



# NEW CONTAINER TERMINAL, Walvis Bay

(Owner's Engineer : Civil & Electrical Works)

## PROJECT STATS

<b>Value</b>	NAD 4 billion USD 246.28 million (ROE 16.24)
<b>Location</b>	Walvis Bay, Namibia
<b>Client</b>	Namibian Port Authority
<b>Start</b>	02/2012
<b>Finish</b>	08/2019



## SERVICES

Project Management  
 Technical Specifications for EPC Contract  
 Contract Documentation  
 Risk Management  
 Management of Pre-Qualification Tender Process  
 Management of EPC Tender Process  
 Site Supervision – Assistant Resident Engineering Services, seconded to Client

Project Management

Civil

Electrical

Namport is expanding its port at Walvis Bay by the addition of a new container terminal. The expansion is to cater for vessels with capacity of 5 000 to 8 000 TEUs. The port development is taking place in three phases, through the reclamation of land into the bay, namely:

**Phase 1** -40 hectares, 600 m quay length (commissioned 24 August 2019)

**Phase 2** - 27.5 hectares, 550 m quay length (future)

**Phase 3** - 60 hectares, 1200 m quay length (future)

The Phase 1 expansion adds a throughput capacity of at least 750 000 TEUs per annum to existing volumes.

With a quay length of 600 m, this new berth will be able to accommodate a 5 000 TEU container vessel.

The entrance channel, turning basin and the berthing bay had to be dredged to accommodate this vessel's draught, which averages around-12.5m.

The following container handling equipment was commissioned with Phase 1:

- Four Ship-to-Shore Cranes, post Panamax size, to handle vessels that stow containers up to 18 TEUs wide
- Rubber Tire Gantry cranes and miscellaneous smaller support equipment such as reach stackers, tractors and haulers and empty container handlers.

The new container terminal is constructed entirely on reclaimed land. For the facility, a total surface area of about 135 hectares will have to be reclaimed for Phases 1 to 3. This new facility shall be linked to existing port land with a 105 m wide access cause way near the existing Berth 8. The facility included various buildings and infrastructure, such as an entrance building, administration centre, mechanical workshop, electrical, substation pump stations and a rail siding. Specifications were written for all mechanical and electrical utilities needed at the project.

Work scope included basic design & documentation of Bulk 11kV feeders (26MVA capacity), main intake substation (26MVA), 2x8MVA Bert substations, 11kV primary ring feeders and ancillary electrical equipment.