

PORT SANDINO:

INSTALLATIONS AND PORT FACILITIES

Wharf

The port has a marginal quay with a concrete platform, part of it rests on a system of poles and the other on a base with steel pillars. The length of the berth is 150 mts, has a width of 22 mts and an average depth of 4,3 mts with high tide and 3,7 ms with low tide. The wharf area measures 3.300 ms² and is also equipped with mooring bollards.



Warehouses and patios

The storage facilities consist of four warehouses and an open air yard.

Warehouse (closed)	Area (m ²)	Capacity (MT)
Warehouse N° 1	2,990	5,300
Warehouse N° 2	1,968	3,500
Warehouse N° 3	5,626	11,000
Warehouse N° 4	2,562	5,000
Total	13,146	24,800

Storage yard (open air)	Area (m²)
Deposit for bulk products	3,627
Asphalted vehicle yard	22,717
Total	26,344

Marine equipment

The administration of Puerto Sandino has 4 tugboats to offer this service to ships and their cargo.

Tugboat	Width (m)	Depth(m)	Power (HP)
R-El Teasel	4.51	1.20	190
R- Güegüense	4.78	1.38	402
R- R2	4.90	2.10	402
R- Jose Schendel	4.61	1.60	402



They also have a small boat with an out board motor that is used by the OPIP (official of protection of the harbor facilities) to make official visit to ships when they arrive or lift anchor.



PORT EQUIPMENT

Mobile Cranes

The administration of Puerto de Sandino has three mobile cranes to handle cargo on the wharf.

Crane	Capacity (ton)	Power (HP)
LINK BELT FMC	20	-----
JONES 06	20	227
JONES 07	20	227



Link Belt Crane.



Jones Crane.

Forklifts and bulldozers

The port has forklifts and bulldozers for cargo handling.

Equipment	Capacity
Tractors of Caterpillars CASE	450 HP
Tractors of Caterpillars JD	450 HP
Freight elevator ZV	12 Tons

Scale

The administration of Puerto Sandino has a weighing platform with a capacity of 100 tons.



Hulls or barges

Barges	Width (m)	Depth(m)	Capacity (MT)
Melicario García	9.10	1.39	350
Luis Delgado	9.10	1.39	350
Francisco Salazar	9.10	1.39	350
Marcio Zeledón	9.10	1.39	350

B-25	9.10	1.39	350
B-1	9.10	1.39	350
B-2	12.50	1.80	450
B-3	12.50	1.80	450
B-4	12.50	1.80	450

Conveyor belt

The port has a 720 M long conveyor belt system, with a capacity of 200 Metric tons per hour and two hoppers with a capacity of 50 ms³ each

Note: This system is not used at the moment because the type of cargo that is handled in the port, is not compatible with the design of the conveyor belt.



Drydock

The port has a drydock to offer repair and maintenance services to shallow-draft vessels.

Length: 57 M.s
Wide: 12.93 M.s
Area: 737 ms².



Reception terminal of ESSO standard Oil

ESSO has a system of tanks for the reception of crude oil, that connects to the ships tanks by means of a rigid steel pipe of 5.2 km long and with a diameter of 18 inches, complemented by seven sections of flexible hose with a length of 30 feet each and a diameter of 12 inches.

Tank	Capacity (barrels)	Amount
Tank N° 1,2	142,000	2
Tank N° 3	144,000	1
Tank N° 4	220,000	1
Total	648,000	4

Ships of approximately 45.000 DWT (dead weight tonnage) are handled, with an average work rate of 8.500 barrels/hour at a pressure of 8,5 Psi.

HARBOR SERVICES

SERVICES PROVIDED TO THE SHIP	CARGO SERVICES	SPECIAL SERVICES
Pilotage	Port tariffs	Rent Equipment
Mooring and unmooring	Storage	Rent other tools
Site occupation	Wharfage	Serv of weighing scale

Basically two services are offered in the port: Ship services and cargo services. A third category called special services also exists. The operational and administrative functions of the port are centered on these services.

Tanker Services

Lights and Buoys: these are the equipments or systems external to the ships, designed and constructed to increase efficiency in navigation and security of the ships and/or marine traffic.

Pilotage: This is the advice of an official pilot delegated by the administration of Puerto Sandino for all types of maneuvers: National fishing boats, ships from the Armed Forces of the Republic and military ships of partner countries don't have to abide this rule.

Towing: use of one or more tugboats to assist the ships in berthing maneuvers, unmooring or other maneuvers within the protected zone.

Mooring and unmooring: this service consists of the positioning and securing of the boat's cables to the floating buoys of the berth, following the instructions of the authorized pilot. Unmooring is essentially the inverse operation.

Site occupation at the berth: time during which the ship remains berthed or moored to the dock berth or system of buoys.

Liquid cargo Services

Port tariffs (use of a berth, pipelines, ...): it is the charge paid by the consignatories, for all the cargo or merchandise for import and export, for using the dock berth and harbor facilities.

Equipment rental for cargo handling: the port has the equipment to offer Cargo services (freight elevator, cranes, etc.), its fees are calculated per hour or fraction

SHIPPING LINES

AGENCY VASSALLI

AGENCY CHOW

AGENCY ADNAVI

AGENCY AMBRUMASA