

PULAU BUSING - TANKSTORE PTE LTD (OTS)

JETTY	DEPTH A/S(m)	APPROACH DEPTH(m)	MAX LOA(m)	MAX DISPL. (tonnes)	REMARKS
OTS1	16.6	}17.8 from West {(Selat Sinki) }16.6m from East {(Jong Fairway)	360	276,710	Shallower depths of 16.2m, 14.9m exist West of berth.
OTS2	16.8		312	224,475	
OTS3	13.6	7.0 (130 South of berth)	102	17,455	
OTS4	12.2	7.0 (230 South of berth)	126	17,455	
OTS5	14.7	}15.3 m from West {(Selat Sinki)	280	292,940	See Note 5
OTS5E&W	14.7	}15.3 m from East {(Jong Fairway)	140	163,150	See Note 5
OTS6	-	-	-	-	For waterboat
OTS6W	7.3	8.0	120	12,000	
OTS6E	11.0	8.0	120	15,500	
OTS7	15.3	15.3m from west 15.3m from east	280	156,000	See Note 5
OTS8	17.1	16.1 m from west 15.3 m from east	280	156,000	See Note 5
OTS9	17.5	16.1 m from west 15.3 m from east	200	65,000	See Note 5 & 6
OTS10	16.2	16.1 m from west 15.3 m from east	185	61,500	See Note 5 Inner Berth (daylight movements only)

GENERAL INFORMATION

- 1 Controlling depth of the channel is 17.8m and is marked by 4 buoys i.e. Sinki, Pempang, Butir and Busong.
- 2 For berthing of vessels with draft >14.0m, 3 big tugs are recommended.
- 3 For berthing, one mooring boat will be provided for vessels with LOA \leq 200m and 2 mooring boats for vessels with LOA >200m.
- 4 Please note the existence of the Shell (Bukom/Pandan) pipeline located east of jetty OTS2.
- 5 Please note the existence of pipelines located west of jetties OTS9 & 10.
- 6 Vessel's operator, master or person-in-charge, and pilot must immediately contact Port Operations Control Centre if their vessel causes, or is suspected to have caused, any damage to a submarine cable or pipeline or tunnel. Offenders whose vessels damage submarine cables, pipelines and tunnels may be prosecuted.
- 7 The minimum separation distance between vessels at jetties OTS5, 7, 8 & 9 is not to be less than 50m at all times.
- 8 Pilot and terminal's walkie-talkie operating channel: 5

PILOTAGE GUIDELINES

1 BERTHING & UNBERTHING (DAY & NIGHT)

a) Flood & Ebb Tide

OTS 1 & 2 - VLCC (LOA >280m or >75,000GT)

- i) vessel to stem the tidal stream and tidal strength <2.0kt
- ii) 4 big tugs to assist with bollard pull of at least 45 tons each and have backup towline for emergency purpose.
- iii) no movement in Jong Fairway during hours of darkness

2 BERTHING (DAY & NIGHT)

b) Flood Tide

OTS1, 2, 4, 5, 5E&W, 7, 8 & 9

From East

LOA \leq 260m

Draft \leq 14.0m No restriction

Draft >14.0m Tidal strength \leq 1.0kt

LOA >260m to \leq 280m

Draft \leq 12.0m Tidal strength \leq 1.0kt

Draft >12.0m Tidal strength \leq 0.5kt

From West

LOA $\leq 260\text{m}$	No restriction	
LOA $>260\text{m}$ to $\leq 280\text{m}$	Draft $\leq 14.0\text{m}$	No restriction
	Draft $>14.0\text{m}$	Tidal strength $\leq 1.0\text{kt}$

OTS3, 6E & 6W Tidal strength $\leq 1.0\text{kt}$

OTS10 Tidal strength $\leq 1.0\text{kt}$ (Daylight movement only)

b) **Ebb Tide**

OTS1 to 9

From West

LOA $\leq 260\text{m}$	Draft $\leq 14.0\text{m}$	No restriction
	Draft $>14.0\text{m}$	Tidal strength $\leq 1.0\text{kt}$

LOA $>260\text{m}$ to $\leq 280\text{m}$	Draft $\leq 12.0\text{m}$	Tidal strength $\leq 1.0\text{kt}$
	Draft $>12.0\text{m}$	Tidal strength $< 0.5\text{kt}$

From East

LOA $\leq 260\text{m}$	No restriction
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LOA $>260\text{m}$ to $\leq 280\text{m}$	Draft $\leq 14.0\text{m}$	No restriction
	Draft $>14.0\text{m}$	Tidal strength $\leq 1.0\text{kt}$

OTS10 Tidal strength $\leq 1.0\text{kt}$
Day light movement only

3 UNBERTHING (DAY AND NIGHT)

a) **Flood Tide** (Port A/S)

OTS1 to 9

LOA $\leq 260\text{m}$	Draft $\leq 12.0\text{m}$	No restriction
	Draft $>12.0\text{m}$	Tidal strength $\leq 1.0\text{kt}$

LOA $>260\text{m}$ to $\leq 280\text{m}$	Tidal strength $\leq 0.5\text{kt}$
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OTS10 Draft $>12.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$
Day light movement only

b) **Flood Tide** (Starboard A/S)

OTS1, 2,4, 5, 6E, 6W, 5E, 5W, 7 & 8

<u>Out East</u>	No restriction
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Out West

LOA $\leq 260\text{m}$

Draft $\leq 14.0\text{m}$ No restriction

Draft $> 14.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$

LOA $> 260\text{m}$ to $\leq 280\text{m}$

Draft $\leq 12.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$

Draft $> 12.0\text{m}$ Tidal strength $\leq 0.5\text{kt}$

OTS3 No unberthing if OTS6 is occupied

OTS10 Tidal strength $\leq 1.0\text{kt}$
Day light movement only

c) **Ebb Tide** (Port A/S)

OTS1 to 9

Out West

No restriction

Out East

LOA $\leq 260\text{m}$

Draft $\leq 14.0\text{m}$ No restriction

Draft $> 14.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$

LOA $> 260\text{m}$

Draft $\leq 12.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$

Draft $> 12.0\text{m}$ Tidal strength $\leq 0.5\text{kt}$

OTS10 Tidal strength $\leq 1.0\text{kt}$
Day light movement only

d) **Ebb Tide** (Starboard A/S)

OTS1 to 9

LOA $\leq 260\text{m}$

Draft $\leq 12.0\text{m}$ No restriction

Draft $> 12.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$

LOA $> 260\text{m}$ to $\leq 280\text{m}$

Tidal strength $\leq 0.5\text{kt}$

OTS10 Draft $> 12.0\text{m}$ Tidal strength $\leq 1.0\text{kt}$
Day light movement only

TUGS ASSIGNMENT GUIDELINES

Tug Recommendation For Berthing And Unberthing @: Berth 1, 2, 5, 5E&W, 7, 8 & 9.

LENGTH OVERALL OF VESSEL (LOA)	NUMBER OF TUGS	REMARKS
Up to 70 metres	Pilot , in consultation with the master, may order a tug from the tug company nominated by the ship's agent	
71 to 122 metres	1 small tug	A vessel equipped with a suitable bow/stern thruster(s), in good working condition, may dispense with the need for a tug in that position.
123 to 152 metres	2 small tugs	
153 to 180 metres	2 medium tugs	
181 to 220 metres	2 big tugs	
221 to 280 metres	2 big tugs	Pilot , in consultation with the master, may order an additional tug from the tug company nominated by the ship's agent
281 metres and above	4 big tugs	

Tug Recommendation For Berthing And Unberthing @: Berth 3, 4, 6, 6E&W & 10.

LENGTH OVERALL OF VESSEL (LOA)	NUMBER OF TUGS	REMARKS
Up to 70 metres	1 small tug	
71 to 140 metres	2 small tug	A vessel equipped with a suitable bow/stern thruster(s), in good working condition, may dispense with the need for a tug in that position.
141 metres and above	2 medium tugs	

CHARTLET

Chartlet for illustration purposes only, not to be used for navigation. For navigation, mariners are advised to use the appropriate BA nautical charts.

