

HAMAD PORT INFORMATION

Geographical Position	
Latitude	25° 01` 47.88" N
Longitude	51° 35` 36.03" E

Tidal Range & Flow	
Tide Variation	1.5m
Tidal Stream Sets on ebb	22°
Tidal Stream Sets on flood	202°
Average Current Runs	2 to 3.5 kts.
Pier Height from MLLW (Mean Lowest Low Water) or Zero Tide (m)	4.50m(LAT) 2.66m (MLLW)
Berth height from Highest Astronomical Tide)	2.66m

Dock Water Density	
Density	1030 kg

Pilotage and Pilot boarding Ground	
Pilot will board the inbound vessel about	1.5 NM NNE of the FWB in the vicinity of the position 25°10'.7 N, 051°42'.8E
3 new built tugboats	(70 BP/ASD TUGBOATS/ AZIMUTH STERN DRIVE)
Any restriction for entering/leaving berth (Night/Weather/Visibility/	NA
Ballast condition/Propeller immersion/ Max.stern trim/etc)	HW :1.70 / MSL : 0.83 / LW :0.10 LAT :0.88 / MLWS – (+0.54m CD)MHWS – (+2.30m CD)
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/ LAT) / Tide	
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/ LAT)	

Channel/Turning basin/Berth	
Channel length / Width	West channel 6.5 miles/500 m +HAMAD Port channel 5miles /300 meters
Channel depth (Lowest Astronomical Tide or Chart Datum Level : C.D.L)	15 (CD)
U K C (Under Keel Clearance)	1 meters
Bending angle of the channel	About 50 deg from West channel to HAMAD Port channel with width of 1100 m for the turn.
Permitted max draft in the channel	14m
Low Tide and High Tide Draft	14m
Location of Turning basin / Diameter	Close to the GC terminal / 800 m
Depth of Turning basin	17m
Number and Location of Buoys and /or Beacon in the channel	39 channel buoys, breakwater Beacons, and port maring buoys (chart 3789)

Beam distance between Buoys and/or Beacon	West channel 500m, Hamad Port Channel 300m
Advance distance between Buoys and/or Beacon	West channel 1 mil, Hamad Port channel 0.5NM
Transit Line and effectiveness of Transit line for safe navigation during aproaching	N/A
Is there lock gate? If yes, what is Max breadth for passing the lock?	N/A
Character of seabed	Hard limestone
Specific Gravity	1030
Specification of mooring bit (Type/Strength/Interval/Number) / Any storm bits	Tee Bollards/ Twin 150 Tonne / (301A, 301B) AS Pairs..ETC
Specification of Fender (Type/Reaction Load Energy Absorption / Interval/Number)	Super Cone Fenders , 4000 KN

Anchorage for Quarantine and waiting for berth	
Location in Latitude and Longitude	For Vessels more Than 8 meter Draft Lat. 25°17.'4 N Long 051°50'0 E Lat. 25°21'0 N Long 051°50'0 E Lat. 25°17'4 N Long 051°46'4 E Lat. 25°21'0 N Long 051°46'4 E for vessels Less Than 8 meter Draft Lat. 25°21'1 N Long 051°44'27 E Lat. 25°18'0 N Long 051°44'27 E E Lat. 25°21'1 N Long 051°42'28 E minimum 12m - maximum 20m Northern Part Of "A" is Rocks & The Rest Is Mud. length "B" 3 Miles width 2M "A" length 3.65 M Width is 3.2 Miles
Depth of Anchorage	minimum 12m - maximum 20m
Character of seabed	Northern Part Of "A" is Rocks & The Rest Is Mud.
Area size of anchorage	length "B" 3 Miles width 2M "A" length 3.65 M Width is 3.2 Miles

CT1 Terminal Berth	
Length of Jetty	1200 meters
Vessel's side alongside berth	Portside
Number of gantry cranes at berth in different types	8 SPP (Tandem / Twin)
Maximum outreach of gantry cranes	22 Rows (68m)
Maximum height of spreader - Above Rail	46m
SWL under head block	90Ton
SWL under Spreader in tandem lift	80Ton
Rail Span	35m

Minimum number of 40' bays between 2 gantry cranes	1 bay
Lift Above Rail	46m
Lift Below Rail	20m
Total Terminal Ground Slots (TGS)	12776
Full TGS	9570
Reefer TGS	490 (1250 Plugs)
Empty TGS	3206
Yard Stacking Capacity on 5 High	63880
Current Terminal Ground Slots (TGS) (01/01/2020)	Subject to ship freeboard plus 46M spreader height
Current Yard Stacking Capacity on 5 High (01/01/2020)	11486
Maximum Height of containers /Tiers Allowed on Deck	57430

OOG restriction - CT1	
Clearance between crane portal (legs)	Overall 16m (safe clearance 16.5m)
Max height above ISO container	2.25m with frame and 4m without frame
Standard OOG Gate lane width	4.5m
Substitute/Emergency Gate width	5.5m
Single lift ISO container weight	55T
Heavy lift ISO container weight (subject not to exceed Container Maximum Permissible load) Tandem Operations	Quay Crane Coverage
General Note: All OOG handling subject pre approval and exceptions will be handled on case	40T

EQUIPMENT LIST	
ITEM	
STS - Ship to Shore Gantry	8
RTG - Rubber Tyred Gantry	26
FORKLIFT:	
Reach stacker (45 tonnes)	4
Empty container handler (9 tonnes)	10
Heavy duty forklift (45 tonnes)	1
Light duty forklift (5 tonnes)	5
Light duty forklift (4 tonnes)	5
Light duty forklift (4 tonnes, low profile)	1
Light duty forklift (3 tonnes)	8
Light duty forklift (2 tonnes)	1
Light duty forklift (1.5 tonnes)	4

TRACTOR:	
Terminal tractor	62
MAFI	6

TRAILER	
Bomb cart	62

Quay Crane Coverage		
QC No.	Max North Bollard South Bollard	Max
QC-1	102~103	122
QC-2	103~104	124
QC-3	104~105	130
QC-4	105~106	132
QC-5	106~107	138
QC-6	110	140
QC-7	115	148
QC-8	122	149

NO AIRDRAFT RESTRICTION

CT1 Terminal Berth Information

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Length of Jetty	1200 meters
Vessel's side alongside berth	Portside
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MAFI	6

TRAILER	
Bomb cart	62

Quay Crane Coverage	
QC No.	Max North Bollard Max South Bollard
QC-1	102~103 122
QC-2	103~104 124
QC-3	104~105 130
QC-4	105~106 132
QC-5	106~107 138
QC-6	110 140
QC-7	115 148
QC-8	122 149

NO AIRDRAFT RESTRICTION

GCT- GENERAL CARGO TERMINAL

Geographical Position	
Latitude	25° 01` 47.88" N
Longitude	51° 35` 36.03" E
Tidal Range & Flow	
Tide Variation	1.5m
Tidal Stream Sets on ebb	22°
Tidal Stream Sets on flood	202°
Average Current Runs	2 to 3.5 kts.
Pier Height from MLLW (Mean Lowest Low Water) or Zero Tide (m)	4.50m(LAT) 2.66m (MLLW)
Berth height from Highest Astronomical Tide)	2.66m
Dock Water Density	
Density	1030 kg
Pilotage and Pilot boarding Ground	
Pilot will board the inbound vessel about	1.5 NM NNE of the FWB in the vicinity of the position 25°10'.7 N, 051°42'.8E
Tugboats (Horse power/Type of propeller)	(4598HP/ASD TUGBOATS/ AZIMUTH STERN DRIVE)
Any restriction for entering/leaving berth (Night/Weather/Visibility/ Ballast condition/Propeller immersion/ Max.stern trim/etc)	NA
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/LAT) / Tide	HW :1.70 / MSL : 0.83 / LW :0.10 LAT :0.88 / MLWS – (+0.54m CD)
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/LAT)	MHWS – (+2.30m CD)
Channel/Turning basin/Berth	
Channel length / Width	west channel 6.5 miles/500 m +HAMAD Port channel 5miles/300 meters
Channel depth (Lowest Astronomical Tide or Chart Datum Level : C.D.L)	15 (CD)
U K C (Under Keel Clearance)	1 meters
Bending angle of the channel	about 50 deg from West channel to HAMAD Port channel with width of 1100 m for the turn.
Permitted max draft in the channel	14m
Location of Turning basin / Diameter	close to the GC terminal / 800 m
If Max draft is limited less than 10m, confirm possibility to utilize high tide and Max draft at high tide.	NA
Depth of Turning basin	17m
Number and Location of Buoys and /or Beacon in the channel	39 channel buoys, breakwater Beacons, and port maring buoys (chart 3789)
Beam distance between Buoys and/or Beacon	west channel 500m, Hamad Port Channel 300m
Advance distance between Buoys and/or Beacon	west channel 1 mil, Hamad Port channel 0.5NM
Transit Line and effectiveness of Transit line for safe navigation during approaching	NA
Is there lock gate? If yes, what is Max breadth for passing the lock?	NA

Character of seabed	Hard limestone	
Specific Gravity	1030	
Specification of mooring bit (Type/Strength/Interval/Number) / Any storm bits	Tee Bollards/ Twin 150 Tonne / (301A, 301B) AS Pairs..ETC	
Specification of Fender (Type/Reaction Load Energy Absorption/ Interval/Number)	Super Cone Fenders , 4000 KN	
Anchorage for Quarantine and waiting for berth		
Location in Latitude and Longitude	for vessels more Than 8 meter Draft Lat. 25°17.'4 N Long 051°50'0 E Lat. 25°21'0 N Long 051°50'0 E Lat. 25°17'4 N Long 051°46'4 E Lat. 25°21'0 N Long 051°46'4 E for vessels Less Than 8 meter Draft Lat. 25°21'1 N Long 051°44'27 E Lat. 25°18'0 N Long 051°44'27 E Lat. 25°21'1 N Long 051°42'28 E Lat. 25°19'0 N Long 051°33'68 E	
Depth of Anchorage	minimum 12m - maximum 20m	
Character of seabed	Northern Part Of "A" is Rocks & The Rest Is Mud.	
Area size of anchorage	length "B" 3 Miles width 2M "A" length 3.65 M Width is 3.2 Miles	
GCT Terminal		
Length of Jetty	700 meters / 3 vessels at a time (will be extended to 1200 m in Q 1st 2017)	
Vessel's side alongside berth	Any side	
Depth of water in front of berth (Lowest Astronomical Tide or Chart Datum Level : C.D.L	17 m (LAT)	
Max acceptable wind velocity (m/sec) at Berthing/Unberthing	10.288m/sec	
Designed type of vessel and Max DWT of berth	156,907 T	
Max draft at Berth	15 m	
Strength of Pier surface (ton/m2) / Acceptable H/H cargo operation	10 t/m2	
ITEM		
	QUANTITY (Current)	QUANTITY (April 2017)
MHC (Liebherr Cranes) 100 tons	3	
Tandano Crane 55 tons	1	
FORKLIFT:		
Caterpillar 7 tons	3	
Caterpillar 5 tons	3	
Caterpillar 3 tons	1	
TRACTOR:		
Terberg 80 tons	11	
MAFI & LOW BED TRAILER		
Mafi 100 tons	2	
Mafi 80 tons	13	
Roll Trailer 80 tons	9	

RORO TERMINAL

Geographical Position	
Latitude	25° 01` 47.88" N
Longitude	51° 35` 36.03" E
Tidal Range & Flow	
Tide Variation	1.5m
Tidal Stream Sets on ebb	22°
Tidal Stream Sets on flood	202°
Average Current Runs	2 to 3.5 kts.
Pier Height from MLLW (Mean Lowest Low Water) or Zero Tide (m)	4.50m(LAT) 2.66m (MLLW)
Berth height from Highest Astronomical Tide)	2.66m
Dock Water Density	
Density	1030 kg
Pilotage and Pilot boarding Ground	
Pilot will board the inbound vessel about	1.5 NM NNE of the FWB in the vicinity of the position 25°10'.7 N, 051°42'.8E
Tugboats (Horse power/Type of propeller)	(4598HP/ASD TUGBOATS/ AZIMUTH STERN DRIVE)
Any restriction for entering/leaving berth (Night/Weather/Visibility/ Ballast condition/Propeller immersion/ Max.stern trim/etc)	NA
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/LAT) / Tide	HW :1.70 / MSL : 0.83 / LW :0.10 LAT :0.88 / MLWS – (+0.54m CD)
(HAT/CDL/MHWS/MHWN/MSL/MLWN/MLWS/LAT)	MHWS – (+2.30m CD)
Channel/Turning basin/Berth	
Channel length / Width	west cghannel 6.5 miles/500 m +HAMAD Port channel 5miles/300 meters
Channel depth (Lowest Astronomical Tide or Chart Datum Level : C.D.L)	15 (CD)
U K C (Under Keel Clearance)	1 meters
Bending angle of the channel	about 50 deg from West channel to HAMAD Port channel with width of 1100 m for the turn.
Permitted max draft in the channel	14m
Location of Turning basin / Diameter	close to the GC terminal / 800 m
If Max draft is limited less than 10m, confirm possibility to utilize high tide and Max draft at high tide.	NA
Depth of Turning basin	17m
Number and Location of Buoys and /or Beacon in the channel	39 channel buoys, breakwater Beacons, and port marking buoys (chart 3789)
Beam distance between Buoys and/or Beacon	west channel 500m, Hamad Port Channel 300m
Advance distance between Buoys and/or Beacon	west channel 1 mil, Hamad Port channel 0.5NM
Transit Line and effectiveness of Transit line for safe navigation during approaching	NA

Is there lock gate? If yes, what is Max breadth for passing the lock?	NA
Character of seabed	Hard limestone
Specific Gravity	1030
Specification of mooring bit (Type/Strength/Interval/Number) / Any storm bits	Tee Bollards/ Twin 150 Tonne / (301A, 301B) AS Pairs..ETC
Specification of Fender (Type/Reaction Load Energy Absorption/ Interval/Number)	Super Cone Fenders , 4000 KN
Anchorage for Quarantine and waiting for berth	
Location in Latitude and Longitude	for vessels more Than 8 meter Draft Lat. 25°17.'4 N Long 051°50'0 E Lat. 25°21'0 N Long 051°50'0 E Lat. 25°17'4 N Long 051°46'4 E Lat. 25°21'0 N Long 051°46'4 E for vessels Less Than 8 meter Draft Lat. 25°21'1 N Long 051°44'27 E Lat. 25°18'0 N Long 051°44'27 E Lat. 25°21'1 N Long 051°42'28 E Lat. 25°19'0 N Long 051°33'68 E
Depth of Anchorage	minimum 12m - maximum 20m
Character of seabed	Northern Part Of "A" is Rocks & The Rest Is Mud.
Area size of anchorage	length "B" 3 Miles width 2M "A" length 3.65 M Width is 3.2 Miles
RORO (CT3) Terminal	
Length of Jetty	CT3 - 900 m
Vessel's side alongside berth	Starboard side
Depth of water in front of berth (Lowest Astronomical Tide or Chart Datum Level : C.D.L	17 m (LAT)
Max acceptable wind velocity (m/sec) at Berthing/Unberthing	10.288m/sec
Designed type of vessel and Max DWT of berth	156,907 T
Max draft at Berth	15 m
Total capacity of car storage yard	Total Yard Area = 180,000 m2 (18 hectare)
Max car storage capacity	2,550 SUV units