PORT OF BEIRA - PORT INFORMATION

The following information provides an overview of the Port of Beira as well as relevant maritime information useful in preparation for berthing and operations at the Port.

The Port of Beira is the second largest port in Mozambique, located on the East African coast (Indian Ocean), 20 km from the open sea. Situated at the mouth of the Pungue River at Longitude 34º 50' E and Latitude 19º 50' S, the Port of Beira is primarily a transit gateway, handling import and export cargoes from Zimbabwe, Malawi, Zambia and other countries in the region. The port handles a wide variety of traffic, including containers, break bulk, general cargo, ro-ro, wet and dry bulks.

Approach Channels and Anchorages

The Port of Beira is a tide-bound harbour with HW springs ranging from 6.2m to 7.4m. Vessels waiting for berthing instructions anchor east of the outer channel. The approach to the Pungue River is obstructed by the sand banks and shoals, which are constantly moving.

From the east end of the Macuti Channel (Buoy), the channel is marked by light buoys up to the river’s entrance near the port.

Access is made through the 135m-wide dredged Macuti Channel, with an actual minimum depth of 5.5m below the chart datum in the Macuti curve.

The maximum accepted draft is obtained by adding 4.3m to the height of the tide at that moment. This includes a safety margin of 1.2m of the keel clearance.

Channel Specification
Channel width from the PAPA Buoy (P Buoy) to Buoy 6A is 200m minimum; from 6A to Buoy 7 is less than 100m. The length of the channel is 12 nautical miles from P Buoy up to the river’s entrance. The outer channel from A up to P Buoy is 6 nautical miles.

Vessels with maximum draft of 4.5m may enter the port at any state of the tide. Deeper lying vessels are required to wait for a suitable height of tide to enter the port.
**Anchorage/Navigation aids**

Navigation aids are:

- The landing buoy ALPHA equipped with a RACON Beacon and light signal at the southeast end of the outer channel.
- Macuti lighthouse with a height of 36m, situated 9 miles north west from the ALPHA Buoy at latitude 19° 51’ S and longitude 34° 54’ E, painted red and white, F1(3)10 sec.
- The channel is marked by green and red buoys according to the international lateral system of buoyage.

Large vessels anchor parallel to the outer channel, no more than 2 miles east of the outer channel and at a distance of not less than 3 miles from P Buoy. Vessels with draft of maximum 26 feet (7.92m) anchor at minimum distance of 2 miles east of the P buoy.

An inner anchorage is situated near Buoy 10, which gives protection to vessels of up to 6.5m draft in spring tides and 7.0m in neap tides. The holding ground is poor and care should be given especially in heavy weather with westerly winds.

The Port of Beira is open 24 hours a day. Max vessel size is 200m LOA and up to 8.0m draft at high water. Night navigation is restricted to vessels up to 140m LOA and/or 7.0m draft in line with the pilotage rules relating to tidal currents, weather and lighting conditions of the buoys.
## PORT OF BEIRA - PORT INFORMATION

Position and characteristics of sea buoys

<table>
<thead>
<tr>
<th>Buoy no.</th>
<th>Colour</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Red</td>
<td>19°52'46.4371&quot;</td>
<td>034°57'23.0277&quot;</td>
<td>F1 R3S</td>
</tr>
<tr>
<td>A</td>
<td>Red/white</td>
<td>19°55'58.6313&quot;</td>
<td>035°02'56.0833&quot;</td>
<td>W 8S</td>
</tr>
<tr>
<td>1</td>
<td>Green</td>
<td>19°52'47.2680&quot;</td>
<td>034°52'35.5687&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
<td>19°52'47.5312&quot;</td>
<td>034°55'21.1652&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
<td>19°53'02.8897&quot;</td>
<td>034°51'50.2669&quot;</td>
<td>F1 R5S</td>
</tr>
<tr>
<td>3A</td>
<td>Green</td>
<td>19°53'41.8658&quot;</td>
<td>034°50'53.3996&quot;</td>
<td>F1 R3S</td>
</tr>
<tr>
<td>3B</td>
<td>Green</td>
<td>19°53'35.1575&quot;</td>
<td>034°51'08.1311&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>3C</td>
<td>Green</td>
<td>19°53'19.7300&quot;</td>
<td>034°51'12.6310&quot;</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Red</td>
<td>19°52'37.9602&quot;</td>
<td>034°53'41.0734&quot;</td>
<td>F1 R5S</td>
</tr>
<tr>
<td>5</td>
<td>Green</td>
<td>19°53'43.3210&quot;</td>
<td>034°50'33.0638&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>5A</td>
<td>Green</td>
<td>19°53'24.900&quot;</td>
<td>034°50'03.8900&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>6</td>
<td>Red</td>
<td>19°53'28.5912&quot;</td>
<td>034°51'18.9307&quot;</td>
<td>F1 R3S</td>
</tr>
<tr>
<td>6A</td>
<td>Red</td>
<td>19°53'15.3726&quot;</td>
<td>034°51'24.9371&quot;</td>
<td>Q F1(3)6S</td>
</tr>
<tr>
<td>7</td>
<td>Green</td>
<td>19°52'57.1158&quot;</td>
<td>034°49'46.7983&quot;</td>
<td>F1 G5S</td>
</tr>
<tr>
<td>8</td>
<td>Red</td>
<td>19°53'41.1924&quot;</td>
<td>034°49'58.7363&quot;</td>
<td>F1 (2)R6S</td>
</tr>
<tr>
<td>8A</td>
<td>Red</td>
<td>19°53'47.1261&quot;</td>
<td>034°51'16.0756&quot;</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Green</td>
<td>19°52'11.990&quot;</td>
<td>034°49'30.540&quot;</td>
<td>F1 R3S</td>
</tr>
<tr>
<td>10</td>
<td>Red</td>
<td>19°50'44.6646&quot;</td>
<td>034°49'13.7526&quot;</td>
<td>F1 R5S</td>
</tr>
<tr>
<td>11</td>
<td>Green</td>
<td>19°51'29.300&quot;</td>
<td>034°49'23.090&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>13</td>
<td>Green</td>
<td>19°51'00.2265&quot;</td>
<td>034°49'18.5135&quot;</td>
<td>F1 G2S</td>
</tr>
<tr>
<td>W</td>
<td>Red</td>
<td>19°49'58.5725&quot;</td>
<td>034°49'35.3888&quot;</td>
<td>F1 R3S</td>
</tr>
<tr>
<td>T</td>
<td>Red</td>
<td>19°47'49.1273&quot;</td>
<td>034°49'32.4828&quot;</td>
<td></td>
</tr>
</tbody>
</table>
PORT OF BEIRA - PORT INFORMATION

Port Operations

**Working Hours:** 365 days a year, 24 hours/day.

**Office Hours:** 07.30-17.30

**Time Zone:** GMT/UTC +2 hours.

Pilotage
The Port of Beira is equipped with a pilot boat and a line boat, available 24 hours a day. Pilotage is compulsory at all times and advanced notice is required 72 hours before arrival via fax number 23-329 803 (Control Tower) or 23-329 805 Harbour Master’s office. Pilots board vessels in normal weather conditions near Buoy 2. Exception is given to national fishing vessels and coastal vessels with special permission. In the latter case the arrival announcement of the vessel passing the ALPHA Buoy is compulsory via VHF channel 12, and entrance is only allowed with permission from the Beira Port Control Tower.

Towage
Tug assistance is compulsory at all times. The Port of Beira is served by two 2,200bhp, 35T bollard pull tugs, available 24 hours a day.

Arrivals
Vessels should advise the Beira Port Control of their ETA, draft and LOA 72, 48 hours and 1 hour prior to arrival at ALPHA Buoy at the seaward entrance channel.

Radio/Beira Port Control
Berthing/unberthing operations – VHF Channel 6, 11 and 14
Beira Port Control – VHF Channel 12
Emergency situations/first call to Beira Port Control Tower – VHF Channel 16

Beira Port Control is equipped with an HF trans-receiver working in a frequency of 2182 KHz, also radio Cape Town and Inmarsat are recommended for passing messages at long range.
PORT OF BEIRA - PORT INFORMATION

Tugs, pilot boat and line boat can be called on VHF Channel 16 in emergency situations only, otherwise via the Port Control Tower on VHF Channel 12.

Berths

<table>
<thead>
<tr>
<th>Berth</th>
<th>Length (m)</th>
<th>Draft (m)</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>176.77</td>
<td>-</td>
<td>Fishing Harbour</td>
</tr>
<tr>
<td>2-4</td>
<td>484</td>
<td>12</td>
<td>Container Terminal/Ro-Ro</td>
</tr>
<tr>
<td>5</td>
<td>161.53</td>
<td>12</td>
<td>Container Terminal/Ro-Ro</td>
</tr>
<tr>
<td>6</td>
<td>170</td>
<td>10</td>
<td>Refrigerated Cargo/Fresh Produce/Pax</td>
</tr>
<tr>
<td>7</td>
<td>165.5</td>
<td>10</td>
<td>General Cargo Terminal</td>
</tr>
<tr>
<td>8</td>
<td>187.9</td>
<td>10</td>
<td>Coal Terminal</td>
</tr>
<tr>
<td>9</td>
<td>167.3</td>
<td>10</td>
<td>General Cargo Terminal/Ro-Ro</td>
</tr>
<tr>
<td>10</td>
<td>167.3</td>
<td>10</td>
<td>General Cargo Terminal/Ro-Ro/Pax</td>
</tr>
<tr>
<td>11</td>
<td>128.55</td>
<td>10</td>
<td>Oil Terminal</td>
</tr>
<tr>
<td>12</td>
<td>264</td>
<td>12</td>
<td>Oil Terminal</td>
</tr>
</tbody>
</table>
PORT OF BEIRA - PORT INFORMATION

Port Services
The Port offers most services required by ocean-going vessels. Ships requiring services should advise their agent in advance of arrival.

Bunkering
Fuel and lubricating oils available by road tanker.

Fresh Water
Available at most berths by road tanker.

Waste Disposal
Available, contact via ships agent.

Shipchandlers
Available, contact via ships agent.

Drydock and Shiprepair
The Beiraneve Shipyards has a small dry dock for vessels up to 110m LOA. Mechanical, plate, pipe and electrical workshops are also available.
**PORT OF BEIRA - PORT INFORMATION**

**Port Facilities**
The Port of Beira has 12 berths stretching over a total length of 1,994m, excluding berth number 1, which is used as a fishing harbour. The port has a Container Terminal and a General Cargo Terminal, both of which are operated by concessionaire Cornelder de Moçambique, as well a facility for handling liquid bulks.

Cornelder de Moçambique utilises a computerised Port Management System, offering clients real-time cargo status information via the internet.

**Multi Purpose Container Terminal**
The Multi Purpose Container Terminal encompasses 645m of berth length (Berths 2, 3, 4 and 5) and has a design capacity of 100,000 teus per year.
- 200,000m² container yard, accommodating 3,117 teus
- 144 electrical reefer points
- dedicated IMDG dangerous goods storage area
- 8,400 m² secure bonded transit warehouse for stuffing and stripping containers
- 3,650 m² covered storage area
- Dedicated granite storage area

**General Cargo Terminal**
The General Cargo Terminal covers 670m of berth length (Berths 6, 7, 9 and 10) and has a design capacity of 2,300,000 metric tons per year.
- Five covered warehouses totalling 15,000m²
- 12,000 m² paved open space for ferrochrome, granite, steel and other break bulk cargoes
- 175,000 m² storage extension area for expansion

**Oil Terminal**
The Port of Beira’s oil terminal encompasses Berths 11 and 12. Berth 11 handles heavy oils and can accommodate tankers up to 20,000 DWT. It is equipped with a pipeline system (4 x 12 inch for unloading, 6 x 8 inch for loading) with a capacity of 400 tonnes per hour.
Berth 12, located further upstream, handles refined products such as diesel, petrol, aviation fuel (Jet A1 & Avgas) and fuel oil and can accommodate tankers up to 60,000 DWT. This terminal has an annual capacity of 2.5 million tonnes.

Cargo Handling Equipment

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship to shore gantry cranes</td>
<td>4</td>
<td>40T (50T hook lift)</td>
</tr>
<tr>
<td>Rail-mounted transtainer</td>
<td>1</td>
<td>40T (50T’ hook lift)</td>
</tr>
<tr>
<td>Mobile cranes</td>
<td>2</td>
<td>35T &amp; 45T</td>
</tr>
<tr>
<td>Reach stackers</td>
<td>14</td>
<td>45T</td>
</tr>
<tr>
<td>Empty Container Handlers</td>
<td>4</td>
<td>7-10T</td>
</tr>
<tr>
<td>Large forklifts</td>
<td>3</td>
<td>32-45T</td>
</tr>
<tr>
<td>Small forklifts</td>
<td>14</td>
<td>3-10T</td>
</tr>
<tr>
<td>Timber loader</td>
<td>1</td>
<td>12T</td>
</tr>
<tr>
<td>Bagging units – grain</td>
<td>4</td>
<td>325MT/WWD*</td>
</tr>
<tr>
<td>Bagging units – fertilizer</td>
<td>2</td>
<td>325MT/WWD*</td>
</tr>
<tr>
<td>Terminal Tractors</td>
<td>35</td>
<td>60T</td>
</tr>
<tr>
<td>Weighbridge</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1</td>
<td>1600 KVA</td>
</tr>
</tbody>
</table>

*WWD = Weather Working Day
Transport Infrastructure

Airport
Beira Airport, 12 km from the port, has scheduled air services to Maputo, Harare (Zimbabwe) and Johannesburg (RSA).

Road
Beira is 319km by road from the Zimbabwe border at Machipanda and 685km from Malawi via Nova Vanduzi.

Rail
The Port of Beira is rail-connected through Mozambique Ports and Railways – Portos e Caminhos de Ferro de Moçambique (CFM). The Machipanda Line connects to Zimbabwe and Zambia. The Sena line linking Beira with the Tete Province and Malawi is currently being rehabilitated.

Ferry
A ferry service operates to other small harbours along the Mozambique coast, including Buzi, Sofala, Chiloane, Machanga, Nova Mambone.

Pipeline
An oil pipeline runs from the Port of Beira to Feruka Oil Refinery in Mutare, Zimbabwe.
PORT OF BEIRA - PORT INFORMATION

OTHER USEFUL INFORMATION

ISPS CODE PRE-ARRIVAL INFORMATION

Below is listed all the pre-arrival security information required from all ships calling at the Port of Beira.

Pre-Arrival information must be made available by the vessel’s Master and or Chief Officer to the Agent and Jetty Terminal and Port Officials a minimum of 96 hours prior to vessel’s arrival Beira Roads. In addition, the ship Security Certificate and Declaration of Security should be made available to the Agent, Terminal and Port Authorities 96 hours prior to arrival of the ship.

A) SHIP'S DETAILS
1. Vessel's Name
2. Port of Registry
3. Call Sign
4. IMO Number
5. Type of Vessel
6. Estimated date and time of arrival.

B) VOYAGE DETAILS
1. Day, month and time the report is made
2. First Mozambique Port of call
3. Last Port of call
4. Next Port of call

C) SECURITY DETAILS
1. Security level the vessel is operating
2. Name and Rank of the Ship Security Officer (SSO)
3. Name of Company Security Officer (CSO)
4. Contact details of CSO
5. Crew List
6. Passenger List
7. List of any other persons on board
D) DESCRIPTION OF CARGO

1. Cargo
2. IMDG Classes of Cargo on board
3. Hazardous Cargoes

Following are the documents required for Free Pratique on berthing:

- 5 copies ship’s particulars
- 6 copies crew lists
- 5 copies voyage memo
- 5 copies of list of last port of call
- 2 copies last port clearance + original
- 2 copies provision and stores list
- 2 copies crew effects declaration
- 5 copies passengers / stowaways / plants / animals and/or Nil lists
- 2 copies vaccination list
- 2 copies maritime declaration

If you require any additional information please contact operations@delagoasl.com

Delagoa Shipping & Logistics, Lda
Beira Branch Office
Cnr. Armando Tivane &
Gen.Viera da Rocha Avs,
2nd Floor, Apart No. 17