

# Map Ta Phut - Thailand

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**Position** – Lat. 12° 40' N Long. 101° 10' E

**Port Limit:** South limit is the crossing line from East to West from Latitude 12° 36' N. The East is boundary line along Longitude 101° 10' E. The West is boundary line along from Khao Huai Ma Hat 289 metres of mean sea level toward South.

**Altname:** Mab Tapud

**Plans:** Yes

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**Publisher:** Shipping Guides Ltd.

**Description:** Information about the Port of Map Ta Phut collated from a variety of sources including, but not limited to, the port authority, port and terminal operators and the reports of masters, officers and crews of vessels visiting the port.

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## Overview

Map Ta Phut port is an industrial harbour owned and managed by the Industrial Estate Authority of Thailand (IEAT). The Port consists of two types of berths.

1. Public Berths are opened to provide services to every customers consist of :
  - Thai Prosperity Terminal Co., Ltd (TPT)
  - Thai Tank Terminal Ltd (TTT)
2. Specific Berths are only used by the investor groups and their customers consist of :
  - National Fertilizer Co.,Ltd. (NFC)
  - Rayong Bulk Terminal Co.,Ltd (RBT)
  - Star Petroleum Refining Co.,Ltd (SPRC)
  - PTT Global Chemical Public Co.,Ltd (PTTGC)
  - Maptaphut Tank Terminal Co.,Ltd (MTT)
  - GLOW SPP3 Co.,Ltd (GLOW SPP3)
  - BLCP Power Co.,Ltd (BLCP)
  - PTT LNG Co.,Ltd (PTT LNG)
  - PTT TANK Co.,Ltd (PTT TANK)
  - Rayong Terminal Co.,Ltd (RTC)

## Location

On the east coast of the Gulf of Thailand, between Sattahip and Rayong, approximately 220 km. from Bangkok.

## Charts

Hydrographic Department, Royal Thai Navy (RTN) Charts No. 141 and 157.

BA Charts No. 67, 3724 and 3966.

## **Documents**

The following documents are required:

Berth Application

Ship Registry

\* Ship Owner intention to bring a vessel into Port Zone must inform at least 24 hours in advance and utilize the tug and service boats arranged by the port.

The Harbour Master also requires copies of the following documents or required on every call:

Name and Call Sing of the ship

ETA to Berth

Vessel's Particular, Q88 and/or Form C

Details of cargo (such as Quantities, etc.)

Details of ship's manifold including type, size and numbers

Whether the Ship has external-impressed Cathodic Protection

Certificate of Fitness

Safety Management Certificate (SMC)

International Oil Pollution Prevention Certificate (IOPP)

International Ship Security Certificate (ISSC)

ISPS Code: Exchange of Information Form, and

Other details required by the terminal

## **ISPS Compliance**

Port is compliant.

### **Max. Size**

Chemicals: 115,000 DWT., LOA 260 m., draft 15.0 m.

Crude: 85,000 DWT., LOA 260 m., draft 11.0 m.

Coal: 120,000 DWT., LOA 260 m., draft 15.0 m

General Cargo: 80,000 DWT., LOA 260 m., draft 11.9 m.

LPG: 3,000 DWT., LOA 125 m., draft 7.4 m.

LNG: 264,000 cubic meter., LOA 345 m., draft 12.0 m

SPM : Displacement 350,000 tonnes, draft 20.7 m.

## **Approaches**

The width of the approach channel to the port is 250 m. and depth 12.5 m (LLW). The length of the fairway from Entrance Buoy up to breakwater is 2 Nautical miles.

## **Pilotage**

Compulsory for all vessels. Exemptions for regular local traders have been introduced. The Pilots also serve as Docking Masters, berthing the vessel with the assistance of tugs.

The Pilot embarks approximately in position Lat. 12° 36.0' N, Long. 101° 10.0' E. Pilots watch is kept throughout 24 hours.

The Master of vessel shall order a Pilot via the ship's Agent advance.

## **Anchorage**

Anchorage can be obtained in the Circular area 1 Nautical miles radius around Lat. 12°35.0' N, Long. 101°12' E.

## **Pre-Arrival Information**

Vessels bound for the Map Ta Phut Port has to advise IEAT of their ETA 24 hours prior arrival sent to Maptaphut port control and also Ship Agent has to submit berth application to IEAT. The First contact to Maptaphut port control is in VHF range. The ETA and maximum arrival draft to be confirmed verbally to the pilot station two hours before the Pilot embarks.

## VHF

Vessel can also establish radio contact through the port radio, 24 hours per day on the follow channels:

Call Sign	Channel
Maptaphut Port Control	16,14,13
Maptaphut Pilot	14
Port Communication	13

## VTS/RADAR

There is a VTMS service in operation within the port limits. Vessel Traffic management system(VTMS) facilitate the safe and efficient movement of vessel in port, contact on International Marine Band VHF channel 16, Call sign "Maptaphut Port Control".

## TUGS

Vessels over LOA 150 m. require two tugs, and vessels with LOA 213 m. and over require three tugs under normal weather conditions. Tug's lines are used.

The tug and its crew are regarded as employed by the ship being towed. All damage and costs to the tug arising during the assistance and for which the tug could be held responsible must be compensated for by the ship in question.

Tug services are arranged by the Agent. In the monsoon season, at least one tug must stand by in the near vicinity whilst the vessel is alongside.

## Restrictions:

Berthing and unberthing throughout 24 hours, weather permitting. Minimum 0.6 m. under-keel clearance required by the Pilot Office.

## BERTHING

### 1.Thai Prosperity Terminal (TPT)

Number of Berth	Length of Berth	Side	Draft
1	330	20,000 DWT	12.5
2	150	-	6.0

### 2.Thai Tank Terminal (TTT)

Number of Berth	Length of Berth	Side	Draft
1	280	43,500 DWT	11.9
2	280	80,000 DWT	11.9
3	120	10,000 DWT	11.9

### 3. PTT Global Chemical Public Co.,Ltd (PTTGC)

Number of Berth	Length of Berth	Side	Draft
1	260	85,000 DWT	11.0
2	209	40,000 DWT	10.7
3	110	6,000 DWT	7.5

### 4. Star Petroleum Refining Co.,Ltd (SPRC)

Number of Berth	Length of Berth	Side	Draft
1	85	2,000 DWT	10.6
2	180	20,000 DWT	8.4
3	260	85,000 DWT	10.6
4	150	14,000 DWT	10.6
5	135	10,000 DWT	8.5
Number of Berth	Length of Berth	Side	Draft
LNG North	125	3,000 DWT	7.4
LNG South	110	2,000 DWT	6.0

### 5. National Fertilizer Co.,Ltd. (NFC)

Number of Berth	Length of Berth	Side	Draft
1	240	60,000 DWT	11.9

6. Maptaphut Tank Terminal Co.,Ltd (MTT)						
	Number of Berth	Length of Berth	Side		Draft	
	1	260		115,000 DWT		15.0
	2	225		20,000 DWT		10.0
	3	245		80,000 DWT		14.5
	4	127		10,000 DWT		9.4
7. Rayong Bulk Terminal Co.,Ltd (RBT)						
	Number of Berth	Length of Berth	Side		Draft	
	1	240		60,000 DWT		11.9
8. GLOW SPP3 Co.,Ltd (GLOW SPP3)						
	Number of Berth	Length of Berth	Side		Draft	
	1	225		58,000 DWT		12.5
9. BLCP Power Co.,Ltd (BLCP)						
	Number of Berth	Length of Berth	Side		Draft	
	1	260		120,000 DWT		15.0
10. PTT LNG Co.,Ltd (PTT LNG)						
	Number of Berth	Length of Berth	Side		Draft	
	1	345		125,000 – 264,000 Cubic meter		12.0
11. PTT TANK Co.,Ltd (PTT TANK)						
	Number of Berth	Length of Berth	Side		Draft	
	1	223		60,000 DWT		10.6
	2	130		7,000 DWT		10.6
12. Rayong Terminal Co.,Ltd (RTC)						
	Number of Berth	Length of Berth	Side		Draft	
	1	211		50,000 DWT		12.6

### **Thai Prosperity Terminal (TPT)**

Granted the 30 years concession is the multi – purpose terminal, having the length of piers at 330 meters able to handle 20,000 DWT vessel, and 150 meters for small craft.

### **Thai Tank Terminal (TTT)**

#### Overview

The marine terminal consists of three identical liquid cargo berths for importation/exportation of mineral oils, chemicals and liquefied gases.

#### Operator

Thai Tank Terminal Ltd, Liquid Cargo Terminal. Tel: +66 (38) 683172. Fax: +66 (38) 683172.

[www.thaitank.com](http://www.thaitank.com) Contact: Operations Manager or Terminal Manager

#### Berthing Limitation

##### Berth 1:

Length of Berth	280	m.
Max. Length of ship to berth (LOA)	200	m.
Min. Ships parallel body length	30	m.
Min. free board a full load	0.50	m.
Max. DWT	43,500	DWT
Water Depth	12.5	m.CDL
Min. sea bed clearance required (UKC)	0.6	m.
Platform	Fixed fendering	
Mooring	4 mooring dolphins and 6 breasting dolphins symmetry for both side of platform.	



16" Loading Arm Operating Envelope		Maximum Height 22.0 m above MHHW
8" Loading Arm Operating Envelope		Minimum Height 14.4 m above MHHW
Maximum L.O.A	260.0	Meters.
Minimum L.O.A	88.0	Meters.
Maximum Beam	46.0	Meters.
Maximum Draft	11.5	Meters.
Maximum Displacement	85,626	Long tons (87,000 Tonnes)
Maximum manifold height on arrival limited at 20.0 Meters for 16" Loading arms		
Maximum manifold height on arrival limited at 13.0 Meters for 8" Loading arms		

#### Jetty 2:

Grade Available for Export		Export, High Speed Diesel, Fuel Oil, Mogas Tops, Naptha and Jet A-1.
Import		Crude, Fuel Oil , MTBE and Condensate
Ballast Facilities		N/A
Vessel size will be governed by the Loading Arm Operating Envelope as L.O.A. and Draft		
12" Loading Arm Operating Envelope		Maximum Height 22.0 m above MHHW
8" Loading Arm Operating Envelope		Minimum Height 14.4 m above MHHW
Maximum L.O.A	209.0	Meters.
Minimum L.O.A	65.0	Meters.
Maximum Beam	32.0	Meters.
Maximum Draft	11.5	Meters.
Maximum Displacement	48,739	Long tons (49,520 Tonnes)
Maximum manifold height on arrival limited at 18.0 Meters for 12" Loading arms		
Maximum manifold height on arrival limited at 13.0 Meters for 8" Loading arms		

#### Jetty 3:

Grade Available for Export		Export, High Speed Diesel, Fuel Oil, Mogas Tops, Naptha and Jet A-1.
Import		MTBE
Ballast Facilities		N/A
Vessel size will be governed by the Loading Arm Operating Envelope as L.O.A. and Draft		
8" Loading Arm Operating Envelope		Maximum Height 14.4 m above MHHW
6" Loading Arm Operating Envelope		LPG only not used.
Maximum L.O.A	110.0	Meters.
Minimum L.O.A	60.0	Meters.
Maximum Beam	18.0	Meters.
Maximum Draft	7.5	Meters.
Maximum Displacement	7,842	Long tons (7,968 Tonnes)
Maximum manifold height on arrival limited at 13.0 Meters for 8" Loading arms		

## **Star Petroleum Refining Co.,Ltd (SPRC)**

### *Overview*

The Star Petroleum Refining Co.,Ltd Marine Terminal consists of two concrete piers. Product vessels are handled at all berths on the southern pier, the northern pier is dedicated to LPG. A vessel will only be accepted at a berth if it is compatible with all aspects of the berth design.

Special attention is paid to a vessel's manifold arrangements which must be of a fixed and permanent design (including pipelines, valves and supports, etc.), and form part of the vessel's structure. All vessels shall have manifold arrangements which comply with the standards recommended by the OCIMF Standards for Tanker Manifolds and Associated Equipment.

### Operator

Star Petroleum Refining Company Limited, Map Ta Phut, Thailand.

Tel: +66 (38) 699412 or 699407.

In the event of an emergency

Contact the SPRC Marine Terminal Callsign MCB (Marine Control Building) via UHF Channel 7A, VHF Channel 67 ,13 or Telephone +66 (38) 699412, 699407.

## Berthing

*Vessel moorings are used and a minimum of 5 suitable lines must be provided at each end.*

## Cargo Operations

### BERTH No. 1:

Vessel : L.O.A. 55-85 m, Maximum Draft 10.6 m, Maximum Displacement 106,176 mt.

Grades Available	Diesel, Fuel Oil
Loading Arm Operating Envelope (8'') (all grades)	Maximum Height 17.8 m above MHHW Minimum Height 0.96 m above MLLW

### BERTH No. 2:

Vessel : L.O.A. 55-180 m, Maximum Draft 8.4 m, Maximum Displacement 106,176 mt.

Grades Available	Mogas, Reformate, Diesel, Fuel Oil, (Jet-future)
Loading Arm Operating Envelope (8'')	Maximum Height 17.8 m above MHHW Minimum Height 0.96 m above MLLW

Loading Arm Operating Envelope (8'') (Jet-will be available in 2009)	Maximum Height 14.8 m above MHHW Minimum Height 0.1 m above MLLW
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### BERTH No. 3:

Vessel : L.O.A. 55-260 m, Maximum Draft 10.6 m, Maximum Displacement 106,176 mt.

Grades Available	Mogas, Diesel, Heavy Gasoil, Fuel Oil, Naptha Crude (unload), (Jet-future)
Loading Arm Operating Envelope (8'') (Mogas, Diesel, Fuel Oil)	Maximum Height 17.8 m above MHHW Minimum Height 0.96 m above MLLW

Loading Arm Operating Envelope (12'') (Crude, Fuel Oil, Heavy Gasoil, Naptha)	Maximum Height 16.8 m above MHHW Minimum Height 6.77 m above MLLW
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Loading Arm Operating Envelope (10'') (Jet-will be available in 2009)	Maximum Height 20.6 m above MHHW Minimum Height 2.2 m above MLLW
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### BERTH No. 4:

Vessel : L.O.A. 55-150 m, Maximum Draft 10.6 m, Maximum Displacement 106,176 mt.

Grades Available	Mogas, Reformate, Diesel
Loading Arm Operating Envelope (8'') (all grades)	Maximum Height 17.8 m above MHHW Minimum Height 0.96 m above MLLW

### BERTH No. 5:

Vessel : L.O.A. 55-135 m, Maximum Draft 8.5 m, Maximum Displacement 106,176 mt.

Grades Available	Mogas, Reformate, Diesel, Asphalt
Loading Arm Operating Envelope (8'') (all grades)	Maximum Height 17.8 m above MHHW Minimum Height 0.96 m above MLLW

## LPG North:

\*\*\* Fully pressurized LPG vessels only\*\*\*

Vessel : L.O.A. 50-125 m, Maximum Draft 7.4 m, Maximum Displacement 14,224 mt.

Grades Available	LPG (no unload)
Loading Arm Operating Envelope (6'')	Maximum Height 12.4 m above MHHW Minimum Height 2.18 m above MLLW

LPG South:

\*\*\* Fully pressurized LPG vessels only\*\*\*

Vessel : L.O.A. 50-110 m, Maximum Draft 6 m, Maximum Displacement 14,224 mt.

Grades Available LPG (no unload)

Loading Arm Operating Envelope (6'') Maximum Height 12.4 m above MHHW  
Minimum Height 2.18 m above MLLW

### **National Fertilizer Co.,Ltd. (NFC)**

Is the dedicated terminal for the fertilizer factory, having the length of pier at 240 meters and 11.9 meters draft, able to handle 60,000 DWT vessel.

### **Maptaphut Tank Terminal Co.,Ltd (MTT)**

#### *Overview*

Map Ta Phut Tank Terminal Co.,Ltd (MTT) has 4 jetties located on the Southside of Map Ta Phut port in close proximity to the port's entrance.

#### Operator

Map Ta Phut Tank Terminal Co.,Ltd,18 I-8 Road, Map Ta Phut, Muang District, Rayong Province 21150, Thailand.

Tel: +66 (38) 684447,Fax: +66 (38) 693199, E-mail:mttplan@scg.co.th

In the event of an emergency

Contact the CCR and Jetty Operator via UHF Channel 7, VHF Channel 13 or Telephone +66 (38) 687194.  
Rayong Terminal Tel.+66 (38) 684447

#### Mooring

Vessel LOA up to 110 meters: 4 breast lines and 2 springs at each end.

Vessel LOA between 110-180 meters: 5 breast lines and 2 springs at each end.

Vessel LOA over 180 meters: 6 breast lines and 2 springs at each end.

If, due to the mooring layout and the length of the vessel. Above stated breast lines at each end are not possible, some may be adjusted as head/stern line respectively.

### **Cargo Operations**

#### Jetty 1

Product	L/A Number and Size	Un-loading Rate	Loading Rate
Naphtha	LA-3001 A/B 2x16" with 150 ASA flanges	3,200x2	-
Methyl Methacrylate	LA-3009 1x6" with 150 ASA flange-		400
Benzene	LA-3010 1x8"with 150 ASA flange	1,200	1,200
Light Reformate/	LA-3010		
Raw Pygas	1x8" with 150 ASA flange	180	-
Toluene	LA-3010 1x8" with 150 ASA flange	1,200	400x2
Pyrolysis Gasoline (C8+/ C9+)	LA-3010 1x8" with 150 ASA flange	-	300
Mixed Xylene	LA-3010 1x8" with 150 ASA flange	-	500
Paraxylene	LA-3010 1x8" with 150 ASA flange	1,200	-
Propane	LA-3014 1x12" with 150 ASA flange	2,500	-
Butane	LA-3014 1x12" with 150 ASA flange	2,500	-

Jetty 2			
Product	L/A Number and Size	Un-loading Rate	Loading Rate
Ethylene	LA-3003 Vapor return	800	300
	1x8" with 300 ASA flange 1x4" with 150 ASA flanges		
Propylene	LA-3003 Vapor return		300
	1x8" with 300 ASA flange 1x4" with 300 ASA flange	500	
Butadiene	LA-3005 Vapor return		250
	1x6" with 300 ASA flange 1x3" with 300 ASA flange	350	
Butene-1	LA-3005 Vapor return		250
	1x6" with 300 ASA flange 1x3" with 300 ASA flange	350	
Mixed C4	LA-3005 Vapor return		-
	1x6" with 300 ASA flange 1x3" with 300 ASA flange	350	
Tertiary Butyl Alcohol	LA-3007	350	250
	1x6" with 150 ASA flange		
Methanol	LA-3007	450	-
	1x6" with 150 ASA flange		
Methyl Methacrylate	LA-3008	-	250
	1x6" with 150 ASA flange		
Mono Ethylene Glycol	LA-3011	450	-
	1x6" with 150 ASA flange		
Acetic Acid	LA-3012	450	-
	1x6" with 150 ASA flange		
Jetty 3			
Product	L/A Number and Size	Un-loading Rate	Loading Rate
Solvent	LA-3006	600	-
	1x8" with 150 ASA flange		
Naphtha	LA-3013 A/B		
	2x16" with 150 ASA flanges	3,200x2	-
Octene	LA-3016		
	1x8" with 300 ASA flange	600	-
Hexene	LA-3016	600	-
	1x8" with 300 ASA flange		
Benzene	LA-3015	800	400x2
	1x8" with 150 ASA flange		
Pyrolysis Gasoline (C8+/ C9+)	LA-3015	-	500
	1x8" with 150 ASA flange		
Paraxylene	LA-3015	1,200	-
	1x8" with 150 ASA flange		
Jetty 4			
Product	L/A Number and Size	Un-loading Rate	Loading Rate
Toluene	LA-3002	1,200	-
	1x8" with 150 ASA flange		
Mixed Xylene	LA-3002		500
	1x8" with 150 ASA flanges	-	
Propylene	LA-3004 Vapor return		300
	1x8" with 300 ASA flange 1x4" with 300 ASA flange	500	

Note: Vapor return line of Ethylene, Propylene, Butadiene and Butene-1 products will be connected to ship vapor manifold for vent to flare in emergency use only.

### **Rayong Bulk Terminal Co.,Ltd (RBT)**

Is the general cargo terminal, having the length of pier at 1026 meters and 11.9 meters of draft, able to handle 60,000 DWT vessels.

### **GLOW SPP3 Co.,Ltd (GLOW SPP3)**

Is the terminal for the coal fired power plant, having the length of pier at 225 meters and 11.9 meters draft, able to handle 58,000 DWT vessels.

### **BLCP Power Co.,Ltd (BLCP)**

Is the terminal for the coal fired power plant, having the length of pier at 260 meters and 15 meters draft, able to handle 120,000 DWT vessels.

### **PTT LNG Co.,Ltd (PTT LNG)**

#### *Overview*

Map Ta Phut LNG Terminal is located in the Map Ta Phut Industrial port area.

#### Operator

PTT LNG Company Limited, I-8 Road, Map Ta Phut, Muang District, Rayong Province 21150, Thailand.

Contact: Terminal Representatives

Name: Somsak (Acting VP.) E-mail:somsak.p@pttlng.com Fax: +66(0) 33-658560 Ext.335

Name: Opas, (Berth Master) E-mail:opas.t@pttlng.com Fax: +66(0) 33-658560 Ext.335

Name: Phulung, (Loading Master) E-mail:phulung.n@pttlng.com Fax: +66(0) 33-658560 Ext.335

#### Terminal's Marine and Unloading Facilities

Unloading Arms	:	16 inches x3(Maximum Flow 5,000 m <sup>3</sup> / hour / arm)
Vapour Return Arms	:	16 inches x1(Maximum Flow 15,000 m <sup>3</sup> / hour)
Loading Platform	:	1 loading Platform (accommodate with jetty ancillary building)
Gangway Tower	:	1 unit
Dolphin	:	4 breasting dolphins and 6 mooring dolphins
Fender	:	4 unit
Mooring Hook	:	10 set x 28 quick release hooks
Tension Monitoring	:	Installed at each mooring hook station
Capstan	:	Installed at each mooring hook station
ESD Communication	:	Fiber Optic and Electric Pyle National
Communication System	:	VHF marine radio communications system UHF plant radio system Telephone system (PABX & Hot Line)
Shore Tank	:	160,000 m <sup>3</sup> x 2 tanks
Environment Monitoring	:	Anemometer, Current sensor, Wave gauge, Tide gauge
Docking Aids System	:	Laser sensor 2 units and Large display board 1 unit
Boil of Gas Compressor	:	2 units (Reciprocation Type)
Fire Fighting System	:	Fire water monitor, Fire hydrant & Hose reel Fire extinguisher, Flame and gas detector High expansion foam, Dry chemical, Form pumper truck

### **PTT TANK Co.,Ltd (PTT TANK)**

#### *Overview*

Map Ta Phut port is an industrial port owned and managed by the Industrial Estate Authority of Thailand (IEAT). The Terminal is owned and operated by PTT Tank Terminal Company Limited. The Terminal consists of two berths which are located on the West side of Map Ta Phut port in close vicinity of the GLOW Terminal and TPT Terminal.

## Operator

PTT Tank Terminal Company Limited. 15 I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Rayong, Thailand.

## Mooring

Vessel up to 5,000 DWT : 2 head/stern lines and 2 springs lines.  
Vessel between 5,000 - 30,000 DWT : 3 head/stern lines and 2 springs lines.  
Vessel between 30,000 - 60,000 DWT : 3 head/stern ,3 breast lines and 2 springs lines.

## Loading Arm Operating Limit

### Ammonia Loading Arm

Size of Connecting Flange : 12" ANSI 300lbs (Liquid Line)  
: Non-Vapor Return Line  
Operating Flow Rate : 1,500 m<sup>3</sup>/hr (max)  
Operating Pressure : 7.90 barg (max)  
Cargo Temperature : -33.0°C (min)  
Height Limit from HHWL : 13.50 m (max)  
Low Limit from LLWL : 6.50 m (min)  
Height from deck : 2.10 m (max) 0.70 m (min)  
From Ship Side to Ship Manifold : 4.00 m (max) 2.00 m (min)  
Parallel Body length fwd to manifold : 31.25 m (min)  
Parallel Body length aft to manifold : 6.75 m (min)  
Transverse Drift : 3.00 m (max)  
Sway Left / Right : 3.00 m (Each)

Please be noted that cargo temperature must be kept lower than -33.0 (Minus Thirty three) Degree Celsius for smooth operation. In case the ship does not meet this criterion, any time lost and/or delay will be the Ship's Account.

### Sulfuric Acid Loading Arm

Size of Connecting Flange : 8" ANSI 300lbs (Liquid Line)  
Operating Flow Rate : 212 m<sup>3</sup>/hr (max)  
Operating Pressure : 10 barg (max)  
Height Limit from HHWL : 14.50 m (max)  
Low Limit from LLWL : 3.63 m (min)  
Height from deck : 2.10 m (max) 0.70 m (min)  
From Ship Side to Ship Manifold : 0.53 m (max) 2.29 m (min)  
Parallel Body length fwd to manifold : 17.25 m (min)  
Parallel Body length aft to manifold : 20.75 m (min)  
Transverse Drift : 3.00 m (max)  
Sway Left / Right : 3.10 m (Each)

### AN Loading Arm

Size of Connecting Flange : 6" ANSI 300lbs (Liquid Line)  
: 4" ANSI 300lbs  
: (Vapor Return Line)  
Operating Flow Rate : 273 m<sup>3</sup>/hr (max)  
Operating Pressure : 10 barg (max)  
Height Limit from HHWL : 14.50 m (max)  
Low Limit from LLWL : 3.63 m (min)  
Height from deck : 2.10 m (max) 0.70 m (min)  
From Ship Side to Ship Manifold : 5.03 m (max) 2.29 m (min)  
Parallel Body length fwd to manifold : 27.75 m (min)  
Parallel Body length aft to manifold : 10.25 m (min)  
Transverse Drift : 3.00 m (max)  
Sway Left / Right : 3.10 m (Each)

### MMN Loading Arm

Size of Connecting Flange	: 6" ANSI 300lbs (Liquid Line)
	: 4" ANSI 300lbs
	: (Vapor Return Line)
Operating Flow Rate	: 230 m <sup>3</sup> /hr (max)
Operating Pressure	: 10 barg (max)
Height Limit from HHWL	: 14.50 m (max)
Low Limit from LLWL	: 3.63 m (min)
Height from deck	: 2.10 m (max) 0.70 m (min)
From Ship Side to Ship Manifold	: 5.03 m (max) 2.29 m (min)
Parallel Body length fwd to manifold	: 24.25 m (min)
Parallel Body length aft to manifold	: 13.75 m (min)
Transverse Drift	: 3.00 m (max)
Sway Left / Right	: 3.10 m (Each)

### LPG Loading Arm

Size of Connecting Flange	: 6" ANSI 300lbs (Liquid Line)
Operating Flow Rate	: 308 m <sup>3</sup> /hr (max)
Operating Pressure	: 18.0 barg (max)
Pressure of Ship Tanks	: 18.0 barg
Safety Valve Setting	: 18.6 barg (max)
	: 15.5 barg (min)
Relief Valve Setting	: 20.0 barg (max)
	: 15.5 barg (min)
Ship Tank Vapor Pressure	: 3.0 barg (min)
Height Limit from HHWL	: 14.50 m (max)
Low Limit from LLWL	: 2.38 m (min)
Height from deck	: 2.10 m (max) 0.70 m (min)
From Ship Side to Ship Manifold	: 3.60 m (max) 1.90 m (min)
Parallel Body length fwd to manifold	: 13.75 m (min)
Parallel Body length aft to manifold	: 24.25 m (min)
Transverse Drift	: 3.00 m (max)
Sway Left / Right	: 3.10 m (Each)

### Propylene Loading Arm

Size of Connecting Flange	: 6" ANSI 300lbs (Liquid Line)
	: 6" ANSI 300lbs
	: (Vapor Return Line)
Operating Flow Rate	: 308 m <sup>3</sup> /hr (max)
Operating Pressure	: 20.0 barg (max)
Pressure of Ship Tanks	: 20.0 barg
Safety Valve Setting	: 20.6 barg (max)
	: 15.5 barg (min)
Relief Valve Setting	: 22.0 barg (max)
	: 15.5 barg (min)
Ship Tank Vapor Pressure	: 3.0 barg (min)
Height Limit from HHWL	: 14.50 m (max)
Low Limit from LLWL	: 2.38 m (min)
Height from deck	: 2.10 m (max) 0.70 m (min)
From Ship Side to Ship Manifold	: 3.60 m (max) 1.90 m (min)
Parallel Body length fwd to manifold	: 13.75 m (min)
Parallel Body length aft to manifold	: 24.25 m (min)
Transverse Drift	: 3.00 m (max)
Sway Left / Right	: 3.10 m (Each)

## **Rayong Terminal Co.,Ltd (RTC)**

### *Overview*

Rayong Terminal Co.,Ltd (RTC) has a jetty located on the Southside of Map Ta Phut port in close proximity to the port's entrance.

### *Operator*

Rayong Terminal Co.,Ltd,9 I-1 Road, Map Ta Phut, Muang District, Rayong Province 21150, Thailand.

Tel: +66 (38) 693133,Fax: +66 (38) 693134 ,E-mail: rtcplan@scg.co.th

In the event of an emergency

Contact the CCR and Jetty Operator via UHF Channel 9, VHF Channel 13 or Telephone +66 (38) 693122.

Rayong Terminal Tel.+66 (38) 693133

### *Mooring*

Vessel LOA up to 110 meters: 4 fwd.head lines and 2 springs at each end.

Vessel LOA between 110-180 meters: 2 fwd.head lines, 3 fwd.breast lines and 2 springs at each end.

Vessel LOA over 180 meters: 3 fwd.head lines, 3 breast lines and 2 springs at each end.

## **Cargo Operations**

Product	L/A Number and Size	Un-loading Rate	Loading Rate
Propylene	LA-1001 1x6" with 300 ASA flanges	-	300
Propylene Oxide	LA-2001 1x8" with 150 ASA flange-		800

Note: Vapor return line of Ethylene, Propylene, Butadiene and Butene-1 products will be connected to ship vapor manifold for vent to flare in emergency use only.

## **Waste Disposal**

It is prohibited to let any waste or garbage into the harbour. Waste and garbage can be discharged and correct by the Authorized Operation.

## **Ballast**

Can be discharged and corrected with appropriate procedure regarding to the law by the Authorized Operation.

## **Medical**

Hospitalization, doctors and dentists are available on request via Agent.

## **Fresh Water**

Ordered via Agent in advance and can be delivered by pipeline and by barge, Depending on jetty regulations.

## **Fuel**

Bunkers have to be ordered through the Agent, delivery by bunker barge at anchorage.

## **Chandlery**

Provisions and stores of good quality available on 48 hours' notice via Agent. Deck/engine room spares are usually available in reasonable quantities, but selection is very limited.

## **Storing**

Provisions and Stores: Storing of vessels may be permitted during operations, but only with permission of both the Terminal Manager and the Master of the vessel. No trucks or vans are allowed on jetty. Access to the jetty and/or vessel shall never be obstructed. Small items of ship's stores, capable of being carried by hand, may be handled via the jetty's gangway, provided that any metallic object or package is suitably wrapped to prevent any risk of metal to metal contact.

## **Repairs**

In general, repair work is not permitted while alongside any jetty. Except general cargo terminals can be and correct by the Authorized Operation

## **Weather/Tides**

### **Tidal Conditions**

The tidal factors in Map Ta Phut port have been reviewed and set out as follows:

Highest Astronomical Tide (HAT):	+3.5 m.
Mean Higher High Water (MHHW):	+3.0 m.
Mean High Water (MHW):	+2.8 m.
Mean Sea Level (MSL):	+2.2 m.
Mean Low Water (MLW):	+1.6 m.
Mean Lower Low Water (MLLW):	+1.4 m.
Lowest Astronomical Tide (LAT):	+0.5 m.
Chart Datum Line (CD):	±0.0 m.

The following show the rates of time-share above the specified water level, and their number of hours per day in the case of worst month and worst day respectively.

For example: The water levels of 1.0 m. above the Chart Datum occur for 97% of time in a year. Even in the worst month, tides over 1.0 m. account for 89.3%. On an average daily basis, tides over 1.0 m. occur for 21.5 hours a day. Even on the worst day, tides over 1.0 m. exist for more than 18 hours. All through the year, 0.5 m. tide is available for 99.9% of the time in Map Ta Phut port.

### **Tidal Currents**

Tidal and permanent coastal currents off the East Reclamation flow in an east-west direction across the outer channel. Current measurements at the 10.0 m. contour adjacent to the outer navigation channel indicate the maximum current velocities as shown below:

Ebb tide: East direction at 0.3 knots to 0.5 knots.  
Flood tide: West direction at 0.3 knots to 0.8 knots.

From this current data, it can be said that currents around the berth will not create any difficulty in ship handling whilst berthing and unberthing.

### **Waves**

According to the wave analysis, in the outer channel, waves higher than 1.5 m. occur for 1.5% of the year, and greater than 1.0 m. for 9.0% of the year. In general, the critical wave height in terms of efficient and safe cargo handling inside the port is less than 0.5 m. The inner harbour is protected by the west breakwater. Maximum wave height 2.8 m. (period of 8 seconds).

### **Winds**

October to January: North East and variable  
February to May: South  
June to September: South West

Mean monthly wind speed of 27.0 knots (13.9 km./hr.) or 7.5 knots (3.9 m./sec.), weak breeze.

Mean of maximum velocity of 20 knots (135.3 km./hr.) or 73 knots (37.6 m./sec.) Typhoons may occur (infrequent) in November from the north. Strong winds over 20 knots (10 m./sec.) are infrequent

## **Nearest Airport**

U-tapao International Airport, 40 Km.

Suvarnabhumi International Airport, 120 km.

## **Repatriation**

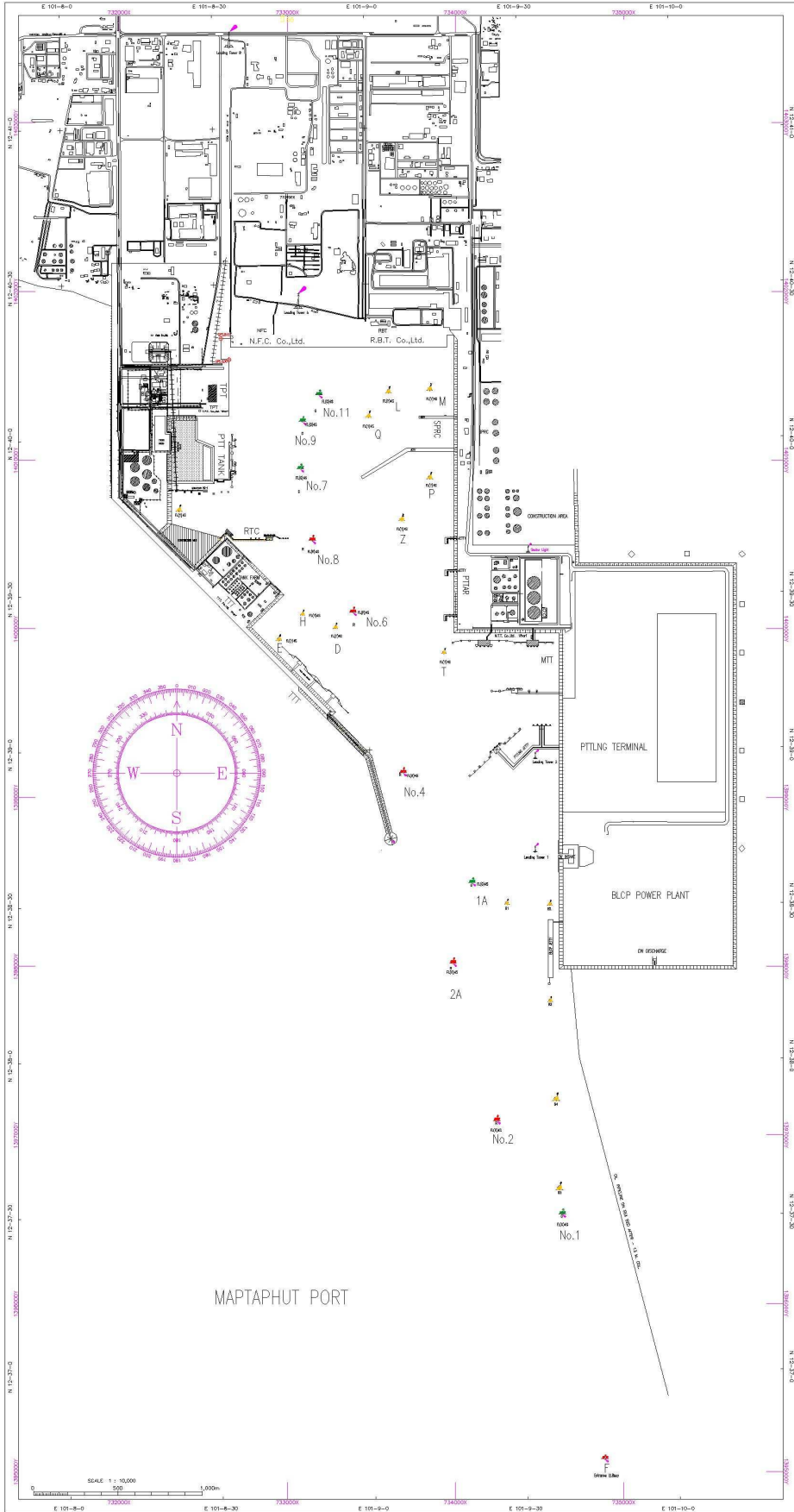
Possible.

## **Authority**

Map Ta Phut Industrial Port, 1 Road I-1, Map Ta Phut Sub-district, Muang, Rayong 21150, Thailand.

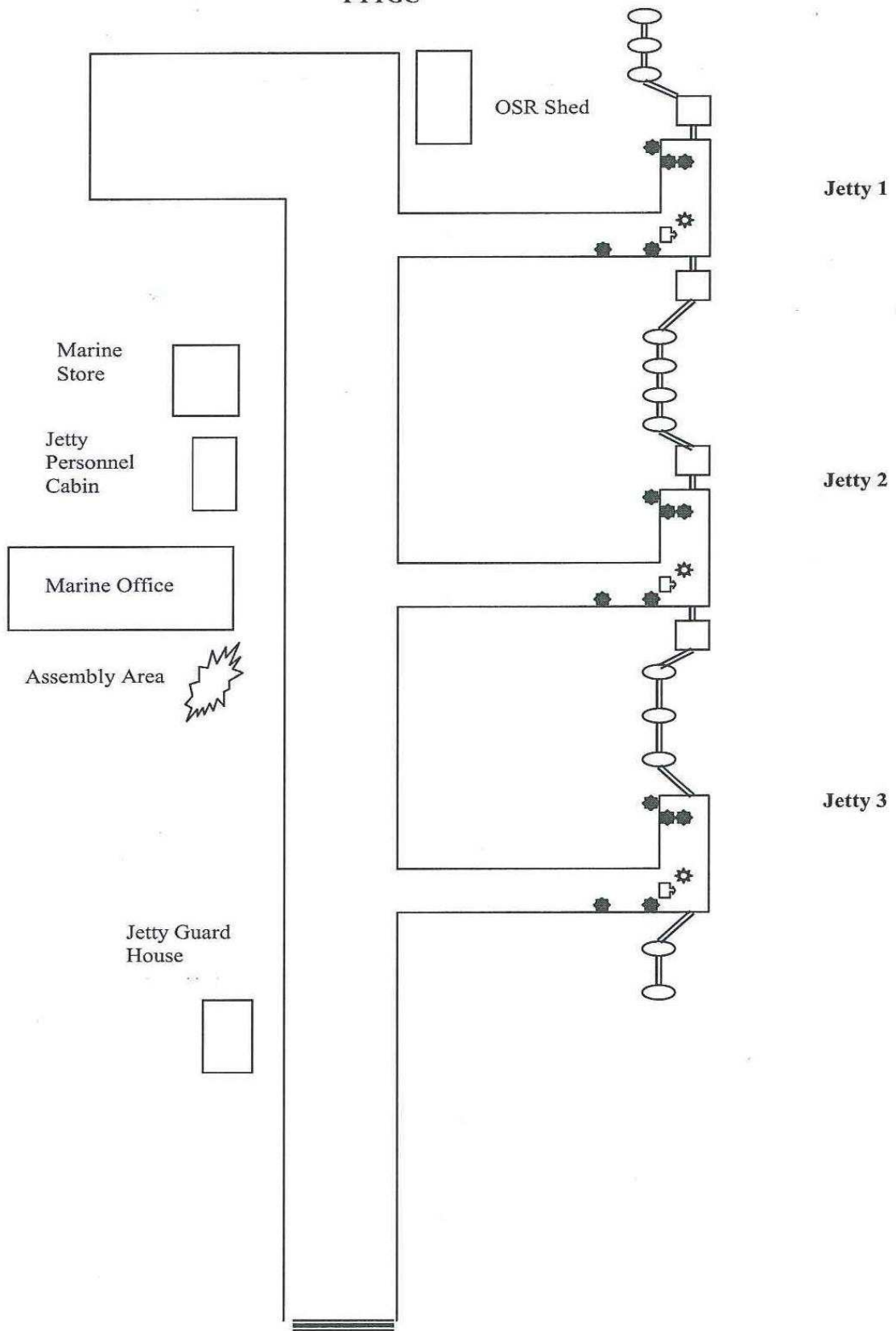
WWW: <http://www.maptaphutport.com/> Contact: Mr.Tanasarn Panichayakorn

E-mail: p.tanasarn@gmail.com

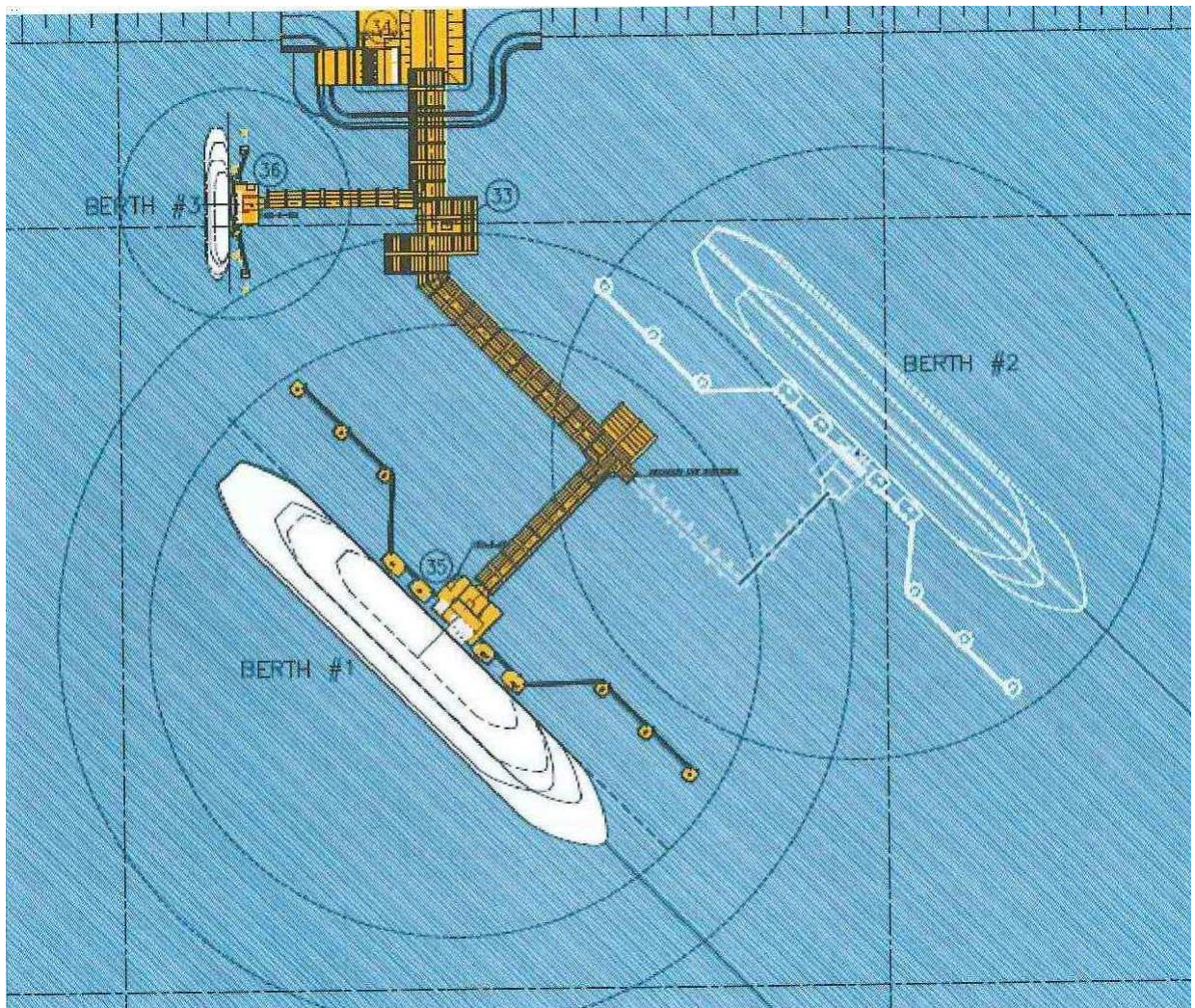


Maptaphut Port Overview

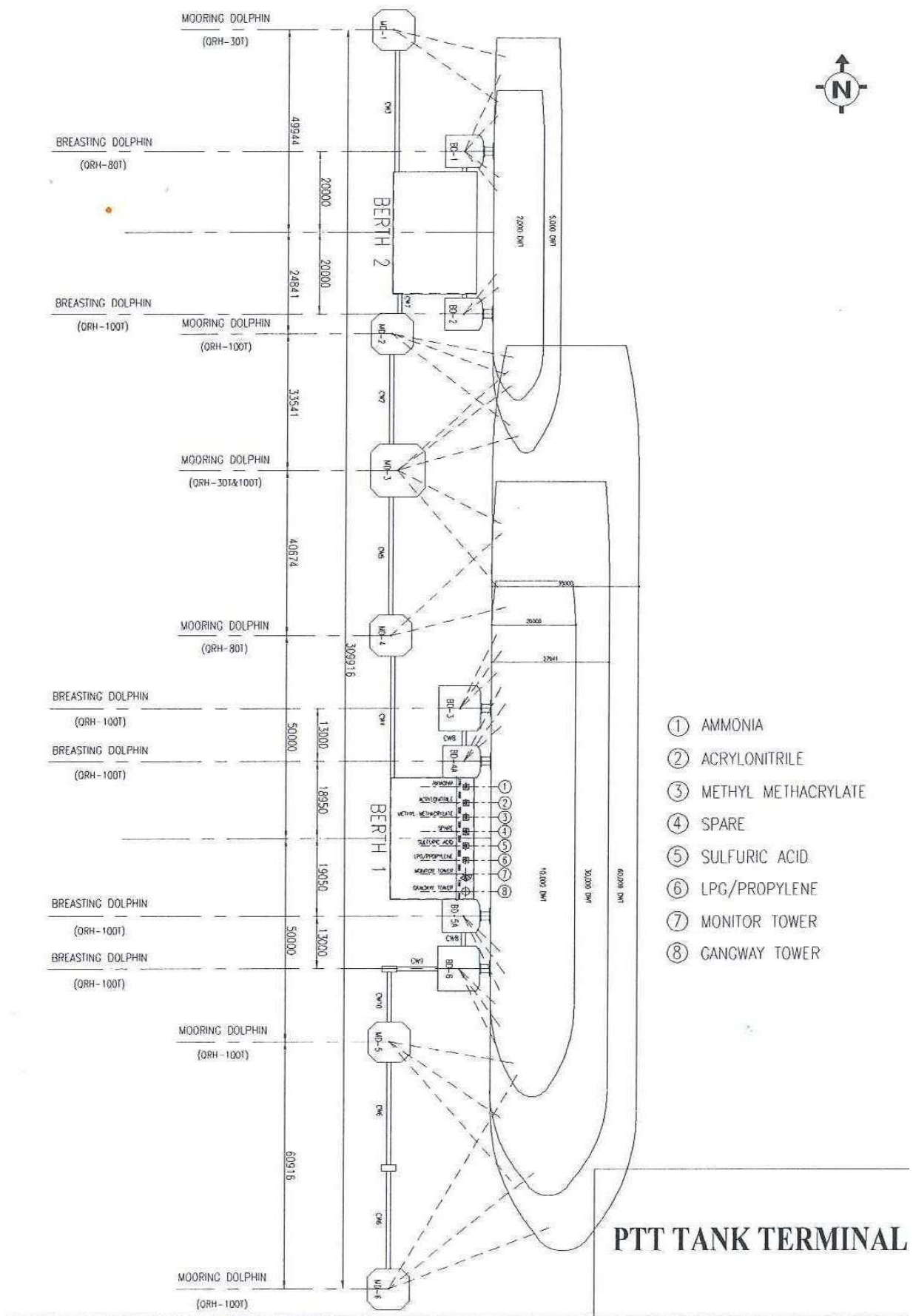
PTTGC



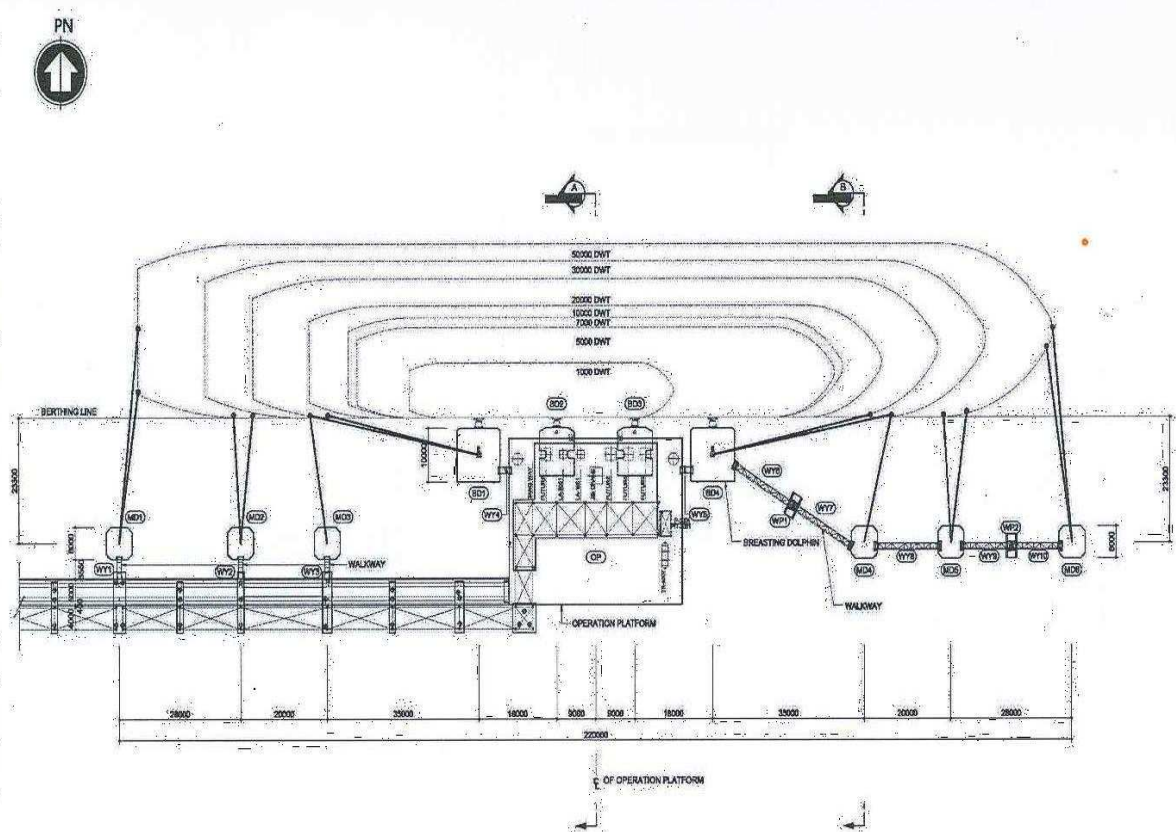
PTT GC Port Layout



PTT LNG Port Layout

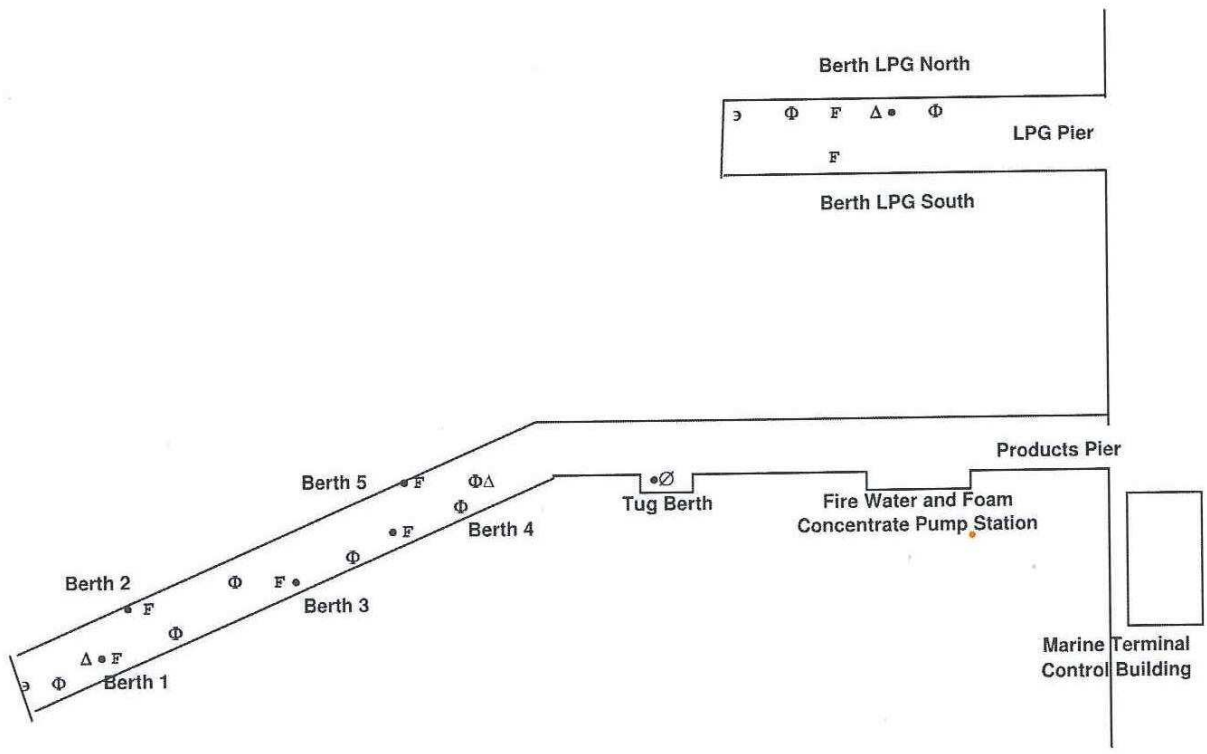


PTT TANK Port Layout



MOORING LINE PLAN  
SCALE 1:400

RTC Port Layout



SPRC Port Layout