



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  
embr8\_records@emb.gov.ph

Permit No: PTO-OL-R08-2022-02226-TR  
Application Type: Renewal

Date Issued: 17 Mar 2022  
Date Expiration: 17 Jun 2022

**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 (Refinery 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 **REFINERY PLANT** at the permittee's establishment identified on this Permit. *(Refer to attached Annex at page 3 to 6)*
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 **Refinery Plant Stack** serving the **Refinery 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;**
  - **Nitrogen Oxide (NOx): 500 milligrams per normal cubic meter;**
  - **Carbon Monoxide (CO): 500 milligrams per normal cubic meter.**
10. The permittee shall burn only **DIESEL FUEL OIL** in the **two (2) units "MESCO" Nickel Sulfate Evaporator** for the whole duration of the permit validity.

|                       |                |                                    |                     |
|-----------------------|----------------|------------------------------------|---------------------|
| Filing Fee            | : Php 600.00   | O.R. No. : 4736500,1949051,1944629 | Date : 3 March 2022 |
| Permit Fee            | : Php 36120.00 | O.R. No. : 4736500,1949051,1944629 | Date : 3 March 2022 |
| PD1856                | : Php 10.00    | O.R. No. : 4736500,1949051,1944629 | Date : 3 March 2022 |
| Documentary Stamp Tax | : Php 30.00    | O.R. No. : 4736500,1949051,1944629 | Date : 3 March 2022 |

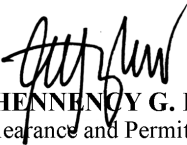


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- 11. The permittee shall operate the **Refinery Plant** at a capacity of **not more than 90%** only (based on the operating load capacity during the previous emission test).
- 12. The permittee shall provide emission sampling ports, sampling platforms and safe access to those sampling ports and platforms for the **Refinery Plant Stack** serving the **Refinery Plant**, in accordance with the Bureau requirements.
- 13. Emissions from the **Refinery Plant** shall be discharged at the **Refinery Plant Stack** at a height of not less than **14.75 meters** above ground level with an inside diameter of **35.43 inches**.
- 14. The testing required by the previous condition shall be repeated and Emission Test Reports shall be submitted to the Bureau at **once per year intervals**. The results of this testing shall be reported in the Self-Monitoring Reports submitted in accordance with Permit Condition No.5.
- 15. The permittee shall sample and analyze emissions of **PM, SO2, NOx, and CO** from the **Refinery 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 Refinery Plant**; (b) **stack or exhaust dimensions (height and inside diameter)**; (c) **average annual operating hours**; and (d) **the rate of fuel consumption**.
- 16. 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. HENNY G. HAYAG**  
OIC-Chief, Clearance and Permitting Division

  
**ENGR. REYNALDO B. BARRA**  
OIC-Regional Director

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Annex

| Fuel Burning |  |          |            |              |      |
|--------------|--|----------|------------|--------------|------|
| ID           | APSI                                   | Capacity | Brand name | Type of Fuel | APCD |
| 101919       | Diesel-fired Nickel Sulfate Evaporator | 50.0 kw  | MESCO      | Diesel       | ---  |
| 101923       | Diesel-fired Nickel Sulfate Evaporator | 50.0 kw  | MESCO      | Diesel       | ---  |

| Non Fuel Burning |                               |           |            |          |      |
|------------------|-------------------------------|-----------|------------|----------|------|
| ID               | APSI                          | Capacity  | Brand name | Material | APCD |
| 101920           | (4 Blocks) Liberator Cells 1  | 1432.0 kW | MESCO      |          | ---  |
| 101921           | (1 Block) Liberator Cells 1   | 2122.0 kW | OKO        |          | ---  |
| 101922           | Slime leaching tank1          | 214.0 kW  | MESCO      |          | ---  |
| 101924           | Slime leaching tank 2         | 214.0 kW  | MESCO      |          | ---  |
| 101925           | Slime leaching tank 3         | 214.0 kW  | MESCO      |          | ---  |
| 101926           | Slime leaching tank 4         | 214.0 kW  | MESCO      |          | ---  |
| 101927           | Slime leaching tank 5         | 214.0 kW  | MESCO      |          | ---  |
| 101928           | Slime leaching tank 6         | 214.0 kW  | MESCO      |          | ---  |
| 101929           | Slime leaching tank 7         | 214.0 kW  | MESCO      |          | ---  |
| 101930           | Slime leaching tank 8         | 214.0 kW  | MESCO      |          | ---  |
| 101931           | (4 Blocks) Liberator Cells 2  | 1432.0 kW | MESCO      |          | ---  |
| 101932           | (4 Blocks) Liberator Cells 3  | 1432.0 kW | MESCO      |          | ---  |
| 101933           | (4 Blocks) Liberator Cells 4  | 1432.0 kW | MESCO      |          | ---  |
| 101934           | (4 Blocks) Liberator Cells 5  | 1432.0 kW | MESCO      |          | ---  |
| 101935           | (4 Blocks) Liberator Cells 6  | 1432.0 kW | MESCO      |          | ---  |
| 101936           | (4 Blocks) Liberator Cells 7  | 1432.0 kW | MESCO      |          | ---  |
| 101937           | (4 Blocks) Liberator Cells 8  | 1432.0 kW | MESCO      |          | ---  |
| 101938           | (4 Blocks) Liberator Cells 9  | 1432.0 kW | MESCO      |          | ---  |
| 101939           | (4 Blocks) Liberator Cells 10 | 1432.0 kW | MESCO      |          | ---  |
| 101940           | (4 Blocks) Liberator Cells 11 | 1432.0 kW | MESCO      |          | ---  |
| 101941           | (4 Blocks) Liberator Cells 12 | 1432.0 kW | MESCO      |          | ---  |
| 101942           | (4 Blocks) Liberator Cells 13 | 1432.0 kW | MESCO      |          | ---  |

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|        |                                  |           |       |  |     |
|--------|----------------------------------|-----------|-------|--|-----|
| 101943 | (4 Blocks) Liberator<br>Cells 14 | 1432.0 kW | MESCO |  | --- |
| 101944 | (4 Blocks) Liberator<br>Cells 15 | 1432.0 kW | MESCO |  | --- |
| 101945 | (4 Blocks) Liberator<br>Cells 16 | 1432.0 kW | MESCO |  | --- |
| 101946 | (4 Blocks) Liberator<br>Cells 17 | 1432.0 kW | MESCO |  | --- |
| 101947 | (4 Blocks) Liberator<br>Cells 18 | 1432.0 kW | MESCO |  | --- |
| 101948 | (4 Blocks) Liberator<br>Cells 19 | 1432.0 kW | MESCO |  | --- |
| 101949 | (4 Blocks) Liberator<br>Cells 20 | 1432.0 kW | MESCO |  | --- |
| 101950 | (4 Blocks) Liberator<br>Cells 21 | 1432.0 kW | MESCO |  | --- |
| 101951 | (4 Blocks) Liberator<br>Cells 22 | 1432.0 kW | MESCO |  | --- |
| 101952 | (4 Blocks) Liberator<br>Cells 23 | 1432.0 kW | MESCO |  | --- |
| 101953 | (4 Blocks) Liberator<br>Cells 24 | 1432.0 kW | MESCO |  | --- |
| 101954 | (4 Blocks) Liberator<br>Cells 25 | 1432.0 kW | MESCO |  | --- |
| 101955 | (4 Blocks) Liberator<br>Cells 26 | 1432.0 kW | MESCO |  | --- |
| 101956 | (4 Blocks) Liberator<br>Cells 27 | 1432.0 kW | MESCO |  | --- |
| 101957 | (4 Blocks) Liberator<br>Cells 28 | 1432.0 kW | MESCO |  | --- |
| 101958 | (4 Blocks) Liberator<br>Cells 29 | 1432.0 kW | MESCO |  | --- |
| 101959 | (4 Blocks) Liberator<br>Cells 30 | 1432.0 kW | MESCO |  | --- |
| 101960 | (4 Blocks) Liberator<br>Cells 31 | 1432.0 kW | MESCO |  | --- |
| 101961 | (4 Blocks) Liberator<br>Cells 32 | 1432.0 kW | MESCO |  | --- |
| 101962 | (4 Blocks) Liberator<br>Cells 33 | 1432.0 kW | MESCO |  | --- |
| 101963 | (4 Blocks) Liberator<br>Cells 34 | 1432.0 kW | MESCO |  | --- |
| 101964 | (4 Blocks) Liberator<br>Cells 35 | 1432.0 kW | MESCO |  | --- |
| 101965 | (4 Blocks) Liberator<br>Cells 36 | 1432.0 kW | MESCO |  | --- |
| 101966 | (4 Blocks) Liberator<br>Cells 37 | 1432.0 kW | MESCO |  | --- |
| 101967 | (4 Blocks) Liberator<br>Cells 38 | 1432.0 kW | MESCO |  | --- |

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|--------|-------------------------------|-----------|-------|--|-----|
| 101968 | (4 Blocks) Liberator Cells 39 | 1432.0 kW | MESCO |  | --- |
| 101969 | (4 Blocks) Liberator Cells 40 | 1432.0 kW | MESCO |  | --- |
| 101970 | (4 Blocks) Liberator Cells 41 | 1432.0 kW | MESCO |  | --- |
| 101971 | (4 Blocks) Liberator Cells 42 | 1432.0 kW | MESCO |  | --- |
| 101972 | (4 Blocks) Liberator Cells 43 | 1432.0 kW | MESCO |  | --- |
| 101973 | (4 Blocks) Liberator Cells 44 | 1432.0 kW | MESCO |  | --- |
| 101974 | (1 Block) Liberator Cells 2   | 2122.0 kW | OKO   |  | --- |
| 101975 | (1 Block) Liberator Cells 3   | 2122.0 kW | OKO   |  | --- |
| 101976 | (1 Block) Liberator Cells 4   | 2122.0 kW | OKO   |  | --- |
| 101977 | (1 Block) Liberator Cells 5   | 2122.0 kW | OKO   |  | --- |
| 101978 | (1 Block) Liberator Cells 6   | 2122.0 kW | OKO   |  | --- |
| 101979 | (1 Block) Liberator Cells 7   | 2122.0 kW | OKO   |  | --- |
| 101980 | (1 Block) Liberator Cells 8   | 2122.0 kW | OKO   |  | --- |
| 101981 | (1 Block) Liberator Cells 9   | 2122.0 kW | OKO   |  | --- |
| 101982 | (1 Block) Liberator Cells 10  | 2122.0 kW | OKO   |  | --- |
| 101983 | (1 Block) Liberator Cells 11  | 2122.0 kW | OKO   |  | --- |
| 101984 | (1 Block) Liberator Cells 12  | 2122.0 kW | OKO   |  | --- |
| 101985 | (1 Block) Liberator Cells 13  | 2122.0 kW | OKO   |  | --- |

| APCD-APSI Mapping |                                     |                               |                               |
|-------------------|-------------------------------------|-------------------------------|-------------------------------|
| ID                | APCD                                | Connected APSIs (<name> (id)) | Connected APCDs (<name> (id)) |
| 15394             | preliminary scrubber 1 (1)          | ---                           | ---                           |
| 15395             | cyclone water-gas separator 1 (2)   | ---                           | ---                           |
| 15396             | cooling tower 1 (3)                 | ---                           | ---                           |
| 15397             | alkali and water scrubber 1 (4)     | ---                           | ---                           |
| 15398             | One (1) stage demister scrubber (5) | ---                           | ---                           |
| 15399             | preliminary scrubber 2 (8)          | ---                           | ---                           |
| 15400             | cyclone water-gas separator 2 (11)  | ---                           | ---                           |
| 15401             | cooling tower 2 (12)                | ---                           | ---                           |

|                       |                |                                    |                     |
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|       |                                  |     |     |
|-------|----------------------------------|-----|-----|
| 15402 | alkali and water scrubber 2 (13) | --- | --- |
|-------|----------------------------------|-----|-----|

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