

PPA's Green Port Initiatives and Gender Mainstreaming in Ports

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Port Operations and Services Department (POSD)

Philippine Ports Authority (PPA)

Topic Outline:

- PPA- A GENDER SENSITIVE GOCC;
- PPA'S CONTRIBUTIONS TOWARDS ENVIRONMENTAL PROTECTION AND PRESERVATION;
- PPA'S GREEN WAY FORWARD;

The East Asia Congress 2018
November 27 to 30, 2018
Iloilo Convention Center



THE PHILIPPINE PORTS AUTHORITY
A GENDER SENSITIVE
GOVERNMENT-OWNED AND CONTROLLED CORPORATION
(GOCC)

The PHILIPPINE PORTS AUTHORITY

A GENDER SENSITIVE GOVERNMENT OWNED AND CONTROLLED AND CORPORATION

- The Philippine Ports Authority (PPA) was created under Presidential Decree No. 505 dated July 11, 1974;
- On December 23, 1975, Presidential Decree No. 857 was issued providing for the reorganization of port administration and operation functions in the Philippines, revising PD NO. 505, which created the Philippine Ports Authority;
- In 2019 the PPA will be celebrating its 45th year in existence, as a Government–Owned and Controlled Corporation (GOCC).
- On the average, PPA annually allocates approx. **Php 5.0 Million pesos** for GAD training alone;

The PHILIPPINE PORTS AUTHORITY

A GENDER SENSITIVE GOVERNMENT-OWNED AND CONTROLLED AND CORPORATION

- As of October 31, 2018, the breakdown of regular employees number to a total of **898** female and **998** male employees nationwide;
- For 2018, under the Gender and Development (GAD) Learning and Development Programs and Budget, PPA's training programs, among others, are identified as follows:
 - 1) *Gender Sensitivity Trainings;*
 - 2) *Training on Magna Carta for Women;*
 - 3) *Training on Trafficking in Ports;*
 - 4) *Anti-Violence against Women and Children Seminar (RA 9262);*
 - 5) *Gender Mainstreaming Seminar;*
 - 6) *GAD Planning and Budgeting;*
 - 7) *Gender Analysis Training;*
- To implement said training programs to all PPA Offices nationwide, a total budget of **Php 4.22 Million** was approved for disbursement;

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PPA's Green Port Initiatives

PPA's contributions towards environmental protection and preservation:

1. PPA re-engineered its organizational structure :

- *In 2014, through the PPA Rationalization Program - **created environmental management units** in 26 PMOs nationwide and in the Head Office; PPA has **hired personnel to complement** the environmental management units at the Head Office and in 26 PMOs nationwide;*

PPA's contributions towards environmental protection and preservation:

2. Successfully Implemented (and still being maintained) its International Standard Management Systems;

- a. *the Port Safety Health and Environment Management System (PSHEMS) in the following PPA ports: (recognized by the PEMSEA)*

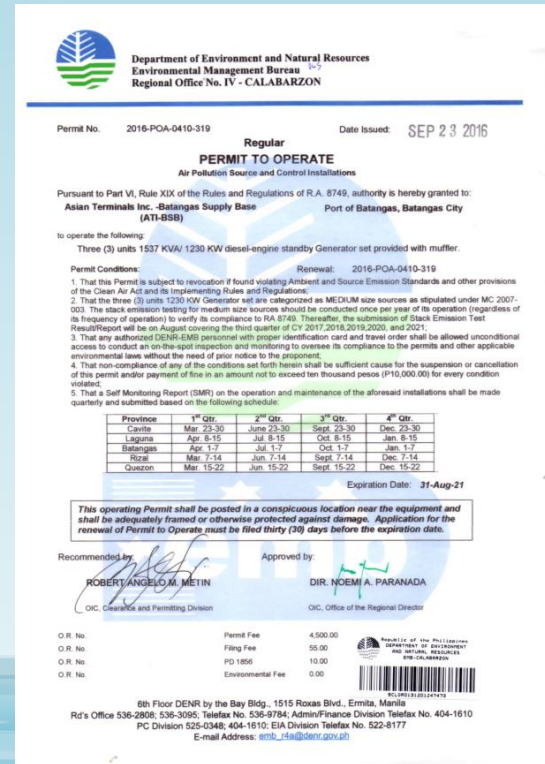
1. Port of Iloilo;
2. Port of Cagayan de Oro;
3. Port of General Santos;



PPA's contributions towards environmental protection and preservation:

3. Strict compliance with state required permits from other gov't agencies:

- Securing of Permit to Operate (**PTO**) from the DENR for PPA stand-by generator sets deployed in the ports nationwide;
- Mandatory securing of Environmental Compliance Certificates (**ECC**) or Certificates of Non-Coverage (**CNC**) from the DENR to cover PPA's infrastructure projects;
- Established in PPA a compliance monitoring and reporting system on the ECC conditions for PPA infra projects implemented;



Department of Environment and Natural Resources
Environmental Management Bureau
Regional Office No. IV - CALABARZON

Permit No. 2016-POA-0410-319 Regular Date Issued: SEP 23 2016

PERMIT TO OPERATE
Air Pollution Source and Control Installations

Pursuant to Part VI, Rule XIX of the Rules and Regulations of R.A. 8749, authority is hereby granted to:
Asian Terminals Inc., Batangas Supply Base Port of Batangas, Batangas City
(ATI-BSSB)

to operate the following:
Three (3) units 1537 KVA/ 1230 KW diesel-engine standby Generator set provided with muffler.

Permit Conditions: Renewal: 2016-POA-0410-319

- That this Permit is subject to revocation if found violating Ambient and Source Emission Standards and other provisions of the Clean Air Act and its Implementing Rules and Regulations;
- That the three (3) units 1230 KW Generator set are categorized as MEDIUM size sources as stipulated under MC 2007-003. The stack emission testing for medium size sources should be conducted once per year of its operation (regardless of its frequency of operation) to verify its compliance to RA 8749. Thereafter, the submission of Stack Emission Test Result Report will be on August covering the third quarter of CY 2017, 2018, 2019, 2020, and 2021.
- That any authorized DENR/EMB personnel with proper identification card and travel order shall be allowed unconditional access to conduct an on-the-spot inspection and monitoring to oversee its compliance to the permits and other applicable environmental laws without the need of prior notice to the proponent.
- That non-compliance of any of the conditions set forth herein shall be sufficient cause for the suspension or cancellation of this permit and/or payment of fine in an amount not to exceed ten thousand pesos (P10,000.00) for every condition violated.
- That a Self Monitoring Report (SMR) on the operation and maintenance of the aforesaid installations shall be made quarterly and submitted based on the following schedule:

Province	1 st Qtr.	2 nd Qtr.	3 rd Qtr.	4 th Qtr.
Cavite	Mar 23-30	June 23-30	Sept 23-30	Dec 23-30
Laguna	Apr 6-15	Jul 6-15	Oct 6-15	Jan 6-15
Batangas	Apr 17	Jul 17	Oct 17	Jan 17
Rizal	Mar 7-14	Jun 7-14	Sept 7-14	Dec 7-14
Quezon	Mar 15-22	Jun 15-22	Sept 15-22	Dec 15-22

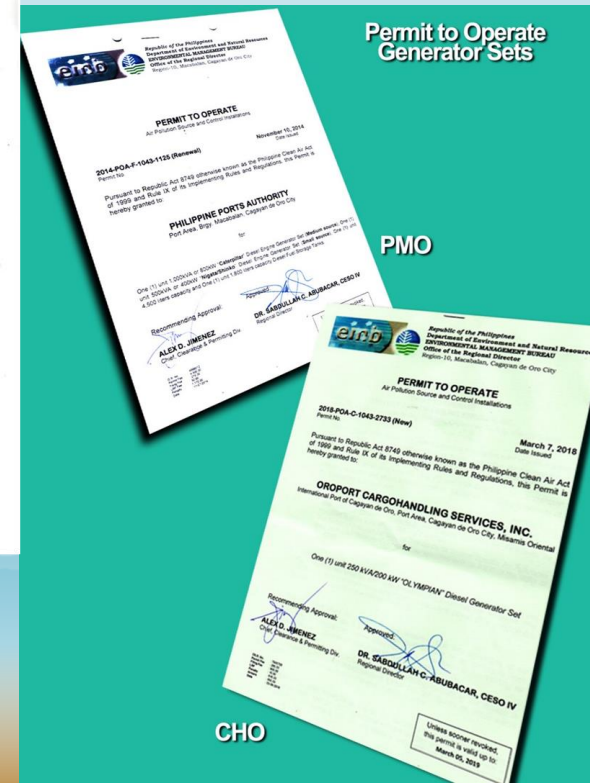
Expiration Date: 31-Aug-21

This operating Permit shall be posted in a conspicuous location near the equipment and shall be adequately framed or otherwise protected against damage. Application for the renewal of Permit to Operate must be filed thirty (30) days before the expiration date.

Recommended by: ROBERT ANGELO M. METIN, OIC, Compliance and Permitting Division
Approved by: DIR. NOEMI A. PARANANDA, OIC, Office of the Regional Director

O.R. No. Permit Fee 4,500.00
O.R. No. Filing Fee 55.00
O.R. No. PD 1856 10.00
O.R. No. Environmental Fee 0.00

6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
Rd's Office 536-2808; 536-3095; Telefax No. 536-9784; Admin/Finance Division Telefax No. 404-1610
PC Division 525-0348; 404-1610; EIA Division Telefax No. 522-8177
E-mail Address: emb_riv@denr.gov.ph



Republic of the Philippines
Department of Environment and Natural Resources
Environmental Management Bureau
Regional Office No. III - MINDANAO

Permit to Operate Generator Sets

PMO

2016-POA-F-1043-112 (Renewal)
Permit No. 2016-POA-F-1043-112 (Renewal)
Date Issued: November 16, 2016

Pursuant to Republic Act 8749 otherwise known as the Philippine Clean Air Act of 1989 and Rule 16 of its Implementing Rules and Regulations, this Permit is hereby granted to:

PHILIPPINE PORTS AUTHORITY
Port Area: Bay View, Cagayan de Oro City

One (1) unit 1200KW or 800KW Generator Set (Single Generator Set) for Marine Service, Port Area: Bay View, Cagayan de Oro City

Recommending Approval: DR. GABRIEL C. ABUACAR, CESO IV, Regional Director
Approved: ALDO J. JIMENEZ, Chief, Compliance & Permitting Div.

2016-POA-C-1043-2733 (New)
Permit No. 2016-POA-C-1043-2733 (New)
Date Issued: March 7, 2016

Pursuant to Republic Act 8749 otherwise known as the Philippine Clean Air Act of 1989 and Rule 16 of its Implementing Rules and Regulations, this Permit is hereby granted to:

OROPORT CARGO HANDLING SERVICES, INC.
International Port of Cagayan de Oro, Port Area, Cagayan de Oro City, Misamis Oriental

One (1) unit 250 KVA/200 KW "OLYMPIC" Diesel Generator Set

Recommending Approval: ALDO J. JIMENEZ, Chief, Compliance & Permitting Div.
Approved: DR. GABRIEL C. ABUACAR, CESO IV, Regional Director

Unless sooner revoked, this permit is valid up to: March 06, 2019

CHO

PPA's contributions towards environmental protection and preservation:

4. Implementation of **earth-balling activities** inside PPA ports and correspondingly secured with **Earth-Balling Permits** from the DENR;

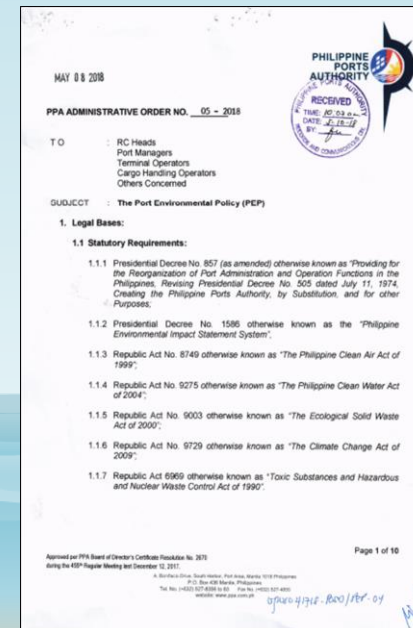
5. Established **Carbon Sink Areas** (Tree Parks) inside PPA ports:



PPA's contributions towards environmental protection and preservation:

6. Issuance and implementation of PPA Policies, Rules and Regulations on environmental protection and preservation (soft infrastructure):

- a. **PPA Administrative Order No. 07-2015** otherwise known as the *“Guidelines on the Implementation of the PPA Orange Book on Safety, Health, Environmental Management and Handling of Dangerous Goods”*
- b. **PPA Administrative Order No. 05-2018** otherwise known as the *“Port Environmental Policy”*



Orange Book Comprising of Three (3) Volumes



-
- Rainwater Harvesting Facility**
- 1st FLOOR MOTION DETECTOR LAYOUT PLAN
- 2nd FLOOR MOTION DETECTOR LAYOUT PLAN
- PHOTOGRAPH OF THE FACILITY EXTERIOR
- CLOSE-UP OF THE WATER STORAGE TANK
- PERSON STANDING IN FRONT OF THE FACILITY ENTRANCE

- ## 9. Implemented Resource Efficiency Usage and Reusage:

- ✓ **Constructed Rainwater Harvesting Facility:**

PPA's contributions towards environmental protection and preservation:

10. Implemented environmental protection and preservation measures:

I. On Air Pollution Prevention:

- Conduct of ambient air Quality Monitoring in PPA ports**
- Emission testing of PPA owned and operated power-generator sets**
- Encouraged the use of electric-powered forklifts for indoor cargo handling operations to eliminate emissions**

Ambient Air Quality Monitoring November 29, 2017

RESULTS AND DISCUSSION

Table 5-1. Observed Ambient Air Quality Monitoring Results (PM₁₀, PM_{2.5}, and SO₂) in November 2017

Station	Location	Date and Time of Monitoring	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (ppm)
1	Area 1 (Loading Area)	November 29, 2017 8:00 AM - 12:00 PM	100	50	10
2	Area 2 (Stack Area)	November 29, 2017 1:00 PM - 5:00 PM	150	80	15
3	Area 3 (Off-Stack Area)	November 29, 2017 6:00 PM - 10:00 PM	120	60	12
4	Area 4 (Off-Stack Area)	November 29, 2017 11:00 PM - 3:00 AM	80	40	8

Based on the above table, the observed TSP concentrations for the four (4) stations are all below the TSP ambient standard of 240 µg/m³ (24 hours) and 120 µg/m³ (24 hours). The observed SO₂ concentrations for the four (4) stations are all below the SO₂ ambient standard of 1000 µg/m³ (24 hours) and 500 µg/m³ (24 hours). The observed PM_{2.5} concentrations for the four (4) stations are all below the PM_{2.5} ambient standard of 150 µg/m³ (24 hours) and 75 µg/m³ (24 hours). The observed PM₁₀ concentrations for the four (4) stations are all below the PM₁₀ ambient standard of 240 µg/m³ (24 hours) and 120 µg/m³ (24 hours). The observed concentrations for all four (4) stations are within the acceptable range for the four (4) stations.



AERONICS (INCORPORATED)

TEST REPORT

DATE: December 12, 2017

TESTED BY: [Name]

TESTED FOR: [Name]

TESTED AT: [Location]

TESTED ON: [Equipment]

TESTED BY: [Name]

TESTED FOR: [Name]

TESTED AT: [Location]

TESTED ON: [Equipment]

TESTED BY: [Name]

TESTED FOR: [Name]

TESTED AT: [Location]

TESTED ON: [Equipment]



Electric Forklift
by the CHO

PPA's contributions towards environmental protection and preservation:

10. Implemented environmental protection and preservation measures:

I. On Air Pollution Prevention:

- d. Provides Shore-Based Power Supply (SBPS) for vessels (or cold-ironing) in some PPA ports
- e. Use of hydraulic hammers instead of diesel hammers during pile driving activities to reduce both emissions and noise pollution.

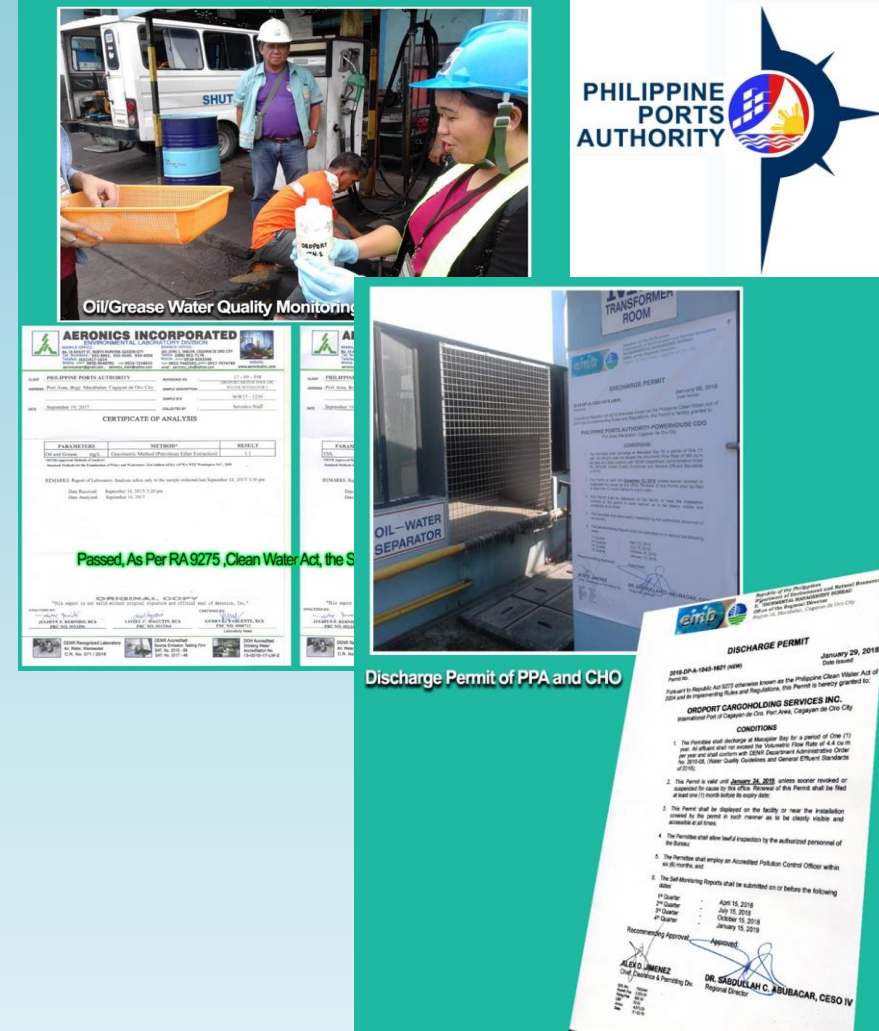


PPA's contributions towards environmental protection and preservation:

10. Implemented environmental protection and preservation measures:

II. On Marine Pollution Prevention:

- f. Conduct of water quality monitoring tests;
- g. Installation of oil and water separators;
- h. Secured the necessary Discharge Permits from the DENR



PPA's contributions towards environmental protection and preservation:

10. Implemented environmental protection and preservation measures:

II. On Marine Pollution Prevention:

- i. Conduct of oil and chemical spill drills in PPA ports
- j. Implementation of the International Maritime Dangerous Code (IMDG) Code in the handling of dangerous goods in PPA ports:



Regular Conduct of Oil Chemical Spill Drill



PPA's contributions towards environmental protection and preservation:

10. Participation in inter-agency projects aimed at protecting the environment:

III. On Ground, Marine and Air Pollution Prevention

- k. Regular and active participation to coastal clean-up activities
- l. As member gov't agency of the National Task Force on the Global Maritime Energy Efficiency Partnerships (GloMEEP)

Note: *GloMEEP is aimed at transforming the global maritime industry towards a low carbon future through improved energy efficiency.*

Coastal Clean Up
2016



PHILIPPINE
PORTS
AUTHORITY



Coastal Clean Up 2015

PPA's contributions towards environmental protection and preservation:

11. Strong partnership with International Organizations

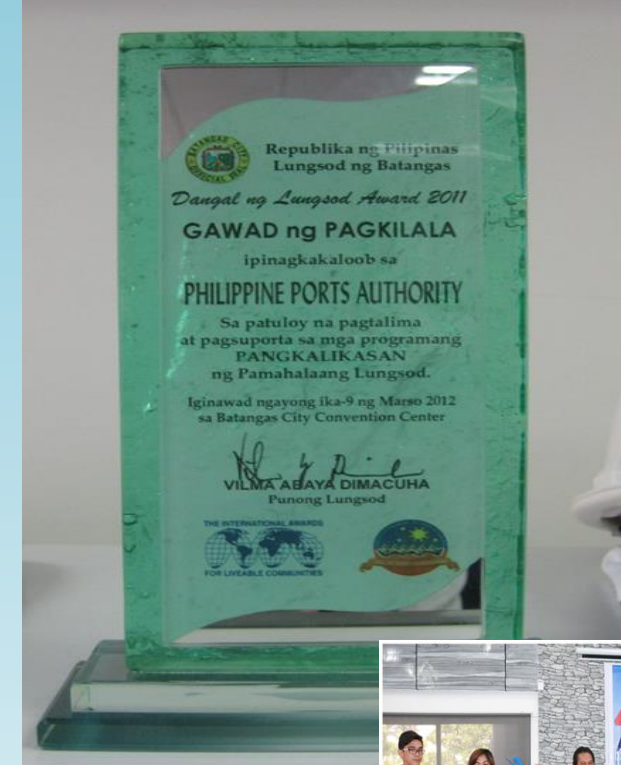
1. Capacity building of PPA technical personnel through a strong and continued partnership with the **Permanent International Navigational Congresses (PIANC)** which is a world association of waterborne transport infrastructure experts;
2. Active member of the **APEC Ports Services Network (APSN)** composed of **18 member economies** such as council members such as *Australia, Canada, China, Hong Kong-China, Indonesia, Japan, Korea, Malaysia, Papua New Guinea, Peru, the Philippines, New Zealand, Singapore, Russia, Chinese Taipei, Thailand, The United States of America and Vietnam.*



PPA's contributions towards environmental protection and preservation:

12. Local Awards and Recognitions:

1. **Dangal ng Lungsod Award** conferred by the Batangas City Government for the green initiatives being implemented at the Port of Batangas
2. **Plaque of Recognition** given by the DENR-EMB Region 10 on March 5, 2018 in recognition of PPA PMO Misamis Oriental/Cagayan de Oro's remarkable implementation of its environmental programs in compliance with Environmental Management requirements.



PPA's contributions towards environmental protection and preservation:

13. International Awards:

1. The **Philippines (thru PPA's Port of Batangas)** received its very first Green Port Award as one of the declared winners in the **2017 Green Port Award System (GPAS)** which was awarded by the ASEAN Port Services Network (APSN) in Singapore last November 13 to 16, 2018.
2. For two consecutive years, the **Philippines (thru PPA's Port of Cagayan de Oro)** was again awarded its second Green Port Award as one of the declared winners in the **2018 Green Port Award System (GPAS)** which was awarded by the ASEAN Port Services Network (APSN) in Singapore last November 13 to 16, 2018.



PPA's GREEN WAY FORWARD

1. To continually participate by sending our candidate port 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. Aiming for **full compliance** together with other government maritime agencies during the scheduled International Maritime Organization (IMO) Member State Audit Scheme (IMSAS) in 2021.

PPA's GREEN WAY FORWARD

5. 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.
6. PPA to become the **model government corporation** that **protects and preserves the environment** while providing global standards in port services and providing world class port facilities.

THANK YOU.