



PORT INFORMATION



PORT OF PONTA DA MADEIRA

Operated by Vale, a Brazilian mining company that is one of the largest producers of iron ore in the world.

Address: Av. dos Portugueses, 11225-11213, São Luís - MA

Postal code: 65085-582

UN/LOCODE: BRPMA



ZYON
SHIPPING AGENCY

1. INTRODUCTION



Located in the Brazilian state of Maranhão, the Port of Ponta da Madeira is a significant seaport renowned for its role in iron ore exports. Operated by Vale, a major Brazilian mining company, the port holds a crucial position among the country's ports. Its geographic coordinates are approximately 2.5589° S latitude and 44.2837° W longitude.

PDM is equipped to handle iron ore exports, SHINC ATDN, while adhering to the maneuvering and anchorage guidelines set by the Harbor Master of the state of Maranhão.

The channel at the Port of Ponta da Madeira has a minimum depth of 23.00m in the narrowest sectors, except for the area between light buoys 17 and 22, which has been dredged to a depth of 25.00m to accommodate larger vessels.

Ponta da Madeira Port Complex is located on the east bank of São Marcos Bay, on the island of São Luís, with the following coordinates for the docks:

- Pier 1:** Lat 02° 34.0' S / Long 044° 23.0' W;
- Pier 3S:** Lat 02° 33.7' S / Long 044° 22.75' W;
- Pier 3N:** Lat 02° 33.4' S / Long 044° 22.45' W;
- Pier 4S:** Lat 02° 33.16' S / Long 044° 22.46' W; and
- Pier 4N:** Lat 02° 33.00' S / Long 044° 22.40' W.

1.1 Nautical charts

Nautical Charts - 400, 411, 412, 413, and 414 from the Brazilian Navy Hydrographic Center (DHN); BA-535 and BA-543 from the British Admiralty.

1.2 Characteristics of piers

PIER	PIER LENGHT	BREADTH	DEPTH	DWT	MAX DRAFT	MAX BEAM	MAX. LOA	FW
1	490M	48M	23.50M	420,000	23M	65M	365M	YES
3S	315M	48M	23M	420,000	21M	66M	365M	YES
3N	280M	45M	23M	180,000	21M	45M	292M	YES
4S	510M	66M	25M	420,000	23M	66M	365M	YES
4N	510M	66M	25M	420,000	23M	66M	365M	YES





1.3 Port equipment and shore facilities

1.3.1 Pier I

The facility features a linear-style ship loader that has a rated loading capacity of 16,000.00 mt/hour, a maximum outreach of 46.30 m, and a conveyor belt that measures 2.20 meters in width.

The loading rate for the different types of cargo is as follows:

Iron ore: Approximately 12,000.00 mt per hour

Manganese: Approximately 9,000.00 mt per hour

1.3.2 Pier III

The Pier III terminal consists of a North and South side, each equipped with three linear-style ship loaders. These loaders have a normal capacity of 8,000.00 mt per hour each, with a maximum outreach of 36.00 m, and a conveyor belt width of 1.80 m.

The loading rate for each type of cargo is approximately 6,000 mt per hour for both iron ore and manganese ore.

1.3.3 Pier IV

The terminal Pier IV is composed by South and North sides. Pier IV North and South are equipped with two linear type ship loaders with a nominal loading capacity of 16,000.00 mt/hour each with a max outreach of 46.30 m and a conveyor belt with width of 2.20 meters. The ship loaders do not work simultaneously.

The loading rates for each type of cargo are approximately 12,000.00 mt per hour for iron ore and 9,000.00 mt per hour for manganese.

2. ANCHORAGE AREAS

São Marcos Bay presents challenges for anchorage due to its unsuitable bottom conditions, which are exacerbated by the strong currents that can reach up to 6 knots during high and low tides. These factors have led to incidents of vessels losing their anchors and running aground on the numerous sandbanks and shallow areas of the bay. To mitigate these risks, the Port Authority advises captains to ensure that their crews are on duty and properly trained to carry out emergency maneuvers while anchoring their vessels.

**“ Anchorage is not allowed in the maneuver area,
nor at the entire extension of the port's access channel”**



RECOMMENDED ANCHORAGE AREAS				
NAME	LOCATION			REMARKS
	Points	Lat (S)	Long (W)	
ONE (01)	A	01°58'5	044° 07,0'	Vessels on dispute; Vessels undergoing huge repairs; Vessels over 80,000 DWT and draft of more than 11 meters.
	B	01°55,5	044° 09,0'	
	C	01°49,2'	043°58,4'	
	D	01°51,8'	043°56,5	



RECOMMENDED ANCHORAGE AREAS				
NAME	LOCATION			REMARKS
	Points	Lat (S)	Long (W)	
TWO (02)	A	02°02,9'	044°03,4'	For ships with drafts of 20 m or more. Pay close attention to the underwater cables in the west sector of this area.
	B	02°05,4'	044°03,4'	
	C	02°06,0'	044°07,2'	
	D	02°04,4'	044°06,1'	
THREE (03)	A	02°08,3'	044°08,7'	For ships with drafts of 20 m or more. Pay close attention to the underwater cables in the west sector of this area.
	B	02°10,9'	044°09,1'	
	C	02°12,1'	044°10,0'	
	D	02°12,1'	044°11,0'	
FOUR (04)	A	02°19,2'	044°12,2'	Vessels under 80,000 DWT and draft of more than 11 meters.
	B	02°21,4'	044°09,8'	
	C	02°24,4'	044°12,8'	
	D	02°27,4'	044°17,2'	
	E	02°26,6'	044°19,4'	
FIVE (05)	A	02°22,2'	044°20,3'	Vessels under 80,000 DWT and draft of more than 11 meters.
	B	02°25,0'	044°21,3'	
	C	02°24,4'	044°22,2'	
	D	02°20,1'	044°20,4'	

- Anchorage area #7

To anchor in this area, it is necessary to obtain express authorization from the Port Authority, and additional safety measures are required during the request process.

3. PILOTAGE

All ships maneuvering to berth or depart from any berths at the Port of Itaipava must have a pilot on board as it is mandatory.

3.1 Pilot boarding zone

The designated zone for the pilot to embark and disembark from the ship is situated 1.2 miles west of the Medo Island lighthouse or any other location specified in the nautical chart DHN 412.

3.2 Pilotage communication

VHF channels 14 and 16



4. WATER DENSITY

The water density at Ponta da Madeira varies as follows (all figures are approximate):
Dry Season:

Low tide: 1,022 g/l (BW)

High tide: 1,024 g/l (BW)

Rainy Season:

Low tide: 1,014 g/l (BW)

High tide: 1,015 g/l (BW)

5. WEATHER CONDITIONS

Maranhão is subject to multiple tropical climatic patterns, each with varying amounts of rainfall and vegetation coverage. The state has a warm, semi-humid tropical climate, with average temperatures hovering around 26.7°C. The temperature range in the state's capital city, São Luís, and coastal regions fluctuates between 23.4°C (during winter) and 31°C (during summer), creating favorable weather conditions for the Port of Itaqui and surrounding areas.



OUR FULL STLE

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