



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Region VIII
DENR Compound, Jones Street, Barangay 2, Tacloban City
Tel No: (053) 832-1088 / (053) 832-2319
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Permit No: PTO-OL-R08-2022-02233-R
Application Type: Renewal

Date Issued: 17 Mar 2022
Date Expiration: 17 Mar 2023

PERMIT TO OPERATE
Air Pollution Source and Control Installations

Pursuant to Part IV, Rule XIX of the Rules and Regulations of R.A. 8749, authority is hereby granted to:

Philippine Associated Smelting and Refining Corporation (Philippine Associated Smelting and Refining Corporation (Acid Plant))

Lide, Libertad, Isabel, Leyte

subject to the following terms and conditions:

TERMS AND CONDITIONS

1. This Permit is issued for the permittee to operate the **Air Pollution Source Installations (APSI)** and **Air Pollution Control Devices (APCD)** in the **ACID PLANT** at the permittee's establishment identified on this Permit. *(Refer to attached Annex at page 3 to 4)*
2. Any application for renewal of this Permit shall be filed **not less than thirty (30) days** before the expiry date indicated on the previous page of the Permit.
3. This Permit shall be posted in a conspicuous location of the premises, and shall be adequately framed or otherwise protected against damage.
4. Without limiting the generality of the previous condition, the permittee shall ensure that the emissions from the permitted installations or processes comply with:
 - the National Emission Standards for Source Specific Air Pollutants as specified in Rule XXV of the IRRs of RA 8749;
 - the National Ambient Air Quality Standards for Source Specific Air Pollutants from Industrial Sources/Operations as specified in Rule XXVI of the IRRs of 8749; and
 - the emission limits specified in Permit condition No.9.
5. The permittee shall submit Self-Monitoring Reports to the Bureau in accordance with DENR Administrative Order No. 27 (Series of 2003) and any written instructions by the Bureau at three-monthly intervals, commencing with submission of the **first Report** on or before **April 15, 2022**. *(Online submission at <https://client.emb.gov.ph/smr>)*
6. The permittee shall at all times have an appointed or designated Pollution Control Officer (PCO) pursuant to DAO 2014-02.
7. The permittee shall at all times allow authorized or accredited officers of the Department or the Bureau entry to the establishment and access to any part of the establishment to conduct inspections, gather information, test emissions or take samples.
8. The permittee shall not make or allow any alterations or modifications to operations, activities, installations, processes, plant or equipment at the establishment that might substantially change the nature or quantity of the associated emissions without obtaining the approval of the Bureau, including the obtaining of any necessary Permit to Operate.
9. The permittee shall ensure that the concentrations of the emissions from the **Acid Plant Stack** serving the **Acid Plant** shall not exceed the following limits:
 - **Particulate Matter (PM): 150 milligrams per normal cubic meter;**
 - **Sulfur Dioxide (SO2): 700 milligrams per normal cubic meter;**
 - **Sulfur Trioxide (SO3): 1500 milligrams per normal cubic meter;**
 - **Nitrogen Oxide (NOx): 500 milligrams per normal cubic meter;**
 - **Carbon Monoxide (CO): 500 milligrams per normal cubic meter;**
 - **Total Mercury (Hg): 5 milligrams per normal cubic meter;**

Filing Fee	: Php 600.00	O.R. No. : 4736490,4736491,1944623	Date : 3 March 2022
Permit Fee	: Php 16140.00	O.R. No. : 4736490,4736491,1944623	Date : 3 March 2022
PD1856	: Php 10.00	O.R. No. : 4736490,4736491,1944623	Date : 3 March 2022
Documentary Stamp Tax	: Php 30.00	O.R. No. : 4736490,4736491,1944623	Date : 3 March 2022




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- **Total Antimony (Sb): 10 milligrams per normal cubic meter;**
 - **Total Arsenic (As): 10 milligrams per normal cubic meter;**
 - **Total Cadmium (Cd): 10 milligrams per normal cubic meter;**
 - **Total Copper (Cu): 100 milligrams per normal cubic meter;**
 - **Total Nickel (Ni): 20 milligrams per normal cubic meter;**
 - **Total Zinc (Zn): 100 milligrams per normal cubic meter; and**
 - **Total Lead (Pb): 10 milligrams per normal cubic meter.**
10. The permittee shall operate the **Acid Plant** at a capacity of **not more than 90%** only (based on the operating load capacity during the previous emission test).
11. The permittee shall provide emission sampling ports, sampling platforms and safe access to those sampling ports and platforms for the **Acid Plant Stack** serving the **Acid Plant**, in accordance with the Bureau requirements.
12. Emissions from the **Acid Plant** shall be discharged at the **Acid Plant Stack** at a height of not less than **100 meters** above ground level with an inside diameter of **141.73 inches**.
13. The testing required by the previous condition shall be repeated and Emission Test Reports shall be submitted to the Bureau at **twice per year intervals**. The results of this testing shall be reported in the Self-Monitoring Reports submitted in accordance with Permit Condition No.5.
14. The permittee shall sample and analyze emissions of **PM, SO2, SO3, NOx, CO, Hg, Sb, As, Cd, Cu, Ni, Zn, and Pb** from the **Acid Plant Stack** and **Desulfurization Plant Stack** in accordance with the methods specified in the IRR of RA 8749 and including the submission of the **proposed test plan** to the Bureau at least **two (2) weeks** prior to the date of conduct of the emission test and shall submit an Emission Test Report on the results of this emission testing to the Bureau after **thirty (30) days** after the conduct of emission test. During the sampling of the emissions, the air pollution source shall be operated at an output of **90% or greater than the permitted capacity**. The following data on operating conditions shall be collected during the sampling period, and included in the Emission Test Report; (a) **the actual output of the Acid Plant**, (b) **stack or exhaust dimensions (height and inside diameter)**; (c) **average annual operating hours**; and (d) **the rate of fuel consumption**.
15. The permittee shall report in writing to the Bureau any malfunction, accident, breakdown, leak, spill or other abnormal or unexpected event which results in emissions to atmosphere that do not comply with relevant Permit Conditions, emissions standards or ambient air quality standards, or in any abnormal or unexpected releases of air pollutants. The report shall indicate the nature of the incident or event, its impact on emissions or releases, remedy any air pollution problems that may have occurred, and minimize the probability of a reoccurrence of the event or the release.

Recommended by:

Approved by:


ENGR. HENNENCY G. HAYAG
OIC-Chief, Clearance and Permitting Division


ENGR. REYNALDO B. BARRA
OIC-Regional Director

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Annex

Non Fuel Burning					
ID	APSI	Capacity	Brand name	Material	APCD
102737	Hydrogen Sulfide Reaction Tank (Vulcanization Reactor)	22.75 MT/hr/equipment	NERIN		---

APCD-APSI Mapping			
ID	APCD	Connected APSIs (<name> (id))	Connected APCDs (<name> (id))
15498	Eight (8) chambers Mist Electrostatic Precipitator (1)	---	---
15499	One (1) unit New Final Reverse Jet Scrubber (2)	---	---
15500	Dilute Acid Cooler 1 (3)	---	---
15501	One (1) unit FSF Humidifying Tower (4)	---	---
15502	One (1) unit CF Humidifying Tower (5)	---	---
15503	One (1) unit AP Humidifying Tower (6)	---	---
15504	One (1) unit Drying Tower (AP1) (7)	---	---
15505	One (1) unit Intermediate Absorption Tower (AP1) (8)	---	---
15506	One (1) unit Final Absorption Tower (AP1) (9)	---	---
15507	One (1) unit Product Acid Stripping Tower (AP2) (10)	---	---
15508	One (1) unit Product Acid cooler (AP1) (11)	---	---
15509	One (1) unit Drying Tower (AP2) (12)	---	---
15510	Intermediate Absorbing Tower 1 (AP2) (13)	---	---
15511	One (1) unit Final Absorbing Tower (AP2) (14)	---	---
15512	One (1) unit Strong Acid Cooler (15)	---	---
15513	One (1) unit 4-Pass AP Converter (AP1) (16)	---	---
15514	One (1) unit 4-Pass SO3 Converter (AP2) (17)	---	---
15515	One (1) unit Acid Exhaust-Heat Boiler (18)	---	---
15516	One (1) unit Hydrogen sulfide tower (19)	---	---
15517	Dilute Acid Cooler 2 (20)	---	---
15518	Dilute Acid Cooler 3 (21)	---	---

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15519	Dilute Acid Cooler 4 (22)	---	---
15520	Intermediate Absorbing Tower 2 (AP2) (23)	---	---

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