



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.**
- **TMBTHANACHART BANK PUBLIC COMPANY LIMITED.**
- **BANGKOK BANK PUBLIC COMPANY LIMITED.**

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. 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.

OUALITY

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.

JIRAPORN SUNTORNTHAM



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.

PITAN MAIPRASERT



Pitan Maiprasert serves as Assistant Managing Director of Qualitech Engineering and Construction Co., Ltd., where he oversees project construction operations and work closely with the General Manager, Komkrit Srimongkol who manages the company's fabrication facility. Together, they coordinate the comprehensive steel works production at the expansive 212,800 square meter fabrication facility for diverse industrial applications.

With over 30 years of comprehensive experience in the construction industry, Pitan brings a proven track record spanning petroleum refineries, petrochemical plants, pharmaceutical facilities, power plants, and building construction projects. His specialized expertise encompasses mechanical works, particularly in piping systems, steel structures, equipment installation, and EPC (Engineering, Procurement, and Construction) projects, as well as complex plant shutdowns and turnaround operations.

Pitan holds a Bachelor's Degree in Mechanical Engineering from King Mongkut's Institute of Technology. His combination of strong leadership capabilities, technical proficiency, and strategic insight consistently drives the company's growth while ensuring exceptional client satisfaction and the delivery of high-standard, safety, and timely project outcomes.

KOMKRIT SRIMONGKOL



Komkrit Srimongkol is the General Manager of Qualitech Engineering and Construction Co., Ltd. He is responsible for the overall management of the Fabrication Shop and provides comprehensive supervision and support to all project operations. With over 25 years of hands-on experience in infrastructure, industrial, and building construction, he plays a pivotal role in driving operational efficiency and ensuring the successful execution of projects.

Komkrit has established a solid background in civil engineering and has successfully led numerous public and private sector projects across Thailand including, but not limited to, road improvement, substations, tunnels, buildings, warehouses, and power plants. His diverse project portfolio demonstrates his versatility and deep understanding of complex construction challenges.

He is a licensed Professional Civil Engineer (Level II No. Sor Yor. 13636), registered with the Council of Engineering Institute of Thailand and also holds a License to practice as an Executive-level professional in plumbing installation (No. Bor Wor. 1526). His technical qualifications, extensive experience, and strong management capabilities continue to make him an invaluable asset to the organization.

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, Civil and E&I 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	219,000	m^2		
Office	2,000	m^2		
Warehouse	8,000	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	1	Shop			
Painting	1	Shop			
Warehouse	4	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	320,000	1,200
2	Fitting	No	330,000	325
3	Steel Plank Boards	LM	220,000	780
4	Ladder Beam	LM	2,600	115
5	Alum. Ladder	LM	4,300	15

Total approximate 2,400 Tons equivalent to Erectable volume of 200,000 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	71	Personnel
Construction Supervisors	120	Personnel
QC / Technicians / Draftsman	150	Personnel
Finance and Accounting Staff	20	Personnel
Procurement and Material Control Staff	36	Personnel
Other Administrative and Support Staff	96	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 2017-2026						
		C	CONSTRUCTION PERIOD			PROJECT
PROJECT DESCRIPTION	CLIENTS	BEG	GIN	EN	ND	VALUE (MILLION
		MONTH	YEAR	MONTH	YEAR	BAHT)
Clean Fuel Project for Main Pipe Rack (SMP Work)	Thai Oil Public Company Limited	Sep	2025	Nov	2026	2,200
Steel Structure of BUN3 Phase 1F Project	Thai Nippon Steel Engineering & Construction Corporation LTD./PTTEP	Apr	2025	Mar	2026	107
Provision EPCI for Bualuang Phase 5 Produced Water Debottlenecking (MEDCO5 Project)	Thai Nippon Steel Engineering & Construction Corporation LTD./MEDCO	Mar	2025	Sep	2025	20
Steel Structure of BUN3 Phase 1E Project	Thai Nippon Steel Engineering & Construction Corporation LTD./PTTEP	Jun	2024	Jun	2025	105
Steel Structure, Piping and Equipment Installation Work (Process Building 2) for Thai Ethoxylate I-CARE EPC Project	GC Maintenance and Engineering Company Limited/TEX	Oct	2023	Dec	2024	118
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	Mar	2025	608
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

PROJECT IN PROGRESS BEGINNING 2017-2026							
	CONSTRUCTION PERIOD				CONSTRUCTION PERIOD		
PROJECT DESCRIPTION	CLIENTS	BEG	GIN	END		VALUE (MILLION	
DETERMINE TO DISCOURSE OF THE PARTY OF THE P		MONTH	YEAR	MONTH	YEAR	BAHT)	
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	
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./Thai Oil	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	

PROJECT IN PROGRESS BEGINNING 2017-2026						
		CONSTRUCTION PERIOD				PROJECT
PROJECT DESCRIPTION	CLIENTS	BEG	GIN	END		VALUE (MILLION
		MONTH	YEAR	MONTH	YEAR	BAHT)
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
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

PAST EXPERIENCE AND GALLERY - MECHANICAL WORKS *

		C	ONICTRICT	CION DEDIO	D	PROJECT
PROJECT DESCRIPTION	CLIENTS	BEGIN		FION PERIOD END		VALUE
PROJECT DESCRIPTION	CLIENTS	MONTH YEAR		MONTH YEAR		(MILLION BAHT)
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
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

		C	ONSTRUCT	TION PERIO	D	PROJECT
PROJECT DESCRIPTION	CLIENTS	BEG	GIN	EN	ND	VALUE (MILLION
		MONTH	YEAR	MONTH	YEAR	BAHT)
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
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

		C	ONSTRUCT	TION PERIO	D	PROJECT
PROJECT DESCRIPTION	CLIENTS	BEG	GIN	EN	1D	VALUE (MILLION
		MONTH	YEAR	MONTH	YEAR	BAHT)
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
ESSO Sriracha Clean Fuels (Warehouse & General Site Services)	Foster Wheeler International Corporation (Thailand Branch)	Feb	2010	Dec	2011	47
ESSO 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

		CONSTRUCTION PERIOD				PROJECT
PROJECT DESCRIPTION	CLIENTS	BEGIN		END		VALUE (MILLION
		MONTH	YEAR	MONTH	YEAR	BAHT)
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
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

PROJECT EXPERIENCE FOR MECHANICAL **PROJECT CONSTRUCTION PERIOD** VALUE **BEGIN END** PROJECT DESCRIPTION **CLIENTS** (MILLION MONTH YEAR MONTH BAHT) YEAR Samsung Engineering Co., Ltd. / TOC 2004 2006 85 TOC EO/EG Plant / Mechanical Works Oct Mar Third Transmission Pipeline / Steel Structure Nacap / PTT 2005 2006 Mav Feb 32 Work Tyre Steel Cord Factory Expansion 2004 Siam Steel Cord Co., Ltd. 2004 2005 80 Dec Ju1 (SSC 4) Maptaphut Feeder Line Project CH. Karnchang PCL / Thappline 2004 2005 Aug Oct 60 Thailand Laem Chabang Expansion 2003 – Michelin Siam Co., Ltd. 2003 2005 80 Apr Apr 2004 Truck Tyre Factory Extension 2003 Siam Tyre Industrial Co., Ltd. 2003 2005 165 Mar May Blue Scope Steel Expansion Dextra Industry / Stein Heurtey 2004 2005 **50** Jun Feb Rayong Engineering & Plant Service PCL # 3 Plant 2004 2005 80 Jun Jan Co., Ltd. Samsung Engineering Co., Ltd. / TTM TTM-Platform Fabrication for GSP-1 Songkhla May 2004 2004 Dec 18 TTM – Slug Cather and Receiving Facilities CBI (Thailand) Co., Ltd. 2004 2004 16 Mar Aug NPCX Polyethylene Plant / Mechanical Work Samsung Engineering Co., Ltd. / NPC Feb 2003 2004 140 Aug Nestle's Plant Extension Quality Coffee Product Co., Ltd. /Nestle 2002 2003 27 Sep Dec ASIAPET Continuous Polyester / Tanks, Silo Electrowatt – Ekono (Thailand) Ltd. 2002 2003 Jan 62 Apr and Piping Works Thailand Laem Chabang Extension Project Michelin Siam Co., Ltd. Nov 2000 2003 135 Apr POPIT & HVPU Project 2002 National Starch (Thailand) Co., Ltd. 2001 Aug Jun 122

^{*} 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.

STEEL STRUCTURE, PIPING AND EQUIPMENT INSTALLATION WORK (PROCESS BUILDING 2) FOR THAI ETHOXYLATE I-CARE EPC PROJECT

Steel Structure Work	240	Tons	
Piping Work	25,000	Di	
Equipment Installation	120	Tons	
Scaffolding Work	30,000	m3	
Painting	5,000	m2	
Insulation Work	1	Lot	
Piping Tie-in Work			
Project Schedule	Oct. 2023 - Dec. 2024		

Toject Schedule	OCG EUES - DCG EUET			
Final Contract Amount	118,000,000	Baht		









SAKURA PROJECT (MECHANICAL WORK)

Steel Structure Work	1,800	Tons
Piping Work	66,000	Di
Scaffolding Work	400,000	m3
Equipment Installation Work	1	Lot
Insulation Work	1	Lot
Project Schedule	May 2023 – Mai	. 2025
Final Contract Amount	608,000,000	Baht













PTTLNG NONG FAB LNG & FUEL GAS SKID FABRICATION PROJECT

Piping Work5,000DiPainting Work2,000m2Steel Structure Work65TonsSkid (4) Transport & Installation Work218Tons

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. 2	024
Contract Amount	972,000,000	Baht









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 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
Steel Structure & Pipe Support
Equipment Installation Work
Bored Piles & Civil Work
Insulation Work
Water Jet Cleaning
Project Schedule
Final Contract Amount

37,300 Di 117 Tons

Apr. 2019 – Dec. 2019 218,000,000 Baht









IRPC PUBLIC COMPANY LIMITED. VGOHT RECOVERY PROJECT

Demolish Work (Civil, Steel Structure, Piping, Equipment and Insulation Work)
Steel Structure Work 600 Tons
Equipment Installation Work 350 Tons
Piping Work 40,000 Di
Project Schedule Sep. 2014 – May 2015
Final Contract Amount 325,900,000 Baht

<u>BEFORE</u>







AFTER







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

Piping Work	14,500	Di
Equipment Installation Work	1,400	Tons
Piping Tie-in	1	Lot
Project Schedule	Mar. 2013 – De	c. 2013
Final Contract Amount	93,000,000	Baht













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

Project Schedule Nov. 2012 – Dec. 2013 Final Contract Amount 620,000,000 Ba



PTT MAINTENANCE AND ENGINEERING CO., LTD. BV PROJECT OFFSITE AREA PACKAGE # 3 (PTTGC)

Civil Work including Engineering, Piping Work

Steel Structure and Equipment Installation Work

Tanks and Pressure Vessels Work

Project Schedule

Nov. 2012 – Nov. 2013

Final Contract Amount

405,000,000

Baht













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

Piping Work120,000DiStructural Steel Work2,200TonsProject ScheduleApr. 2012 – Dec. 2013

Final Contract Amount 551,000,000 Baht











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

Project Schedule Final Contract Amount

Feb. 2011 – Feb. 2012 83,000,000 Baht













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

Piping Work35,000DiSteel Structure and Duct Work320TonsEquipment Installation200Tons

Project Schedule Sep. 2010 –Jan. 2011

Final Contract Amount 122,500,000 Baht









LINDE AG.

KARRATHA PLUTO LNG PLANT NRU MODULE PROJECT

Piping Work35,000DiStructural Steel Work1,200TonsEquipment Installation300Tons

Electrical & Instrumentation Work

Project Schedule Jun. 2008 – Dec. 2009

Final Contract Amount 370,000,000 Baht



SAMSUNG ENGINEERING PTT ETHANE SEPARATION PLANT (ESP)

Piping Work540,000DiPipe Support Work80TonsStructure Steel Work6,000TonsEquipment Installation12,000Tons

Project Schedule May 2008 – Dec. 2009

Final Contract Amount 830,000,000 Baht







SAMSUNG ENINEERING MOC CRACKER PROJECT

Piping Work248,000DiStructural Steel Work1,400TonsEquipment Installation4,965Tons

Project Schedule Nov. 2007 – Oct.2009

Final Contract Amount 222,000,000 Baht







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

Piping Work200,000DiEquipment Installation1,530Tons

Project Schedule Oct. 2006 – Feb. 2008

Final Contract Amount 149,000,000 Baht













VETCO AIBEL LIMITED. VINCENT FPSO PROJECT

Piping Work40,000DiSteel Structure Work800TonsEquipment Installation550Tons

Project Schedule Sep. 2006 – Oct.2007

Final Contract Amount 55,000,000 Baht













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

Piping Work120,000DiStructure Steel Work750TonsEquipment Installation1,400Tons

Project Schedule Oct. 2005 – Apr. 2006

Final Contract Amount 120,000,000 Baht













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

Piping Work120,000DiSteel Structure Work750TonsEquipment Installation1,400Tons

Project Schedule Apr. 2006 – Aug. 2006

Final Contract Amount 360,000,000 Baht













RECOGNITION



Certificate Number

12725

Date First Registered

28/03/2022

Date Certificate Issued

28/03/2025

Date Certificate Expires

28/03/2028

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.

Head Office: 589/149 27th Floor, Central City Tower, Debaratna Road, Bangna nuea, Bangna, Bangkok 10260 Thailand Factory: 10/9 Soi Kee Ree, Sukhumvit Road, T. Huaypong, A. Muang, Rayong 21150 Thailand

> 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.



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

การรับรองเลขที่ : GI(E) 2-1808/2568



ใบรับรองฉบับนี้ให้ไว้กับ บริษัท ควอลิเทค เอ็นจิเนียริ่ง แอนด์ คอนสตรัคชั่น จำกัด

ที่ตั้งสถานประกอบการ : เลขที่ 10/9 ซอยคีรี ถนนสุขุมวิท ตำบลห้วยโป่ง อำเภอเมืองระยอง จังหวัดระยอง 21000

เพื่อรับรองว่าเป็น

อุตสาหกรรมสีเขียวระดับที่ 2

ปฏิบัติการสีเขียว (Green Activity)

การดำเนินกิจกรรมเพื่อลดผลกระทบต่อสิ่งแวดล้อมได้สำเร็จตามความมุ่งมั่นที่ตั้งไว้

ออกให้ ณ วันที่ : 28 สิงหาคม 2568 มีผลถึง วันที่ : 27 สิงหาคม 2571 เลขประจำตัวผู้เสียภาษี : 0105534019521 เลขทะเบียบโรงงาน : 20210400225463



การรับรองเลขที่ : GI(E) 2-992/2568



ใบรับรองฉบับนี้ให้ไว้กับ

บริษัท ควอลิเทค เอ็นจิเนียริ่ง แอนด์ คอนสตรัคชั่น จำกัด

ที่ตั้งสถานประกอบการ : เลขที่ 4/44 ถนนสุขุมวิท ตำบลห้วยโป่ง อำเภอเมืองระยอง จังหวัดระยอง 21150

เพื่อรับรองว่าเป็น

อุตสาหกรรมสีเขียวระดับที่ 2

ปฏิบัติการสีเขียว (Green Activity)

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ออกให้ ณ วันที่ : 31 มีนาคม 2568 มีผลถึง วันที่ : 30 มีนาคม 2571 เลขประจำตัวผู้เสียภาษี : 3520800411587 เลขทะเบียนโรงงาน : 10210000925522













VGOHT 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

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

the new column and Vessels

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

Page 1 of 2

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 precommissioning/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

Page 2 of 2

















ประกาศเกียรติคุณ ฉบับนี้เพื่อแสดงว่า

บริษัท ควอลิเทค เอ็นจิเนี้ยริ่ง แอนด์ คอนสตรัคชั่น จำกัด ได้รับรางวัลชนะเลิศ การแข่งขัน "การติดตั้งนั่งร้านมาตรฐาน B.S." งานสัปดาห์ความปลอดภัยในการทำงานจังหวัดระยอง ให้ไว้ ณ วันที่ ๙ พฤษภาคม พ.ศ. ๒๕๕๖

> (นายวชิระ ศรีบัวชุม) สวัสดิการและคุ้มครองแรงงานจังหวัดระยอง





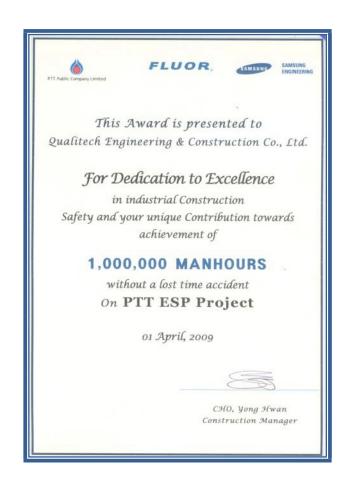


















2007 02, 17,

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 Il Project

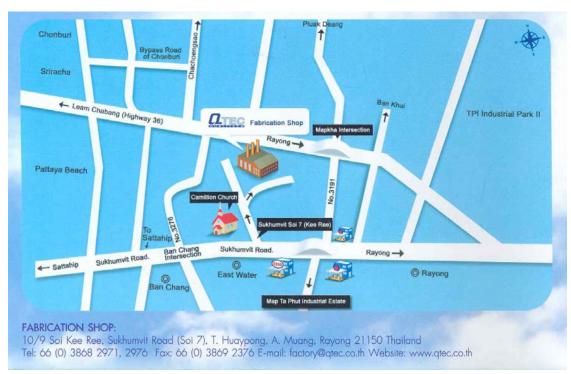
Mr. S. I. Lee Construction Manager Mr. H. R. Park Deputy Construction Manager

ACCESS MAP

HEAD OFFICE



FABRICATION SHOP



APPENDIX A: FABRICATION WORKS

THAI NIPPON STEEL ENGINEERING & CONSTRCUTION CORPORATION LTD.















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





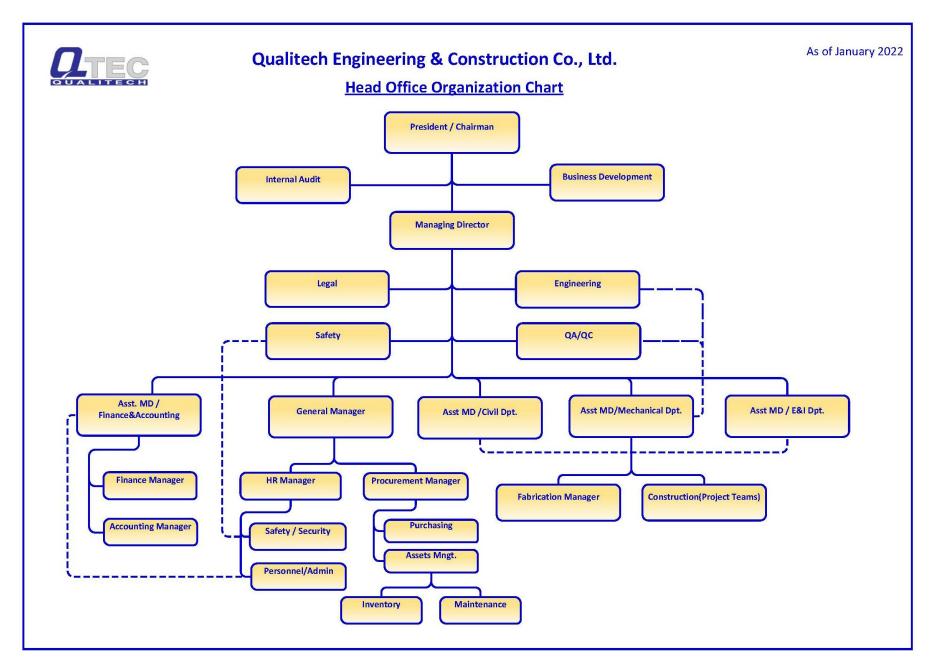








APPENDIX C: ORGANIZATION CHART



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: gtec@gtec.co.th
Website: http://www.qtec.co.th

Update as of October 2025