

A decorative graphic on the left side of the page consists of a thin blue line that forms a series of connected shapes: a large circle at the top, a smaller circle below it, and a larger circle at the bottom. A vertical line extends from the top circle down to a small yellow circle, which is connected to the middle circle. The bottom circle is partially enclosed by a hexagonal shape.

ROTARY

Smart thinking. Safe hands.



Till date, Rotary has built more than 60% of independent storage tanks in Singapore.



Our Track Record

Terminals/Depot

Client	Project Title	Year of Completion
United Arab Emirates, Fujairah		
Fujairah Oil Terminal FZC	Fujairah Oil Terminal	2014
Thailand		
PTT LNG Company Limited	LNG Receiving Terminal Expansion - Phase II	2017 (Ongoing)
PTT Tank Terminal Company Limited	Ammonia Storage Tank and Facilities	2011
Singapore		
Oiltanking Helios Singapore Private Limited	TF5 Propylene Bullet Tank Storage & Its Related Facilities	2018 (Ongoing)
Singapore LNG Corporation	SLNG Phase 3 Expansion Project for Piping & Mechanical	2017 (Ongoing)
Singapore Lube Park Pte Ltd	Lube Park Shared Facility – EPC Package A	2015
Tankstore Limited	Phase 6 Storage Tanks Development	2016
Oiltanking Odfjell Singapore Ltd	EPC 3 nos. of Spherical Tanks	2014
Oiltanking Odfjell Terminal Pte Ltd	Chem 6, 12" Stainless Steel MEG Jetty Line to MJ10 Project Related Facilities	2009
Oiltanking Singapore Ltd	Oiltanking Phase 10 Expansion	2009
Oiltanking Odfjell Singapore Ltd	Chem 5, PO Tanks and Chem 4 Tank Conversion Project	2008
Universal Terminal Pte Ltd	Crude and Petroleum Storage & its Related Services	2007



Our Track Record

Terminals/Depot		
Client	Project Title	Year of Completion
Indonesia		
PT Oiltanking Merak	Tank Terminal & Jetty Topsides at Merak (West Java) Indonesia	2009
China		
Vopak Shanghai Logistics Co.	Multi Product Terminal	2006
Vopak Ethylene Tianjin Terminal Co. Ltd.	Vopak Ethylene Tianjin Terminal	2005

Fujairah Oil Terminal, Fujairah, UAE



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Fujairah Oil Terminal
Client	Concord Energy Pte Ltd
Main Contractor	Rotary Engineering Fujairah FZE
Date of Commencement	Nov 2012
Date of Completion	Dec 2014

Fujairah Oil Terminal, Fujairah, UAE

Project Description

- Total Storage Capacity of 1.15 million cbm
- Product Storage Tanks 34 nos, Slop Tanks 2 nos, Utilities Tanks 4 nos
- Product Jetty Pipelines
- Buildings (Administration Building, Substation etc)



LNG Receiving Terminal Expansion - Phase II, Rayong, Thailand (on-going)



Project Description

- 2 Nos. of 160,000 cbm LNG Storage Tanks full containment at -175 Degrees Celsius)
- Double wall tank – reinforced concrete outer wall, 9% Ni Carbon Steel inner wall

SCOPE OF WORK

Construction of double wall tank



Project Title	LNG Receiving Terminal Expansion Project-Phase II
Client	PTTLNG Company Limited
Main Contractor	IHI Corporation, Japan
Date of Commencement	Jul 2014
Date of Completion	Mar 2017 (Ongoing)

Ammonia Storage Tank and Facilities, Rayong, Thailand



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Ammonia Storage Tank and Facilities Project
Client	PTT Tank Terminal Co. Ltd.
Main Contractor	REL-TREL Joint Venture
Date of Commencement	Oct 2009
Date of Completion	Feb 2011

Ammonia Storage Tank and Facilities, Rayong, Thailand

Project Description

- Total storage facility of 50,000 cbm
- Double wall tank (full containment) for liquid Ammonia (-34 degree celsius) including BOG
- Detailed engineering work for tankage, civil, equipment sizing, piping, electrical & instrumentation
- Equipped with compressor unit, LP ground flare unit, marine loading arm, top side facilities of jetty and fire fighting facilities



Oiltanking TF5 Propylene Bullet Tank Storage & Its Related Facilities, Jurong Island, Singapore



Project Description

- EPC of 2 nos. of mounded bullet tanks - with 2800m3 capacity each and its associated piping, equipment, electrical & instrumentation systems
- Construction of 1 no. of 4" feed line from Helios Terminal to end user

SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Tankage
2. Piping & Structures
3. Equipment Installation
4. Electrical & Instrumentation

Project Title	TF5 Propylene Bullet Tank Storage and Its Related Facilities
Client	Oiltanking Helios Singapore Private Limited
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Jan 2017
Date of Completion	Dec 2018 (Ongoing)

SLNG Phase 3 Expansion Project for Piping & Mechanical, Jurong Island, Singapore



Project Description

- 151,000 DB for shop & field piping installation
- 88 units (711 Tons) of equipment installation
- 80% of the piping job is in brown field

SCOPE OF WORK

Construction:

1. Piping & Structures
2. Equipment Installation

Project Title	Singapore LNG Terminal – Phase 3 Expansion Project for Piping & Mechanical Works
Client	Singapore LNG Corporation
Main Contractor	Samsung C&T
Date of Commencement	Dec 2015
Date of Completion	Dec 2017 (Ongoing)

Singapore Lube Park Pte Ltd, Lube Park Shared Facility – EPC Package A



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Lube Park Shared Facility – EPC Package A
Client	Singapore Lube Park Pte Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Jul 2013
Date of Completion	Feb 2016

Singapore Lube Park Pte Ltd, Lube Park Shared Facility – EPC Package A



Project Description

- 158,640 cbm product storage capacity
- 77 storage tanks for base oil / finished product / additive
- 1 marine jetty (2 vessel berths + 2 barge berths) topside works
- Common facilities & utilities, including electrical & instrumentation works



PB Tankers Limited, Phase 6 Storage Tanks Development, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Phase 6 Storage Tanks Development
Client	PB Tankers Limited
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Feb 2013
Date of Completion	Dec 2016

PB Tankers Limited, Phase 6 Storage Tanks Development, Singapore

Project Description

- Total storage capacity - 790,000 cbm
- Product - Black Product (Fuel Oil, Low Sulphur Fuel Oil), White Product (Mogas, Diesel, Kerosene)
- Total of 14 Black Product Tanks for Shell, 4 Black Product Tanks for Tankstore, 6 White Product Tanks
- Construction of 4 tank pits for Black Product, 1 tank pit for White Product, 1 Pump Station and Valve Manifold and Jetty Top-side works for Extension of Current Jetty 6 to 2 new Jetties (Jetty 6A / 6B)
- Detailed engineering work for Tankage, Civil & Structure, Mechanical Equipment, Piping, Electrical & Instrumentation
- Procurement of tank farm equipment such as steel plates, piping materials, pumps, knock out drum, marine loading arm, hot oil heater, chemical dosing unit, side entry mixers, corrugated plate interceptor, electrical cables, field instruments, tubing, fire fighting equipment, new panels, tank gauging system, metering skid



Oiltanking Odfjell Spherical Tanks, Jurong Island, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	EPC 3 nos. of Spherical Tanks
Client	Oiltanking Odfjell Singapore Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	April 2013
Date of Completion	Dec 2014

Oiltanking Odfjell Spherical Tanks, Jurong Island, Singapore

Project Description

- Total storage capacity - 12,000 cbm
- Product - 1,3 Butadiene
- Total of 3 spherical storage tanks, 1 marine loading arm at existing Jetty-12
- Detailed engineering work for tankage, civil & structure, mechanical equipment, piping, electrical & instrumentation
- Procurement of tank farm equipment such as steel plates, piping materials, pumps, knock out drum, marine loading arm, heat exchangers, dosing unit, electrical cables, field Instruments, tubing, fire fighting equipment, new panels, tank gauging system
- Construction of 3 nos. spherical tanks (I.D 20.2m), rundown line (5.3 Kilometer) from PCS plant & feed line (12.5 Kilometer) to Lanxess which to be run on common pipe corridor in Jurong Island



Oiltanking Odfjell Chem 6, Jurong Island, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Chem 6, 12" Stainless Steel MEG Jetty Line to MJ10 Project and related facilities
Client	Oiltanking Odfjell Singapore Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Feb 2008
Date of Completion	Jun 2009

Oiltanking Odfjell Chem 6, Jurong Island, Singapore

Project Description

- Total storage facility of 60,000 cbm
- Total of 19 carbon steel fixed roof tanks, 1 marine jetty topsite
- Detailed engineering work for tankage, civil, equipment sizing, piping, electrical & instrumentation
- Procurement of tank farm equipment such as steel plates, piping materials, electrical cables, instrument tubing, instrument gauges, pumps & motors etc
- Civil works include foundation, bund walls, pipe racks, sleepers, sewer system etc
- Installation of ship loading pumps, gangways, marine loading arms, marine loading arms, fire monitor tower, jetty jib
- Design basis includes consideration of product (monoethylene glycol), tankage, piping, product pumps & utilities, primary and secondary wastewater system



Oiltanking Phase 10, Jurong Island, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Oiltanking Phase 10 Expansion
Client	Oiltanking Singapore Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Mar 2008
Date of Completion	May 2009

Oiltanking Phase 10, Jurong Island, Singapore

Project Description

- Total storage capacity of 40,200 cbm
- Total of 8 dome roof tanks (white products) and 1 slop tank
- Civil works include tank foundations, substation, oil water separator, pipe sleeper, bund walls, pump foundation and road access
- Piping works include loading and receiving, SS304L pipeline to J10, wastewater pipeline, portable water pipeline, nitrogen pipeline, plant air pipeline and valves
- Mechanical works include installation of 2 x 500 m³ ship loading centrifugal pump, fire fighting system
- E&I works include substations, MOVs, terminal lighting and installation of PVRVs and ERVs
- Also assist in commissioning



Oiltanking Odfjell Chem 5, Jurong Island, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Chem 5, PO Tanks and Chem 4 Tank Conversion Project
Client	Oiltanking Odfjell Singapore Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Sep 2007
Date of Completion	Dec 2008

Oiltanking Odfjell Chem 5, Jurong Island, Singapore

Project Description

- Total storage facility of 79,200 cbm
- Total of 7 numbers of carbon steel dome roof tanks, jetty top sites, common facilities and utilities
- Detailed engineering work for tankage, civil, equipment sizing, piping, electrical & instrumentation.
- Procurement of tank farm equipment such as steel plates, piping materials, electrical cables, instrument tubing, instrument gauges, pumps & motors etc
- Civil works include foundation, bund walls, pipe racks, sleepers, sewer system etc
- Installation of ship loading pumps, gangways, marine loading arms, fire monitor tower, jetty jib
- Design basis includes consideration of product (monoethylene glycol), tankage, piping, product pumps & utilities, primary and secondary wastewater system



Universal Terminal, Jurong Island, Singapore



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Crude and Petroleum Storage & its Related Services
Client	Universal Terminal Pte Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Dec 2005
Date of Completion	Oct 2007

Universal Terminal, Jurong Island, Singapore

Project Description

- Single phase EPC Project of 2.3 million cbm of Petroleum Storage Terminal Facilities completed in 22 months
- For storage of Crude Oil, Fuel Oil, Lube Oil, Marine Diesel Oil, Gas Oil, Mogas, Naphtha, Jet Fuel
- 70 numbers of Product tanks, including 36 Aluminum Dome Roof Tanks and 34 External Floating Roof Tanks
- 3 numbers of waste water tanks
- Approximately 620,000 diameter-inch of piping works, 45,000 tons of carbon steel plates
- Engineering scope consists of FEED to as-built drawings
- Major achievements in Engineering such as impounding basin design for 6 numbers of 100,000 cbm tanks with optimization of land area done in accordance to code requirements
- Engineering design was done before land reclamation was completed



Oiltanking Merak, West Java, Indonesia



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Tank Terminal & Jetty Topsides at Merak (West Java) Indonesia
Client	PT Oiltanking Merak
Main Contractor	PT Rotary Engineering Indonesia
Date of Commencement	Feb 2008
Date of Completion	Dec 2009

Oiltanking Merak, West Java, Indonesia

Project Description

- Basic engineering followed by the detailed engineering of the tank terminal and jetty topside facilities
- Vertical storage tanks laid out in 4 tank farms
- Total storage facility of 283,500 cbm
- Total of 21 tanks, 2 jetty top site facilities, truck loading facilities, 1 RC main & 4 Containerised S/S
- Tank capacities ranged from 200 cbm to 21,200 cbm
- Products stored include jet fuel, Mogas, Naphtha, MTBE, Gas Oil and Diesel
- Engineering achievement - the site was located within Seismic Zone 4 and all the facilities in the project were designed for seismic loading



Vopak Multi Product Terminal, Shanghai, China



SCOPE OF WORK

Engineering Design and Procurement:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Multi Product Terminal
Client	Vopak Shanghai Logistics Co. Ltd
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Jan 2003
Date of Completion	Dec 2006

Vopak Multi Product Terminal, Shanghai, China

Project Description

- Total of 62 numbers of chemical storage tanks of CS and SS material
- EPC work includes truck loading bay, drum filling room, pipe racks and jetty topsides
- Detailed engineering work for tankage, civil, equipment sizing, piping, electrical and instrumentation works
- Procurement of tank farm equipment such as steel plates, piping materials, electrical cables, instrument tubing, instrument gauges, pumps and motors etc
- Equipment works include installation of ship loading pumps, gangways, marine loading arms, fire monitor tower, jetty jib



Vopak Ethylene Terminal, Tianjin, China



SCOPE OF WORK

Engineering Design,
Procurement and Construction:

1. Civil
2. Tankage
3. Piping & Structures
4. Equipment Installation
5. Electrical & Instrumentation

Project Title	Temperature Ethylene Terminal
Client	Vopak Ethylene Tianjin Terminal Co. Ltd.
Main Contractor	Rotary Engineering Ltd
Date of Commencement	Jul 2003
Date of Completion	Dec 2005

Vopak Ethylene Terminal, Tianjin, China

Project Description

- Engineering scope involved the detailed engineering of the facility
- The facility is an ethylene import/ export terminal
- 1 number refrigerated ethylene tank with a storage capacity of 15,000 cbm, ship unloading system and send-out system to the downstream plant
- Ethylene was stored at a temperature of approx -103°C
- The tank was designed as a single containment steel wall with perlite insulation system
- EPC work includes other facilities like control building, substation, etc



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ROTARY

Smart thinking. Safe hands.