Jun	2005	Jun	2006	85
ALCAN G3 (Evaporator Plant) / Mechanical Work	ALCAN	Oct	2005	Apr	2006	120
Truck Tyre Factory Expansion / Mechanical Work	Michelin Siam (NKE)	Oct	2005	Apr	2006	33
TOC EO/EG Plant / Mechanical Works	Samsung Engineering Co., Ltd. / TOC	Oct	2004	Mar	2006	85
Third Transmission Pipeline / Steel Structure Work	Nacap / PTT	May	2005	Feb	2006	32
Tyre Steel Cord Factory Expansion 2004 (SSC 4)	Siam Steel Cord Co., Ltd.	Dec	2004	Jul	2005	80
Maptaphut Feeder Line Project	CH. Karnchang PCL / Thappline	Aug	2004	Oct	2005	60

PROJECT EXPERIENCE FOR MECHANICAL

PROJECT DESCRIPTION	CLIENTS	CONSTRUCTION PERIOD				PROJECT VALUE (MILLION BAHT)
		BEGIN		END		
		MONTH	YEAR	MONTH	YEAR	
Thailand Laem Chabang Expansion 2003 – 2004	Michelin Siam Co., Ltd.	Apr	2003	Apr	2005	80
Truck Tyre Factory Extension 2003	Siam Tyre Industrial Co., Ltd.	May	2003	Mar	2005	165
Blue Scope Steel Expansion	Dextra Industry / Stein Heurtey	Jun	2004	Feb	2005	50
PCL # 3 Plant	Rayong Engineering & Plant Service Co., Ltd.	Jun	2004	Jan	2005	80
TTM-Platform Fabrication for GSP-1 Songkhla	Samsung Engineering Co., Ltd. / TTM	May	2004	Dec	2004	18
TTM – Slug Cather and Receiving Facilities	CBI (Thailand) Co., Ltd.	Mar	2004	Aug	2004	16
NPCX Polyethylene Plant / Mechanical Work	Samsung Engineering Co., Ltd. / NPC	Feb	2003	Aug	2004	140
Nestle’s Plant Extension	Quality Coffee Product Co., Ltd. / Nestle	Sep	2002	Dec	2003	27
ASIAPET Continuous Polyester / Tanks, Silo and Piping Works	Electrowatt – Ekono (Thailand) Ltd.	Jan	2002	Apr	2003	62
Thailand Laem Chabang Extension Project	Michelin Siam Co., Ltd.	Nov	2000	Apr	2003	135
POPIT & HVPU Project	National Starch (Thailand) Co., Ltd.	Aug	2001	Jun	2002	122
National Power Supply / NPS / Lentjes / Ahlstrom	Kabinburi, Prachinburi	Sep	1998	Feb	1999	30

* List of mechanical projects with less than 10 million Baht in value is kept on file and is not shown in this company profile. The complete list is available upon requests to any interested parties

PTTLNG NONG FAB LNG & FUEL GAS SKID FABRICATION PROJECT

Piping Work	5,000	Di
Painting Work	2,000	m2
Steel Structure Work	65	Tons
Skid (4) Transport & Installation Work	218	Tons
E&I Work		
Project Schedule	Nov. 2021 – Sep. 2022	
Final Contract Amount	56,000,000	Baht



EAGLE PROJECT (STRUCTURE STEEL, EQUIPMENT INSTALLATION AND PIPING WORK)

Steel Structure Work	5,000	Tons
Piping Work	65,000	Di
Scaffolding Work	650,000	m3
Vessel Reactor Assembly (2 Unit)	380	Tons
Equipment Installation Work	500	Tons
Project Schedule	Jul. 2021 – Mar. 2024	
Contract Amount	972,000,000	Baht



EPCC FOR PTT LNG 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 Work		
Piping Work, Civil Work, Steel Structure Work and E&I Work		
Project Schedule	Jul. 2021 – Dec. 2022	
Final Contract Amount	305,000,000	Baht



IMPROVING REFINERY ENERGY EFFICIENCY GC6 (PINCH PROJECT)

Piping & Tie-in Work	37,300	Di
Steel Structure & Pipe Support	117	Tons
Equipment Installation Work		
Bored Piles & Civil Work		
Insulation Work		
Water Jet Cleaning		
Project Schedule	Apr. 2019 – Dec. 2019	
Final Contract Amount	218,000,000	Baht



**CHEVRON BANGLADESH BLOCK TWEEVE, LTD.
BIBIYANA EXPANSION (BANGLADESH)**

Piping Work	100,000	di
Structural Steel Work	1,500	tons
Equipment Installation	446	tons
Electrical & Instrumentation Work		
Final Contract Amount	620,000,000	Baht



**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

325,900,000 Baht



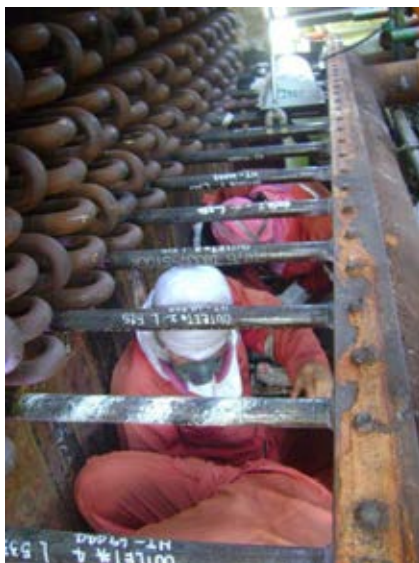
SAMSUNG ENGINEERING CO., LTD.
PTT PHR-3 (ESP)

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 Cleaning**



THAI OIL COMPANY LIMITED.
EI & PSA-3 PROJECT EARLY MECHANICALWORK

Piping Work	120,000	di
Structural Steel Work	2,200	tons
Project Schedule	Apr. 2012 – Dec. 2013	
Final Contract Amount	550,000,000	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		



**AMATA B.GRIMM POWER 3 PROJECT / PTT
U/G GAS PIPELINE Ø 10" x 1,000 m INCLUDING
MATERING & REGULATION STATION PROJECT (EPC)**



**THAI LUBE BASE PCL
VDU & HOT OIL HEATER MODIFICATION AND TANK REALLOCATION
(PIPING) PROJECT**

Piping Work	35,000	di
Steel Structure and Duct Work	320	tons
Equipment Installation	200	tons



SAMSUNG ENGINEERING MOC CRACKER PROJECT

Piping Work	248,000	di
Structural Steel Work	1,400	tons
Equipment Installation	4,965	tons



LINDE AG.
KARRATHA PLUTO LNG PLANT NRU MODULE PROJECT

Piping Work	35,000	di
Structural Steel Work	1,200	tons
Equipment Installation	300	tons
Electrical & Instrumentation Work		



SAMSUNG ENGINEERING
PTT ETHANE SEPARATION PLANT (ESP)

Piping Work	540,000	di
Pipe Support Work	80	tons
Structure Steel Work	6,000	tons
Equipment Installation	12,000	tons



ALCAN GOVE DEVELOPMENT PTY LIMITED.
ALCAN G3 (EVAPORATOR) PROJECT

Piping Work	120,000	di
Structure Steel Work	750	tons
Equipment Installation	1,400	tons



SKEC (THAI) LIMITED.
ATC REFORMER & AROMATIC COMPLEX II PROJECT

Piping Work	200,000	di
Equipment Installation	1,530	tons



**VETCO AIBEL LIMITED.
VINCENT FPSO PROJECT**

Piping Work	40,000	di
Steel Structure Work	800	tons
Equipment Installation	550	tons



**ALCAN GOVE DEVELOPMENT PTY LIMITED.
ALCAN G3 (HIGH TEMPERATURE DIGESTER PLANT) PROJECT**

Piping Work	120,000	di
Steel Structure Work	750	tons
Equipment Installation	1,400	tons



RECOGNITION



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) 355-8995, + (662) 399-9102
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 27th, 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:

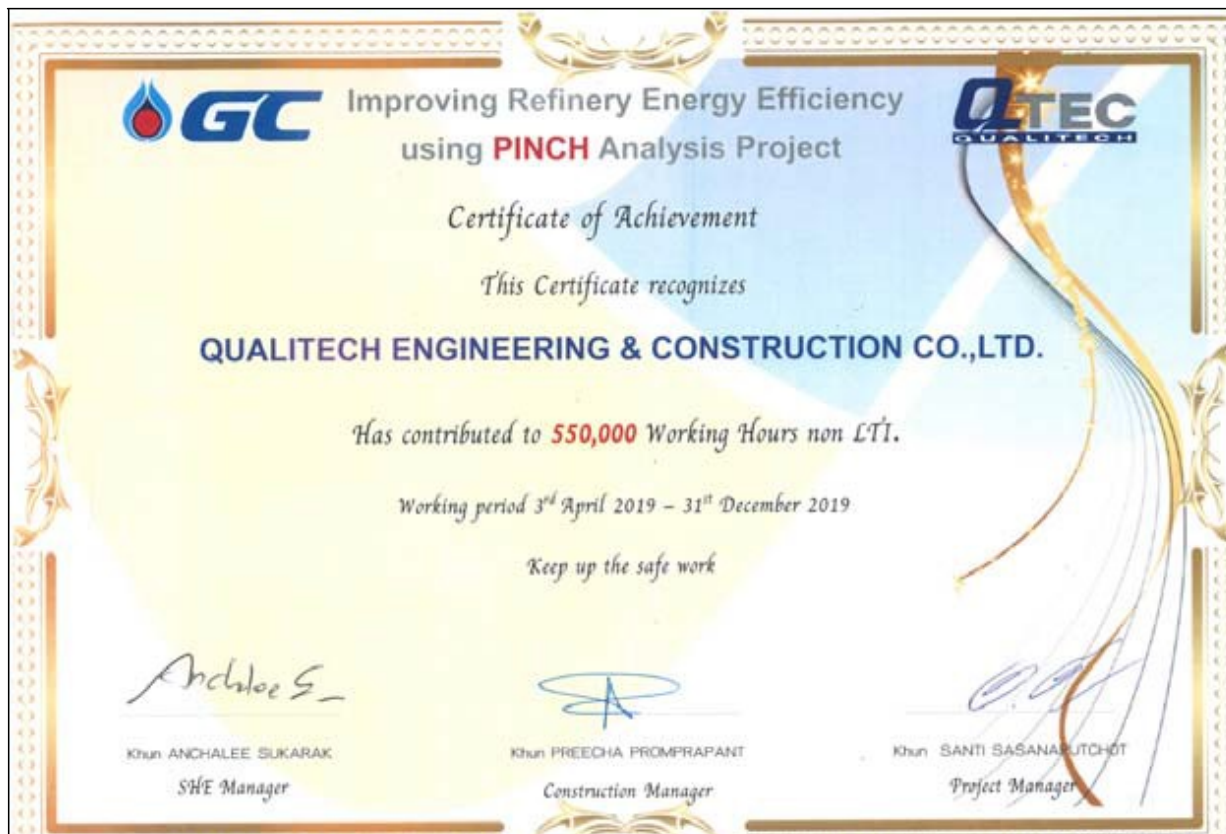
**Fabrication of Steel, Structure, Tank, Pressure Vessel,
Steel Plate Work, Piping Work.**

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







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 INTCHO)

**VACUUM GAS OIL HYDROTREATING RECOVERY
PROJECT MANAGER**

Issue Date : May 30, 2015



ประกาศเกียรติคุณ
ต้นโครงการ SAFE WHITE GREEN

มอบให้เพื่อแสดงว่า



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

ได้รับรางวัล บริษัทผู้รับเหมาที่จัดทำระบบ
การจัดการตามโครงการ SAFE WHITE GREEN

ในงาน 2014 TOP Group QSHE Day
เมื่อวันที่ 12 พฤศจิกายน 2557

นายอริคม เต็มศิริ

ประธานเจ้าหน้าที่บริหารและกรรมการผู้จัดการใหญ่
บริษัท ไทยออยล์ จำกัด (มหาชน)



EI & PSA-3 Project

Certificate of Recognition



*Special Recognition of Achieving Contractor's Target Milestone of
1,000,000 Safe Man-hours*



Sakchai Chuchuenmanakit
FW Construction Manager

Pasakorn Soonthornchai
Thai Oil Project Manager















ALPAMS G3 Thailand would like to thank QUALITEC 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.



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 17th February 2007

Reformer & Aromatics Complex II Project

Mr. S. I. Lee
Construction Manager

Mr. H. R. Park
Deputy Construction Manager



ACCESS MAP

HEAD OFFICE



FABRICATION SHOP



APPENDIX A: FABRICATION WORKS

AIR PRODUCTS PLC
ESCRAVOS GAST TO LIQUID (EGTL)
NIGERIA / CHEVRON SMALL MODULE SUPPLY

Steel Structure, Plate Work, Piping, E& I Work

200 tons



AIR PRODUCTS PLC
PIPING FABRICATION FOR EGTL NIGERIA

Piping Fabrication Work

40,000

di



AIR PRODUCTS PLC
STRUCTURE FABRICATION FOR EGTL NIGERIA

Steel Structure Work

650

tons



APPENDIX B: SCAFFOLDING WORKS

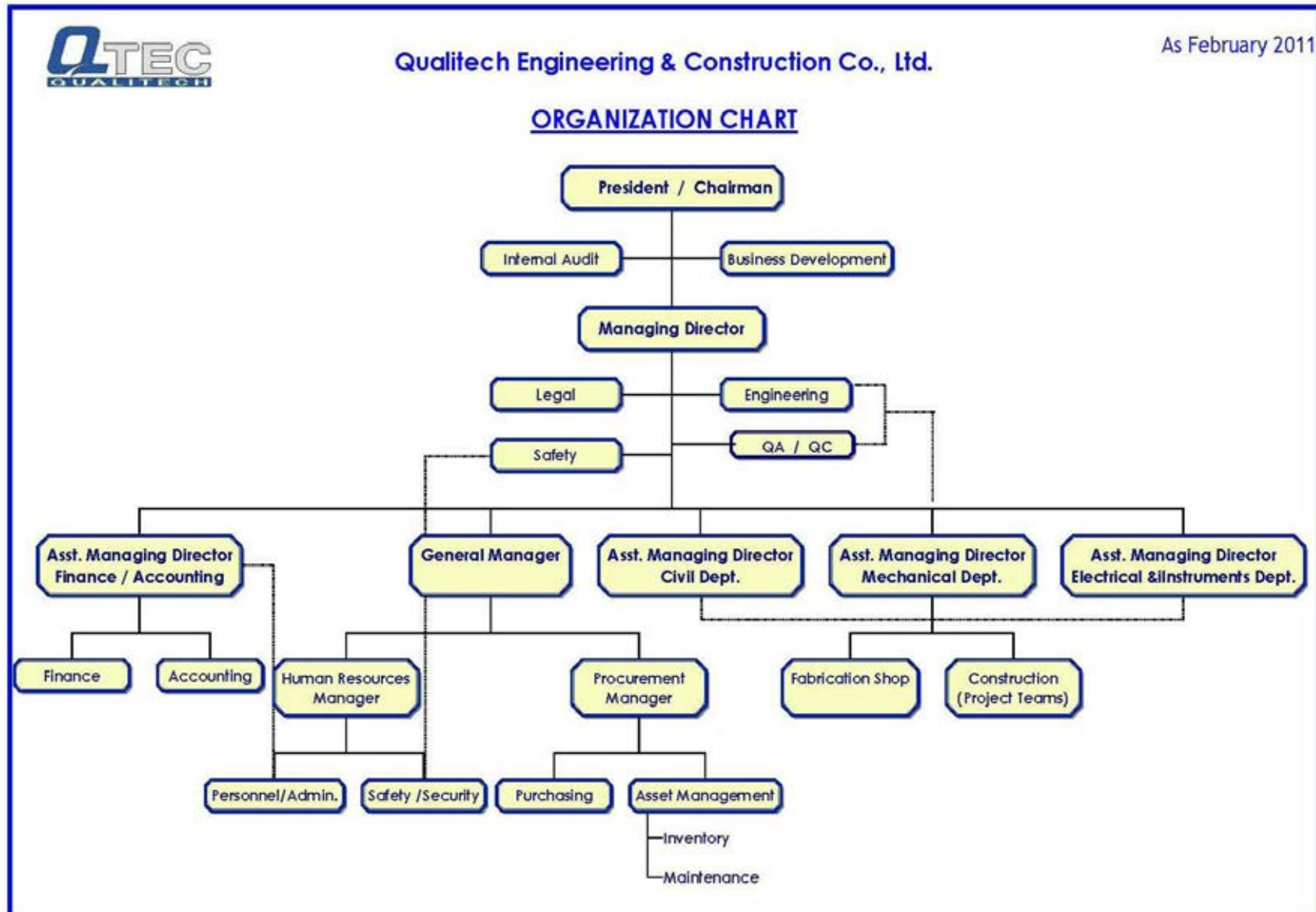
EAGLE PROJECT PURAC (THAILAND) LIMITED (CORBION)

Scaffolding work
Project Schedule
Value

Approx: 300,000 Cu.mtr
Jul 2021- Feb 2022
Approx: 45,000,000 THB



APPENDIX C: ORGANIZATION CHART



QUALITECH ENGINEERING & CONSTRUCTION CO., LTD.
589/149 Debaratna Road, Bangna nuea, Bangna, Bangkok 10260 THAILAND
TEL: 66(0) 2399 5720 FAX: 66(0) 2399 5728-9
E-mail: qtec@qtec.co.th
Website: <http://www.qtec.co.th>
Update as of Nov 2023