



23RD INAP CONFERENCE

OCTOBER 16-17, 2024

RESILIENT PORTS:
INNOVATING BEST PRACTICES FOR ENVIRONMENTAL
PROTECTION AND DISASTER MANAGEMENT

Port of Davao

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PHILIPPINE
PORTS
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PHILIPPINE PORTS AUTHORITY

“Resilient Ports: Innovating Best Practices for Environmental Protection and Disaster Management”

International Network of Affiliated Ports (INAP)
2024 Conference
Subic Bay Freeport Zone, Philippines
October 16-17, 2024

PPA AO NO. 05-2018:

PORT ENVIRONMENT POLICY

“The Philippine Ports Authority (PPA), as a government agency tasked to administer the ports in the country including the development of the ports to spur regional and national growth, shall adhere to the concept of ensuring that port activities are focused on minimizing the adverse or negative impact to the environment and ensuring that all aspects of port operation and port development are geared towards the protection and preservation of the environment for the maximum utilization of port facilities.”



“WHY GREEN PORTS”

?

RATIONALE FOR GREEN PORTS:

- Combating Global Climate Change
- Promoting Environmental Sustainability
- Enhancing Public Health
- Strengthening Operational Sustainability
- Complying with Regulations
- Improving Stakeholder Relations
- Supporting Economic Growth

GREEN PORT SOFT INFRASTRUCTURE

01

Regulations are contained in **Administrative Orders (AO), Memorandum Circulars (MC), Memorandum Orders (MO)** ports

02

PPA Orange Book: Book II is Environmental Management in Ports (2015)

AO 03-79 on “**Environmental Protection Requirements**” (1979)

Port Environmental Policy (2018)

03

Terms of Reference for Bidding of Ports (i.e. provision of OPS)

04

- ✓ Ban on the use of single-use plastics in all its controlled ports nationwide was issued
- ✓ Mandatory tree planting (12.3M Trees Planted Across the Philippines)
- ✓ Transport Accreditation Permit and Pass for Ports System (TAPPS)
- ✓ Implementation of Terminal Appointment Booking System (TABS)
- ✓ Rethinking Plastic - Ship Waste Management in Philippine ports

GREEN INITIATIVES AND PROJECTS: HARD INFRASTRUCTURE

APEC Port Services Network (APSN) - Green Port Award System (GPAS)

Primary Indicator	Secondary Indicator	Reference Standard
Commitment and Willingness (25%)	Green Port Awareness and Willingness (60%)	(1) Green strategy or development plans (2) Green support funding (3) Green annual reports (4) Others
	Green Port Promotion (40%)	(1) Green training programs (2) Green promotion campaigns (3) Others
Action and Implementation (50%)	Clean Energy (15%)	(1) Using renewable energy sources (2) Using of LNG (3) Using cold ironing (shore power) (4) Others
	Energy Saving (30%)	(1) Using energy-saving devices & technologies (2) Optimizing power supply system (3) Others
	Environmental Protection (40%)	(1) Air pollution prevention (2) Noise control (3) Waste treatment (liquid and solid) (4) Others
	Green Management (15%)	(1) Green environment management system (2) Green performance assessment (3) Others
Efficiency and Effectiveness (25%)	Energy Saving (40%)	(1) Energy consumption reduction (2) Renewable energy increment (3) Others
	Environmental Protection (60%)	(1) Air quality improvement (2) Noise control result (3) Liquid & solid pollution control (4) Others

GPAS Indicator System developed by APSN



CLEAN ENERGY AND ENERGY SAVING MEASURES



**1 UNIT 250A – SHORE
BASED-POWER SUPPLY**

ENVIRONMENTAL PROTECTION



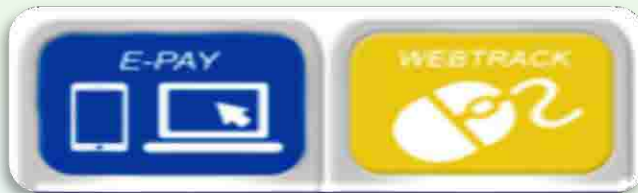
STAKEHOLDER PARTICIPATION: DIGITALIZATION



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TERMINAL APPOINTMENT BOOKING SYSTEM

Developed by:



SSIDS, Safety And Security ID System

Form fields: ID Number, Name, Address, Company, Allotment, Designation, Company Tel No., Local, ID Expiration Date, Sex, Location of Incident, Remarks. Includes a profile picture placeholder and a character limit indicator (Limited to 1000 characters).

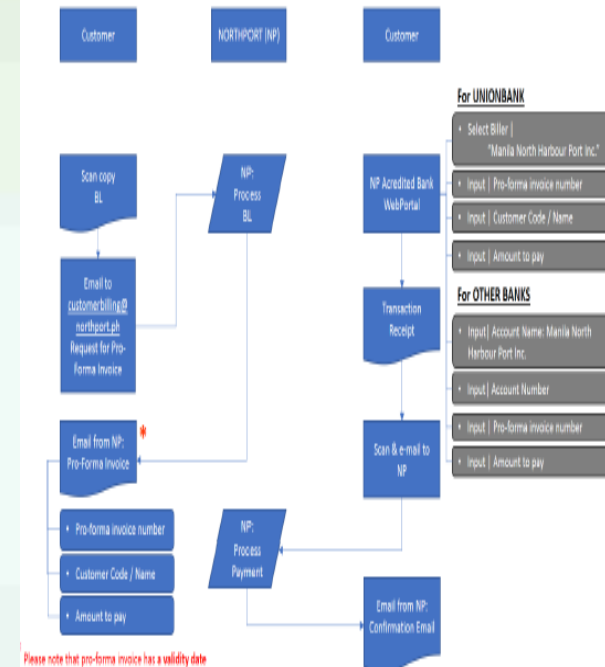


Advanced Customer Transaction System (ACTS)

Welcome to Manila International Container Terminal E-payment page!



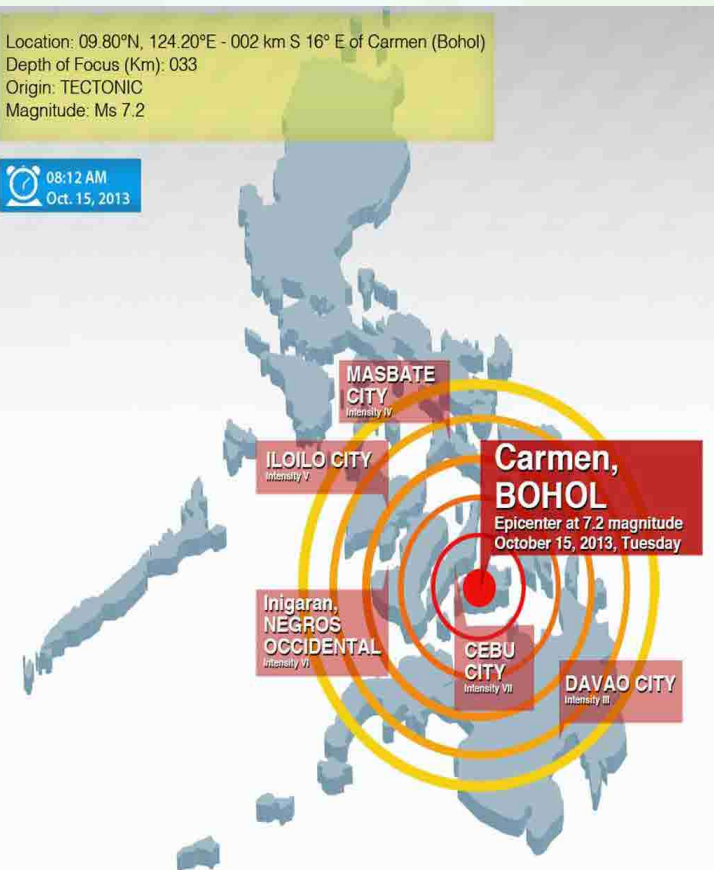
OPTION # 1 ONLINE PAYMENT THROUGH ACCREDITED BANKS



Please note that pro-forma invoice has a validity date

MAJOR DISASTERS EXPERIENCED BY PPA PORTS

2013 BOHOL EARTHQUAKE



Port of Tagbilaran

(Earthquake)



Port of Catagbacan

(Earthquake)



Port of Tubigon

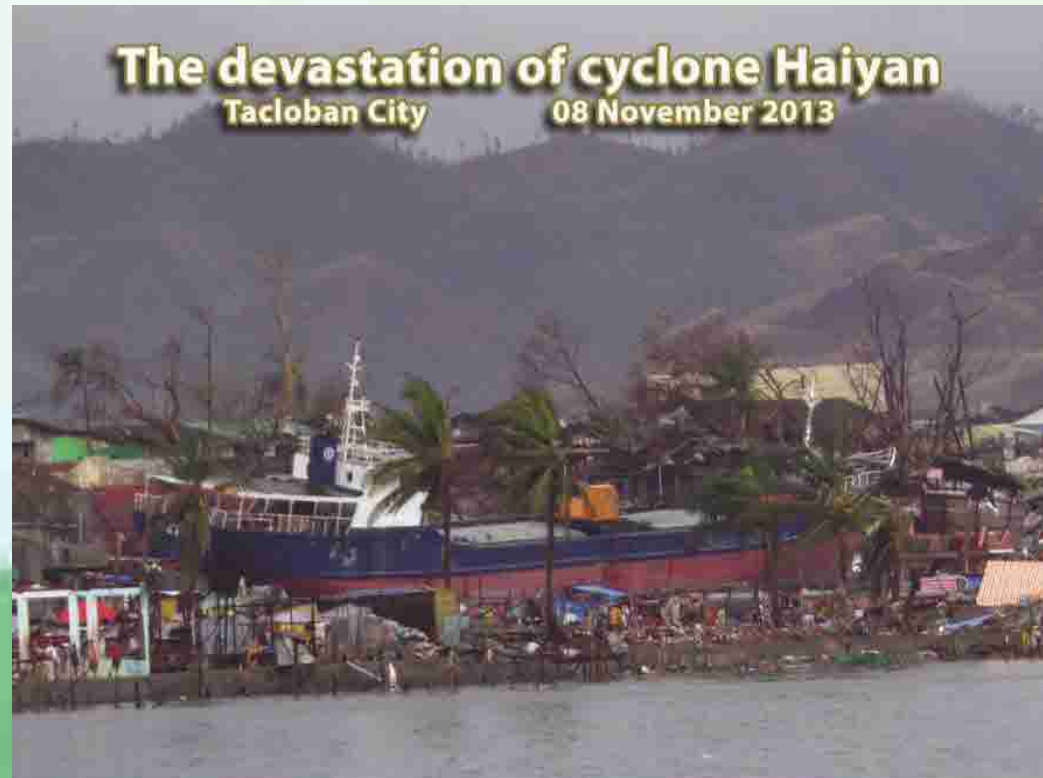
(Earthquake)



MAJOR DISASTERS EXPERIENCED BY PPA PORTS

Port of Tacloban

(Typhoon)



RESILIENT PROJECTS/MEASURES BEING ADOPTED BY PPA

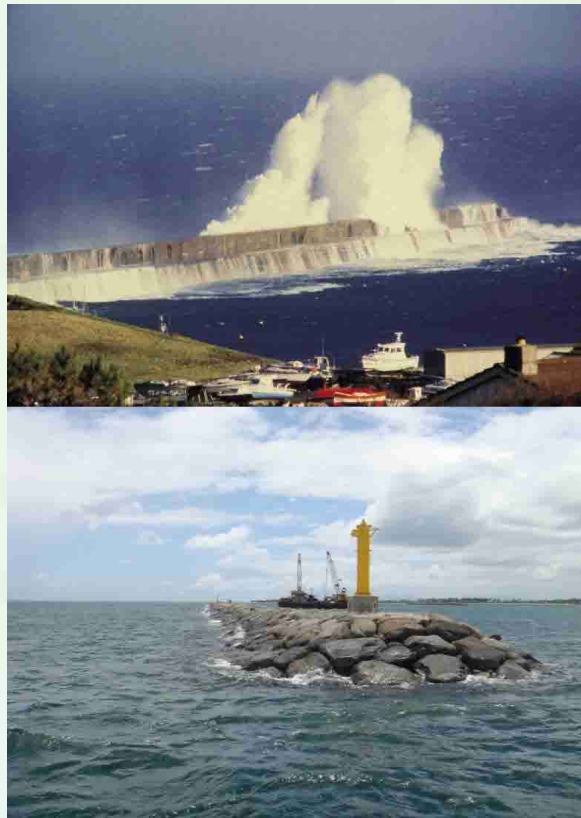
a) Upgrading of pavement or deck



b) The deck elevation of piers and wharves



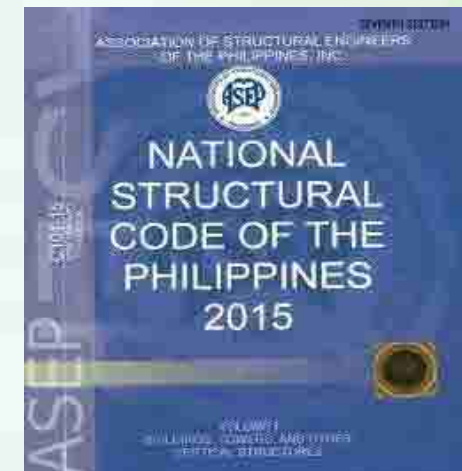
c) Upgrading and/or Construction of new Breakwaters



d) Construction of Deflector walls



e) PPA abides by the latest edition of the NSCP

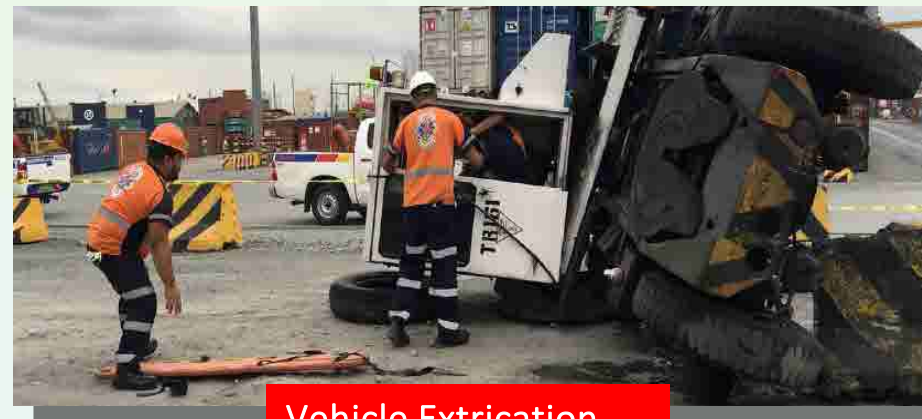


EMERGENCY RESPONSE

Rescue at Heights



Marine Spill Emergency Drill



Vehicle Extrication



Advance Fire Fighting Trainings



Earthquake Drill

EMERGENCY POWER SOURCE



**Therma Marine Inc.
Maco Oil Power Barge
(Mobile1)**

**Therma Marine Inc.
TMI BESS Battery Energy
Storage System**



PPA's Green Port Way Forward

- 1 To continually participate by sending our candidate ports to the annual **GREEN PORT AWARD SYSTEM (GPAS)** of the APEC Port Services Network (APSN).
- 2 Moving further with the full deployment of **port equipment that runs on clean energy** such as electric forklifts, shore cranes, etc. and/or LNG-powered shore cranes, rubber-tired gantries.
- 3 Conduct study on **incentivizing vessels that run on clean fuel** through granting of discounted berthing fees and/or prioritized berthing at PPA ports.
- 4 Adapt **technological advancements** in the global port industry in order to raise the level of PPA ports to become **Smart, Efficient** and **Climate Change Resilient** Ports
- 5 Completion and implementation of the Port Environmental Code to prescribe and define the Roadmap towards **GREEN, RESILIENT** and **SMART** Ports
- 6 PPA is an active member of different International Organizations which are the Permanent International Association of Navigation Congresses (**PIANC**) and International Maritime Organization (**IMO**)



THANK YOU