



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Regional Office No. 8

INTEGRATED COMPLIANCE INSPECTION REPORT
Date of Inspection: March 16-17, 2022

1. GENERAL INFORMATION

Applicable Environmental Laws: (Pls. check box)				
<input checked="" type="checkbox"/> PD 1586	<input checked="" type="checkbox"/> RA 6969	<input checked="" type="checkbox"/> RA 8749	<input checked="" type="checkbox"/> RA 9275	<input checked="" type="checkbox"/> RA 9003
Name of Establishment:	PHILIPPINE ASSOCIATED SMELTING & REFINING CORPORATION			
Address:	LIDE, Brgy. Libertad Isabel, Leyte			
Nature of Business:	Non-ferrous smelting and refining except precious metals			
Year Established: 1983	Coordinates: 10°53'31" N; 124°25'52" E			
Operating hours/day: 24	Operating days/week: 7	Operating days/year:		

Product Lines	Production Rate as Declared in the ECC (Unit/day)	Actual Production Rate (Unit/day)
Copper Concentrates	1,300,000 DMT/annum	
Copper Cathodes	240,000 MT/annum	Monthly Production January - 17,266.47 February - 15,900.03 March - 18,147.79 Total: 51,314.29 Annual production 2021 = 203,634.41 DMT

Name of Managing Head	JOHN JOVEN S. CHIONG	
Name of PCO's	Engr. Ayman P. Dicol Engr. Edmundo P. Esguerra Engr. Dexter G. Mendoza Engr. Manly R. Pinoy Engr. Rowen B. Benig Engr. Rainaline R. Tan Engr. Constantine V. Domingo	
PCO Accreditation No(s).	2019-RVIII-0057 2019-RVIII-0054 2019-RVIII-0032 2019-RVIII-0053 2019-RVIII-0055 2019-RVIII-0065 2019-RVIII-0064	Date of Effectivity: 04/17/2019 04/15/2019 03/04/2019 04/15/2019 04/15/2019 05/09/2019 05/09/2019
Phone/Fax	(053) 525-1000/ (02) 889-6324	Email: Edmundo.Esguerra@pasar.com.ph

2. PURPOSE OF VERIFICATION

Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modifications

	New	Renewal
<input type="checkbox"/> PMPIN Application	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste ID Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste Transporter Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste TSD Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Permit to Operate Air Pollution Control Installation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Discharge Permit	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Others		

Determine compliance status with environmental regulations, permit conditions, and other requirements

- Investigate community complaints
 Check status of commitment(s)
 Industrial EcoWatch Program
 Philippine Environmental Partnership Program (PEPP)
 Pollution Adjudication Board (PAB)
 Others _____

Others SMR Evaluation

3. COMPLIANCE STATUS

3.1 DENR Permits/Licenses/Clearances

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC 1	ECC-CO-1310-0033	10/21/2013	
	ECC 2	ECC-OL-R08-2019-0142	08/14/2019	
RA 6969	DENR Registry ID	OL-GR-R8-37-004625	09/21/2020	
	PCL Compliance Certificate Perchloroethylene Selenium powder	PCL-OL-2018-1728 PCL-OL-2019-2600	03/19/2018 09/22/2019	03/19/2019 09/22/2020
	CCO Registry PCB Asbestos Mercuric (metallic) Lead (amended) Lead(Lead containing anode slimes) Cyanide (amended) Mercury (<i>Mercury (II), nitrate; Mercury; Mercury Technical Grade</i>)	CCO-PCB-R8-PHI-11 CCO-2008-0006 CCO-2012-0001 CCOr-Pb-2018-00013 amended CCOr-Pb-2018-00013 CCOr-Cn-R8-2016-00001 CCOr-R08-Hg-2018-00141 amended	10/27/2015 08/19/2008 11/28/2012 11/18/2019 11/18/2019 03/22/2016 08/28/2019	
	Importation Clearance No. Lead Oxide (Litharge) Lead (Lead Ingots/Bars) Lead (Lead containing Anode Slimes) Mercury (Mercury)	CCOi-Pb-2019-00625 CCOi-Pb-2018-00027 CCOi-Pb-2019-00624 CCOi-R08-Hg-2018-00243	11/18/19 4/19/18 11/18/19 9/04/18	11/118/2020 10/19/18 05/18/2020
	Small Quantity Importation Clearance 4,4'isopropylidenediphenol (Hawoferran R 16 Component B)	SQI-R08-19-02062	08/2/2019	
	PMPIN Compliance Certificate Cement copper Iron chromite Thorin indicator Petroleum Coke, Calcined-METZ 12PHF Powder	PMPIN-2014-145 PMPIN-OL-2016-066 PMPIN-OL-2016-128 PMPIN-OL-2017-417	10/29/2014 01/08/2016 04/19/2016 12/6/2017	
RA 8749	Permit to Transport			
	TSD Registration Certificate	TR-R8-37-00002	05-26-2020	05-20-2021
	Permit to Operate - Smelting Plant - 2060 KW MTU Gensets - By-product Storage Building - Refinery Plant - Dore Plant - Cummins Generator Sets - Acid Plant - Slag Flotation Plant - 31 KVA Genset (Hospital - Port Genset	- PTO-OL-R08-2022-02014-R - PTO-OL-R08-2022-02218-TR - PTO-OL-R08-2022-02007-R - PTO-OL-R08-2022-02226-TR - PTO-OL-R08-2022-02009-R - PTO-OL-R08-2022-02221-TR - PTO-OL-R08-2022-02233-R - PTO-OL-R08-2022-02013-R - PTO-OL-R08-2020-0666-R - 18-POA-A-0837-0011	03/11/2022 03/17/2022 03/11/2022 03/17/2022 03/11/2022 03/17/2022 03/11/2022 03/17/2022 03/11/2022 09/03/2020 01/07/2019	03/11/2023 06/17/2022 0311/2023 06/17/2022 03/11/2023 06/17/2022 03/17/2023 06/17/2022 03/11/2023 09/03/2025 01/07/2024
RA 9003	ECC for Sanitary Landfill			
RA 9275	Discharge Permit			

	BP 5 BP 6 BP 8 with FFP OWS @ MEMS Run-off collection (Port Settling Pond)	DP-RO8-20-03766 DP-RO8-20-03767 DP-RO8-22-02040 DP-RO8-20-03768 DP-RO8-20-04951	09/03/2020 09/03/2020 03/15/2022 09/03/2020 10/27/2020	09/03/2021 09/03/2021 03/15/2023 09/03/2021 10/27/2021
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3.2 Summary of Compliance

The table below summarizes the compliance of PASAR Corporation to applicable laws and citations.

Compliance Requirements	Complied			Remarks
	Yes	No	Partial	
PD 1586: Environmental Compliance Certificate (ECC) Conditionalities				
ENVIRONMENTAL MANAGEMENT				
1. Conduct an effective Information, Education and Communication (IEC) Program to inform and educate all stakeholders about the mitigating measures embodied in its EPRMP, the conditions stipulated in this Certificate and the environmental and human safety features of the project. The program shall be submitted to EMB Central Office on an annual basis;	✓			First Quarter CY 20222 Information, Education, and Communication (IEC) Campaign Activity was conducted on 16 February 2022.
2. Implement a Comprehensive Social Development Program (SDP) and submit on a semi-annual basis a separate report together with the Compliance Monitoring Report (CMR) to the EMB Central Office, copy furnished EMB Region VIII;	✓			2 nd semester CMR for CY 2021 was submitted through the EMB online system.
3. Conduct a socio-economic study which shall start three (3) years thereafter to determine the impact of social development interventions of the project on the communities;	✓			Final report was submitted to EMB8 on December 6, 2019. Scheduled to conduct a socio-economic study this year.
4. Maintain existing buffer zones along the entire periphery of the project site with appropriate species/dense vegetation cover to enhance the condition of the ecosystem and to serve as noise, vibration and dust buffers, in coordination with LIDE Management Corporation (LMC);	✓			Buffer zones are maintained. Inventory as of February 2022: LMC Pumping Station - 710 Tree Grove Area: 4,940 LIDE Bufferzone (Site II) - 3,514 Mangrove Area (Dike Area) - 17,070
5. Conduct Quantitative Risk Assessment (QRA) and hazard operability (HAZOP) prior to commissioning to ensure that hazards and risk are kept at the minimum. The report shall be submitted to EMB Central Office and EMB Region VIII within sixty (60) days from the conduct of the QRA. At the minimum, the QRA shall be updated if there are major changes;	✓			One time submission. <i>Note:</i> QRA was submitted to EMB Central Office on July 6, 2015, while HAZOP report was submitted as included in the 2015 2 nd semester CMR on January 15, 2016.
6. Conduct an air dispersion modeling in order to validate appropriate air quality monitoring stations within a five kilometer radius to be conducted within six (6) months:	✓			One time compliance. <i>Note:</i> Air Dispersion Modelling Report was submitted to EMB CO on April 25, 2014.
7. Establishment of a reforestation and carbon sink program using endemic/indigenous species to mitigate greenhouse gas (GHG) emissions from the project in line with the DENR thrust for GHG emission reduction programs and the National	✓			Maintenance of trees planted under the reforestation and carbon sink program is ongoing.

Greening Program. The program shall be submitted to EMB Central Office and EMB Region VIII thirty (30) days upon receipt of this Certificate;			<p>To comply with DENR Memorandum Order 2012-02, a 25-ha forest land was allocated by CENRO and PENRO for the tree replacement project at Brgy. Consolacion, Isabel (reforestation project site 1) and Brgy. Puting-Bato, Isabel (reforestation project site 2). Initial target is 45,000 seedlings. project will start this year 2022 after tri-partied MOA (PASAR-DENR-people's Organization) has been signed.</p> <p>Indigenous tree species (yakal, narra, molave, etc.) will be planted on areas that will not be used as storage facility for iron concentrate.</p> <p>Planted trees to date: 3,450 seedlings.</p> <p>Note: Reforestation and Carbon Sink Program was submitted to EMB Central Office per EMB CO acknowledgement receipt dated May 20, 2014.</p>
General Conditions			
<p>8. The plant operations shall conform to the provisions of RA 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990), RA 8749 (Philippine Clean Air Act of 1990), RA 9003 (Ecological Solid Waste Management Act of 2000), and RA 9275 Philippine Clean Water Act of 2004) and other relevant policies, rules and regulations;</p> <p>9. The proponent shall continue to implement the following:</p> <p>9.1 The readily available and replenishable Environmental Guarantee Fund (EGF) to cover the following expenses:</p> <ul style="list-style-type: none"> 1) Further environmental assessment, compensation/ indemnification for whatever damages to life and property that may be caused by the project; 2) Rehabilitation and restoration of areas affected by the project's implementation; 3) Abandonment/ decommissioning of the project facilities related to the prevention of possible negative impacts and as a source of fund for the contingency and clean-up activities; <p>9.2 A Multipartite Monitoring Team composed of representative(s) from the proponent, EMB Region VIII, a local environmental Non-Government Organization (NGO) and the LGUs concerned shall be organized. The MMT shall</p>	✓		<p>Regular permits issued for Air Pollution Sources and Control Facilities are valid until March 11, 2023. Issued temporary permits have validity until June 17, 2022.</p> <p>BP 8 Wastewater Discharge Permit is valid until March 15, 2023. Renewal applications for other permits are on process.</p> <p>TSD Registration Certificate expired on May 20, 2021. Renewal of the application is still in process.</p>

<p>primarily oversee the compliance of the proponent with the Environmental Management Plan/Environmental Monitoring Plan as well as the conditions of its ECC;</p> <p>9.3 A replenishable Environmental Monitoring Fund (EMF) that shall cover all cost attendant to the operation of the MMT such as training, sampling and analysis, the hiring of technical experts, accommodations and transportation.</p> <p>The amount and mechanics of the EGF, EMF and the establishment of the MMT shall be determined by the EMB Central Office and the proponent in coordination with EMB Region VIII through a Memorandum of Agreement (MOA) which shall be submitted within sixty (60) days from receipt of this Certificate;</p>			<p>approved by the EMB Central Office.</p> <p>MMT activity for the 3rd and 4th quarters for CY 2021 were conducted on September 29-30, 2021 and December 14-15, 2021 respectively. For the 1st quarter of CY 2022, MMT was conducted on March 2-3, 2022.</p> <p>CMVRs were submitted to EMB CO on January 12, 2022.</p> <p>Environmental Monitoring and Environmental Guarantee Fund was approved on September 4, 2019.</p>
<p>10. Strengthen the Environmental Unit (EU) that shall competently handle the environmental-related aspects of the project and submit the revised EU set-up within sixty (60) days from the issuance of this Certificate. In addition to the monitoring requirements as specified in the Environmental Management Plan/Environmental Monitoring Plan, the EU shall have the following responsibilities;</p> <p>a. Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the EPRMP;</p> <p>b. Recommend revision of the EMP/EMOP, whenever necessary subject to the approval of EMB Central Office. Revision should also consider the result of the validation of air dispersion and thermal plume modeling;</p> <p>c. Ensure that data gathered during monitoring activities are properly documented, assessed, evaluated and reported to EMB (Central Office and EMB Region VIII) in accordance with the prescribed formats; and</p> <p>d. Ensure that monitoring and submissions of reports to EMB (Central Office and EMB Region VIII) are carried out as required;</p>	✓		<p>Managers/Area Owners/ Superintendents have attended the Basic Pollution Control Officer Training. Nine (9) accredited PCOs of the company were approved by the Office.</p> <p>Managing Head is John Joven S. Chiong, while over-all PCO is Edmundo Esguerra.</p>
<p>11. The proponent shall ensure that its contractors and sub-contractors strictly comply with the relevant conditions of this Certificate;</p>	✓		<p>Contractors are required to follow waste management plan of PASAR. Presentation is included during the safety indoctrination activity.</p> <p>Contractors must ensure compliance of the facilities to environmental laws.</p>
II. Restrictions			
<p>12. No activities shall be undertaken other than those what is stipulated in the final EPRMP. Should there be any expansion of the project beyond the project description or any change in the activity or transfer of location shall be subject to a new Environmental Impact Assessment; and</p>	✓		<p>Implementation of the project is as planned.</p>
<p>13. In case of transfer of ownership of this project, these same conditions and restriction shall apply and the transferee shall be required to notify the EMB within fifteen (15) days from the transfer of ownership to allow the necessary changes brought about by such changes.</p>		✓	<p>There was no transfer of ownership made on the project.</p>

Compliance to EMP Commitments

PROJECT IMPACTS	MITIGATING MEASURES		EFFECTIVE?		RECOMMENDATION
	PLANNED	ACTUAL	Y	N	
I. Operation Phase – Plant-wide					
Generation of dust affecting workers	1. Install dust collection hoods. 2. Provide PPE to workers. 3. Maintain dust abatement facilities in good operating conditions 4. Improve area ventilation	1. Dust collection systems have been installed and maintained. 2. Additional APCF were installed during expansion and are now operational 3. PASAR and contractors supply their workers with the appropriate PPEs required of the tasks being done 4. Parameters for operation of dust abatement facilities are being monitored. Repairs are immediately done when necessary. 5. Three mechanical street sweepers are operational.	✓ ✓ ✓		
Emitting fugitive gaseous emission	1. Installation of desulfurization plant to treat gaseous emission. 2. Maintenance of different anti-pollution control facilities already in place.	1. Desulfurization Plant for fugitive gases is operational. 2. Parameters for operation of air pollution control facilities are being monitored and maintenance is being done regularly.	✓		
Siltation of drainage system	1. Conduct daily inspection of drainage canals. 2. Conduct de-clogging/cleaning	1. Contractual workers maintain the drainage canals which includes de-clogging and recovery of materials 2. One unit street sweeper is in operation 24/7 to recover materials on roads.	✓ ✓		
Effluent discharges	1. Conduct religious monitoring of discharges. 2. Implement mitigating measures to reduce impact of discharges (recycling, etc.)	1. Daily monitoring of settling ponds is conducted. 2. Recycling of wastewater from the wastewater treatment facility at Acid Plant and BP 8 is being done. 3. Treatment chemicals are used to treat wastewater prior to discharge.	✓ ✓ ✓		
Depletion of fresh water resources	1. Implement water conservation program 2. Recycle treated water to process	1. Recycling of wastewater back to process is being done.	✓		
Cooling water discharge to the sea causing thermal pollution	1. Improve cooling pond discharge system from single point discharge system to another system that will further reduce the exit temperature of the water	1. Dike had been provided to allow the cooling water to reduce its temperature. 2. Ongoing determination of improvement is being done.	✓		
Low pH discharge and high temp that may impact the aquatic biodiversity	1. Monitor temperature of discharge water at the outlet. 2. Monitor temperature at designated mixing zone of the receiving body.	1. Monitoring of temperature of discharge water is regularly conducted. 2. Monitoring of temperature of coastal water mixing zone is regularly conducted. 3. Neutralization using caustic soda is being implemented.	✓ ✓ ✓		

	<p>3. Regulate discharge pH by neutralization with lime.</p> <p>4. Install online pH meter for monitoring aspect.</p>	<p>4. Online pH and temperature meter is installed at BP5.</p>	✓		
Use of fuel. Depletion of non-renewable energy.	<p>1. Change concentrate drying technology utilizing steam dryer in lieu of flash drying, eliminating the expensive fuel burning technology</p>	<p>1. The steam dryer has replaced the flash dryer and is now operational.</p>	✓		
II. Operation Phase – SSG Management					
Emission of dusts	<p>1. Provide adequate PPEs to workers.</p> <p>2. Dry fine materials should be kept in its containers.</p> <p>3. Regular water spraying of processing area.</p>	<p>1. Workers working with SSG are provided with the appropriate PPEs required.</p> <p>2. SSG are stored inside bunker.</p> <p>3. Regular housekeeping is done.</p>	✓		
Contamination of land	<p>1. Implement Standard Operating Procedure for handling of SSG.</p> <p>2. Provide containers for SSG that will be used or processed</p> <p>3. Store SSG in secure storage area, not affected by rain</p>	<p>1. SOP in handling is being followed.</p> <p>2. SSG are solidified prior to storage inside bunker.</p>		✓	
Discharge of untreated wastewater	<p>1. Provide settling pond that will serve as wastewater treatment facility for washing from equipment.</p> <p>2. Collect sludge and re-use in process.</p> <p>3. Regular monitoring of effluent discharges.</p>	<p>1. Processing is done within the bunker which is provided with leachate collection system.</p> <p>2. Regular coastal monitoring and effluent monitoring is conducted at discharge points.</p>	✓		
Depletion of resources	<p>1. Implement resource conservation programs</p> <p>2. Recycle treated wastewater to process</p> <p>3. Recycle recovered materials to the process</p>	<p>1. Resources used are being maximized and wastage minimized.</p> <p>2. Scraps are being used.</p>	✓		
Noise generation and dust emission	<p>1. Provide workers with adequate PPE at workplace with high level noise and dust emissions.</p>	<p>2. Workers working with SSG are provided with the appropriate PPEs required.</p>	✓		
Contamination of coastal water	<p>1. Provide HDPE-liner and leachate collection system for the bunker and landfill</p> <p>2. Provide sump pit for the retrieval of leachate</p>	<p>1. Bunker is provided with leachate collection system with sump pit.</p>	✓		

	3. Treatment of leachate in the Wastewater Treatment Plant.			
Contamination of ground water	1. Daily monitoring of leachate sump 2. Collection of leachate for treatment at the Wastewater Treatment Plant. 3. Installation of monitoring wells for HDPE-lined bunkers and/or landfills.	1. Daily monitoring of bunker is being conducted including sump. 2. Quarterly monitoring of monitoring wells is conducted.	✓	

Applicable Laws and Citations	Compliance Requirements	Compliant			Remarks
		Yes	No	N/A	

RA 6969 Toxic Substances and Hazardous and Nuclear Wastes Control Act

Priority Chemicals List	Valid PCL Compliance	✓		PCL exemption for the following chemicals: Arsenic acid, Chloroform, Chromium chloride (III), Potassium chromate, Potassium dichromate, Phenol and Selenium pellet/shot was approved on March 19, 2018. However, pursuant to DAO 2021-09 Chromium VI Compounds to secure CCO Registration.
	Annual Reporting	✓		Notarized Annual Report shall be submitted during the renewal of application per DAO 2007-23
Chemical Control Orders	Biennial Report for those chemicals that are for issuance for CCO	✓		As per issued CCO Registration Certificate Condition No. 4. Usage and disposal of chemical under CCO shall be reported in the quarterly SMR
	CCO Registration	✓		PCB Management Plan for updating thru pcb.emb.gov.ph
Importation	Valid Small Quantity Importation Clearance	✓		
Hazardous Waste Generator	Registration as Hazardous Waste Generator	✓		Updated DENR ID Registration
	Reporting of hazardous waste generated	✓		Inventory of generated HW is indicated in the quarterly submitted SMR.
Hazardous Waste Storage and Labelling	Classification of Hazardous Wastes	✓		
	Hazardous Waste Storage and Labelling		✓	Proper labeling and storage of hazardous wastes was observed at Waste Storage Area (WASA). Proper handling and storage of neutral cake (SSG) pursuant to

					Section 3.5 of DAO 2013-22 is not fully implemented.
Waste Transporter; Waste Transport Record; Waste Treatment and Disposal Premises	Valid registration of transporters and treaters	✓			Has submitted the valid registration of Transporter and Treater.
	Compliance with Manifest System (Waste Transport Record)	✓			Submitted within Seven (7) days after the conduct of Transport
	Valid completed certificate of treatment	✓			Submitted within 45days from the time of acceptance by the Treater.

HW No.	HW Class	HW Nature	HW Cataloguing	Remaining HW from Previous Report (as of 3rdQ 2021)		HW Generated (as of 4thQ 2021)	
				Quantity	Unit	Quantity	Unit
A101	Waste laboratory chemicals with Cyanide	Solid	Toxic	0	MT	0	MT
B201	Acidic sludge	Solid	Corrosive	15	WMT	7	MT
B202	Hydrochloric Acid	Liquid	Corrosive	0	MT	0	MT
B208	Waste organic acid	Solid	Corrosive	0	MT	0	MT
D401	Waste laboratory chemicals (liquid) – with Selenium	Liquid	Toxic	0	MT	0	MT
D402	Waste laboratory chemicals (liquid) – with Arsenic	Liquid	Toxic	0	MT	0	MT
D404	Alkali waste (SSG)	Solid	Toxic	53,279.410	WMT	0	MT
D404	Neutralizing Slag (Neutral Cake)	Solid	Toxic	69,101.89	WMT	2,821.33	WMT
D404	Waste laboratory chemicals (liquid) – with Cadmium	Liquid	Toxic	0	MT	0	MT
D405	Waste laboratory chemicals (liquid) – with Chromium	Liquid	Toxic	0	MT	0	MT
D406	Used batteries	Solid	Toxic	12.088	MT	0	MT
D406	Lead contaminated cupels	Solid	Toxic	0	MT	5	MT
D406	Waste laboratory chemicals (solid) – with Lead	Solid	Toxic	0	MT	0	MT
D406	Waste laboratory chemicals (liquid) – with Lead	Liquid	Toxic	0	MT	0	MT
D407	Busted fluorescent bulb	Solid	Toxic	3	MT	1	MT

D407	Waste laboratory chemicals (liquid) – with Mercury	Liquid	Toxic	0.012	MT	0	MT
D407	Waste laboratory chemicals (solid) – with Mercury	Solid	Toxic	0	MT	0	MT
D499	Waste laboratory chemicals (liquid) – mixed	Liquid	Toxic	2.041	MT	0.3	MT
F601	Waste Paints	Liquid	Flammable	0.639	MT	0	MT
F604	Used catalyst (Vanadium Pentoxide)	Solid	Corrosive	0	MT	40	MT
G703	Halogenated Organic Solvent (choloform)	Liquid	Toxic	74.82	MT	45	MT
G704	Non-halogenated organic solvents	Liquid	Toxic	2	MT	2	MT
H802	Waste Grease	Solid	Toxic	0.03	MT	0	MT
I101	Used oil	Liquid	Flammable	59.1/34.376	MT	25.8	MT
I104	Used oil filter	Solid	Flammable	0.52	MT	2	MT
J201	Empty acid bottle	Solid	Corrosive	10.57/3.25	MT	4	MT
J201	Empty refrigerant Tank	Solid	Toxic	0	MT	0	MT
M501	Pathogenic or Infectious Wastes	Solid	Infectious	1.825	MT	0.83	MT
M502	Used asbestos	Solid	Toxic	3.65	MT	5.0	MT
M503	Pharmaceutical Wastes	Solid	Toxic	0.194	MT	0.03	MT
M506	WEEE	Solid	Toxic	5.526	MT	0	MT

*Highlighted columns/rows consist of data that are no longer included in the Module 2B: Inventory of Hazardous Wastes of submitted 1ST and 2ND Quarter SMR

CHEMICAL NAMES (NOT TRADE NAME)	CAS NUMBERS	FORMULA	UM	QUANTITY ISSUED (IN CCO)	CHECK (<input type="checkbox"/>) IF IT IS SUBJECT TO SPECIFIC REGULATION
ANODE, LEAD	7439-92-1	Pb	MT	120	<input type="checkbox"/> CCO
AMMONIUM THIOCYANATE	1762-95-4	NH4SCN	KG	100	<input type="checkbox"/> CCO
INGOT, LEAD, VIRGIN, 99% MINIMUM, Pb: 99	7439-92-1	Pb	MT	350	<input type="checkbox"/> CCO
LEAD ACETATE, TRIHYDRATE, GRANULAR, AR, PURITY: 99%	6080-56-4	C4H12O7P b	MT	0.01	<input type="checkbox"/> CCO
LEAD CONTAINING ANODE SLIMES	7446-14-2	Pb	MT	280	<input type="checkbox"/> CCO
LEAD, FOIL, UNIVAR, Pb = 207.2, SOFT, BLUISH, GRAY	7439-92-1	Pb	MT	0.15	<input type="checkbox"/> CCO
LEAD, SHEET, 1200MM X 1200MM X 3MMT	7439-92-1	Pb	MT	27	<input type="checkbox"/> CCO
LEAD (COPPER BOTTOM ALLOY)	7439-92-1	Pb	MT	700	<input type="checkbox"/> CCO
LITHARGE (LEAD OXIDE), YELLOW, 99.999% PURE, GOLD	1317-36-8	PbO	MT	6	<input type="checkbox"/> CCO
LEAD, COPPER CONCENTRATE	7439-92-1	Pb	MT	5,000	<input type="checkbox"/> CCO
POTASSIUM CYANIDE, AR, PURITY: 97% MINIMUM	151-50-8	KCN	KG	1	<input type="checkbox"/> CCO
Polychlorinated Biphenyls (PCBs)	1332-21-4			0	
Lead Atomic Absorption Spectrophotometer Standard	10099-74-8	Pb	MT		

Potassium hexacyanoferrate (III) & P	13746-66-2 & 14459-95-1		KG	500	<input type="checkbox"/> CCO
Potassium hexacyanoferrate trihydrate (II)					
SOLUTION, ATOMIC ABSORPTION STANDARD, LEAD (Pb)	10099-74-8	Pb	ML	835	<input type="checkbox"/> CCO
ARSENIC	7440-38-2	As	MT	0.250	<input type="checkbox"/> CCO
ARSENIC ACID	7778-39-4	As	MT	0.0004	<input type="checkbox"/> CCO
ARSENIC TRIOXIDE (Arsenic 10000ppm single element standard for ICP HNO3)	1327-53-3	As	MT	0.000150	<input type="checkbox"/> CCO
ARSENIC TRIOXIDE (Arsenic III Oxide)	1327-53-3	As	MT	0.0000350	<input type="checkbox"/> CCO
ARSENIC TRIOXIDE (ICP multi element standard solution XV1)	1327-53-3	As	MT	0.000012	<input type="checkbox"/> CCO
ARSENIC TRIOXIDE (STD ZOD multi element 100pm)	1327-53-3	As	MT	0.000075	<input type="checkbox"/> CCO
Mercuric Chloride	7487-94-7	HgCl	MT	0.0005	<input type="checkbox"/> CCO
Mercury Standard Solution (Mercury (II) Nitrate)	10045-94-0	Hg(NO3)2	MT	0.005	<input type="checkbox"/> CCO
Mercury Technical Grade	7439-97-6	Hg	MT	0.005	<input type="checkbox"/> CCO
Mercury	7439-97-6	Hg	MT	0.00025	<input type="checkbox"/> CCO
Mercury	7439-97-6	Hg	MT	0.015	<input type="checkbox"/> CCO

Applicable Laws and Citations	Compliance Requirements	Compliant			Remarks
		Yes	No	N/A	

RA 8749: Philippine Clean Air Act

Permit to Operate (Air)	With Valid POA	✓		Permits issued for Air Pollution Sources and Control Facilities for Smelting Plant, DORE Plant, Slag Flotation Plant, By-Product Storage Facility and Acid Plant are valid until March 11, 2023 and March 17, 2023. Temporary permits issued have validity until June 17, 2022 for other facilities Refinery Plant, 1000 KW Cummins GenSet, and 2060 KW MTU GenSet..
	All emission sources is covered by a valid POA	✓		
	POA is displayed in a conspicuous place near the installation.	✓		
	All Permit Conditions are complied with		✓	
	Wind direction device is installed (if applicable)	✓		Weather station is established.
	Plant operational problems lasting for more than 1 hour should be reported to EMB within 24 hours	✓		
	CCTV installed (for large sources only)	✓		CCTV cameras were installed at the strategic location inside the process areas.
	CEMS/PEMS installed (for petroleum refineries,	✓		CEMS were installed at Desulfurization Plant Stack and acid Plant stack for SO2 and

	power/cement plants or sources emitting 750 Ton/yr)				PM, SO2 and NO2 parameters respectively.
	Yearly RATA/Quarterly CGA conducted (for sources with CEMS)	✓			Online testing of the CEMS Data transmission to the EMB CO Data Acquisition and Handling System is ongoing on or before the end of May 2022.
Emission Testing (if applicable)	Compliance with emission standards?	✓			The Relative Accuracy Test Audits for Continuous Emission Monitoring Systems (CEMS) installed at Acid Plant for SO2 and NO parameters and at Desulfurization Plant for SO2 parameter were conducted on April 7 - 8, 2021 by SGS Philippines Incorporated. All CEMS passed the Relative Accuracy criteria.
Ambient Testing (if applicable)	Compliance with ambient air quality standards?	✓			Third-party source emission testing for the Acid Plant, Desulfurization Plant, and DORE Plant stacks was conducted on October 21-30, 2021 by SGS Philippines, Inc. Results were compliant to DENR emission standards. Desulfurization Plant- October 21-23 ,2021 Acid Plant - October 25-27,2021 Dore Plant- October 29-30, 2021.
RA 9275: Philippine Clean Water Act					
Discharge Permit (DP)	With valid Discharge Permit		✓		Renewed permit for BP 8 valid until March 15, 2022. The renewal of applications for other discharge outlets BP 5, BP 6, MEMS Outfall, and Port Settling Pond is ongoing.
	Volume of discharge consistent with DP issued?	✓			
	All permit conditions are complied with?		✓		
	With working flow metering device (if applicable)		✓		The Digital flow meter installed at BP 6 was non-operational.

	Certified septage siphoning hauled by accredited service provider.	✓			Davao JLU Septic Tank Cleaning and Planning Services rendered services at PASAR Corp. on March 01, 2022, for siphoning off the 5 -units septic tank located at SFP, Bagging House, Refinery, and Maintenance Building.
Effluent Test Results (if applicable)	In compliance with effluent standards	✓			
Ambient water quality monitoring (if applicable)	With ambient water quality monitoring results.	✓			
Wastewater charge system (if applicable)	Payment of wastewater charges	✓			Payment of LBF at BP 6 for CY 2020 and 2021 is still on process.

BP-6 Effluent

PARAMETER	RESULT		DENR STANDARD S	EQPL*			REMARKS
	CURRENT (03/16/2022)	PREVIOUS (07/06/2021)		RED FLAG	ACTION	LIMIT	
1 pH	8.02	7.86	6 – 9	6.5	7.5	9	
2 Temp	35.1	37.0	3 °C rise		28C~31 C	3 degrees rise max outside mixing zone	
3 TSS	11		100 mg/L	40	50	60	
4 Cu			0.04 mg/L	0.30	0.7	0.9	
5 As			0.04 mg/l	0.10	0.2	0.4	
6 Cd			0.01 mg/l	0.03	0.06	0.1	
7 Hg			0.004 mg/l	0.004	0.006	0.008	
8 Pb			0.1mg/l	0.1	0.2	0.45	
9 Oil & Grease			10 mg/l	3	6	13	
10 Zn			1.5 mg/L	3.0	5	8	
11 Ni			0.3 mg/L	0.20	0.5	0.85	
12 Cr6			0.1 mg/l	0.05	0.08	0.15	

BP-5 Effluent

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT (03/16/2022)	PREVIOUS (07/06/2021)		RED FLAG	ACTION	LIMIT	
1 pH	7.79	7.82	6 – 9	6.5	7.5	9	
2 Temp	30.9	30.6	3 °C rise		28C~31C	3 degrees rise max outside mixing zone	
3 TSS	4		100 mg/L	40	50	60	
4 Cu, dissolved			0.04 mg/L	0.30	0.7	0.9	
5 As			0.04 mg/l	0.10	0.2	0.4	
6 Cd			0.01 mg/l	0.03	0.06	0.1	
7 Hg			0.004 mg/l	0.004	0.006	0.008	
8 Pb			0.1mg/l	0.1	0.2	0.45	
9 Oil & Grease			10 mg/l	3	6	13	
10 Zn			1.5 mg/L	3.0	5	8	
11 Ni			0.3 mg/L	0.20	0.5	0.85	

12 Cr6			0.1 mg/l	0.05	0.08	0.15	
13 COD			100 mg/l				
14 Se			0.2 mg/l				
15 Mn			4 mg/l				
16 Fe			7.5 mg/l				

BP8

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT (03/16/22)	PREVIOUS (07/06/21)		RED FLAG	ACTION	LIMIT	
1 pH	No discharge	No discharge	6 – 9	6.5	7.5	9	
2 Temp			3 °C rise		28C~31 C	3 degrees rise max outside mixing zone	
3 TSS			100 mg/L	40	50	60	
4 Cu			0.04 mg/L	0.30	0.7	0.9	
5 As			0.04 mg/l	0.10	0.2	0.4	
6 Cd			0.01 mg/l	0.03	0.06	0.1	
7 Hg			0.004 mg/l	0.004	0.006	0.008	
8 Pb			0.1mg/l	0.1	0.2	0.45	
9 Oil &Grease			10 mg/l	3	6	13	
10 Zn			1.5 mg/L	3.0	5	8	
11 Ni			0.3 mg/L	0.20	0.5	0.85	
12 Cr6			0.1 mg/l	0.05	0.08	0.15	

Port Settling Pond

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT (03/16/22)	PREVIOUS (07/06/21)		RED FLAG	ACTION	LIMIT	
1 pH	No discharge	No discharge	6 – 9	6.5	7.5	9	
2 Temp			3 °C rise		28C~31C	3 degrees rise max outside mixing zone	
3 TSS			100 mg/L	40	50	60	
4 Cu, dissolved			0.04 mg/L	0.30	0.7	0.9	
5 As			0.04 mg/l	0.10	0.2	0.4	
6 Cd			0.01 mg/l	0.03	0.06	0.1	
7 Hg			0.004 mg/l	0.004	0.006	0.008	
8 Pb			0.1mg/l	0.1	0.2	0.45	
9 Oil &Grease			10 mg/l	3	6	13	
10 Zn			1.5 mg/L	3.0	5	8	
11 Ni			0.3 mg/L	0.20	0.5	0.85	
12 Cr6			0.1 mg/l	0.05	0.08	0.15	

MEMS (Outfall)

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT (03/16/22)	PREVIOUS (07/06/21)		RED FLAG	ACTION	LIMIT	
1 pH	No discharge	No discharge	6 – 9	6.5	7.5	9	
2 Temp			3 °C rise		28C~31C	3 degrees rise max outside mixing zone	
3 TSS			100 mg/L	40	50	60	
4 Cu, dissolved			0.04 mg/L	0.30	0.7	0.9	
5 As			0.04 mg/l	0.10	0.2	0.4	
6 Cd			0.01 mg/l	0.03	0.06	0.1	
7 Hg			0.004 mg/l	0.004	0.006	0.008	
8 Pb			0.1mg/l	0.1	0.2	0.45	

9 Oil &Grease			10 mg/l	3	6	13	
10 Zn			1.5 mg/L	3.0	5	8	
11 Ni			0.3 mg/L	0.20	0.5	0.85	
12 Cr6			0.1 mg/l	0.05	0.08	0.15	

Abstracted Water: Sea Water Intake

PARAMETER	RESULT		REMARKS
	CURRENT 03/17/22	PREVIOUS 07/06/21	
1 pH	8.05	7.98	
2 Temp	29.2	30.2	
3 TSS			
4 Cu			
5 As			
6 Cd			
7 Hg			
8 Pb			
9 Oil & Grease			
10 Zn			
11 Ni			
12 Cr6			

MONITORING WELLS

MW SWI

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS (01/17/20)		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Guesthouse

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Barracks

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				

2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Auditorium

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Bunker

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Lepanto North

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW Lepanto South

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

MW BP8

PARAMETER	RESULT		DENR STANDARDS	EQPL*			REMARKS
	CURRENT	PREVIOUS		RED FLAG	ACTION	LIMIT	
1 pH			6.5-9.0				
2 Temp			25-31				
3 TSS			80 mg/L				
4 Cu, dissolved			0.02 mg/L				
5 As			0.02 mg/l				
6 Cd			0.005 mg/l				
7 Hg			0.002 mg/l				
8 Pb			0.05 mg/l				
9 Oil &Grease			2 mg/l				
10 Zn			2 mg/L				
11 Ni			0.2 mg/L				
12 Cr6			0.01 mg/l				

Applicable Laws and Citations	Compliance Requirements	Compliant			Remarks
		Yes	No	N/A	
RA 9003 Ecological Solid Waste Management Act					
Waste Segregation	Practice of Waste Segregation		✓		Mixed solid wastes were noted temporarily disposed/stored at the Plant's scrap metal yard area near the Hazardous Waste Bunker Facility.
Solid Waste Disposal Facilities	Installation of necessary controls for waste treatment and disposal facility		✓		Disposal of general wastes thru Symphonas Enterprises in Cebu City.
Pollution Control Officer Accreditation					
DAO 1992-26 or Revised Guidelines on PCO Accreditation	Valid Accreditation of PCO		✓		Nine (9) Accredited Pollution Control Officers
Self-Monitoring Report					
DAO 2003-27	Complete and Timely submission of SMR's		✓		4 th quarter 2021 SMR was submitted on January 14,2002 through the EMB online system.

3.3 Summary of Findings and Observations

3.3.1. Environmental Impact Statement System

Compliant

Non-compliant

Not applicable

- At the time of monitoring, the Flash Smelting Furnace is operating at 45% capacity. It has an average feed rate of 108 tons/hr of copper concentrate with an average daily production output of 540.10MT/day copper cathodes.
- PASAR Environmental Team headed by Engr. Edmundo P. Esguerra. Ms. Venus Aratia is in charge of Compliance and Permitting, Mr. Lawrence Araojo - Land and Solid Waste Management, Ms. Hannahlee Sanchez- Water Compliance Management, and Ms. Estela Cuadrado - Air Emission Management.
- The 3rd and 4th quarters of CY 2021 Multi-Partite Monitoring Team (MMT) activities were conducted on September 29-30, 2021, and December 14-15, 2021. For the 1st quarter of CY 2022, MMT was held on March 2-3, 2022. CMVR reports were prepared and submitted to the EMB Central Office copy furnished EMB R8 on
- Orientation on Environmental Laws for the newly Multipartite Monitoring Team members of PASAR Corp. was conducted by EMB Technical Personnel last
- PASAR Finance Department, Civic Services, and Multi-Partite Monitoring Team (MMT) joined the series of tree planting activities at the PASAR Tree Grove Area and Iron Concentrate Storage Area (ICSA) on October 16, 28, and 30, respectively. The teams planted 500 Bagtikan and Bitanghol seedlings at the PASAR Tree Grove Area and more than 400 Narra and Yakal seedlings at the Iron Concentrate Storage Area. This activity is in line with the company's continuous commitment to environmental protection and preservation initiatives.
- PASAR Environment Team joined the Philippine Coast Guard Isabel Station in a mangrove planting activity on October 9, 2021 at Sitio Pasil, Brgy. Marvel, Isabel Leyte. This activity is in line with the agency's series of events for its 120th year anniversary that aims to promote awareness on the preservation and conservation of the environment. Teams from Bureau of Jail Management and Penology, Philippine National Police, and Philippine Ports Authority were also present during the activity. This mangrove planting activity is in coordination with the LGU Isabel Municipal Environment and Natural Resources Office (MENO).
- Construction of Phase-1 4.9-hectare Iron Concentrate Storage Area (ICSA) was already completed last August 16, 2021, while construction of Main Access Road and SFP Access Road is already completed for the hauling operation of iron concentrate at dry stack storage area.
- The two major facilities of the project are the Dry Stack Area and the Settlement Pond. The Support Structures of the Project are the Access Road 1, Access Road 2, Drainage System, and Emergency Spillway.
- Public Consultation on the expansion of Iron Concentrate Storage Area was conducted on March 11, 2022.
- The ICSA was utilized already for the storage of iron concentrate.
- The settlement pond was operational to capture runoff water from the stockpile area. Wastewater Discharge Permit is yet to secure from this Office.
- Slope stabilization is ongoing utilizing the Vetiver grass planted beside the spillway channel and Coco mats installed, and vetiver grass at the Settlement Pond Upstream Area.
- Clearing and improvement at the back of MEMS area is still ongoing at the time of monitoring.
- Request for amendment of Environmental Monitoring Plan (EMoP) for air quality is still under evaluation at the Air Quality Management Section of EMB Central Office.

3.3.2 Chemicals Management

Compliant Non-compliant Not applicable

- Ongoing CCO application for Chromium & Chromium Compounds relative to DAO 2021-19.
- Implemented proper GHS labeling and storage at the Laboratory Chemicals Storage Area provided with emergency equipment such as fire extinguishers, eyewash, and first aid medical kit.
- Safety Data Sheets were properly arranged alphabetically.
- Emergency Evacuation Plans and Procedures were posted.

3.3.3. Hazardous Waste Management

Compliant Non-compliant Not applicable

- TSD Registration Certificate with reference code TR-R8-37-00002 expired on 20 May 2021. The application for the renewal is ongoing.
- The following hazardous wastes were transported and disposed of by the DENR Accredited Transporter and Treater Cleanaway Philippines Inc. on September - October 2021: 40.33T Lead contaminated cupels; 50T Used Catalyst (Vanadium Pentoxide); 0.18 Li Halogenated Organic Solvent (Chloroform); 12.48 MT Oil contaminated materials; 1.43 MT Contaminated empty containers; 3.3 MT Pathogenic or Infectious Waste; 1.35 MT Asbestos Containing Material and 0.5 MT Pharmaceutical Wastes.
- A total of 51MT of used was hauled and transported by Genetron International Marketing in November 2021. COT submitted to EMB R3 and EMB R8.
- Stored hazardous wastes were covered with new canvass and good housekeeping was observed in the area. Proper labeling and storage of hazardous wastes was observed at Waste Storage Area (WASA).
- The BK-15 capping is ongoing at 90% completion. Treatment of neutral cake was temporarily stopped after the expiration of the TSD permit. The TSD registration application renewal was submitted on April 26, 2021, thru EMB Online Hazardous Waste Management System with application reference number 43387 still pending.

6. The stockpile of the generated neutral cake observed was stored and covered with canvass near the Waste Acid Neutralization Plant. Run-off is visible in the drainage canal leading to BP 5. The neutral cake generated has no designated area for temporary storage before the final treatment and disposal at the BK 15.
7. BK-15 is 90% capped. However, a gap at the upper right portion of the Bunker situated at 10.88906N, 124.43845E was observed. The management has not yet submitted to EMB Central Office, the proposed site for a new bunker facility for evaluation and site validation.
8. The by-products stored at the By-Product Storage Area were covered with tarpaulin. Canals in the area need desilting.
9. To improve SMR preparation of Module 2B pursuant to DAO 2003-27.

3.3.4. Air Quality Management

Compliant Non-compliant Not applicable

1. Permits issued for Air Pollution Sources and Control Facilities for Smelting Plant, DORE Plant, Slag Flotation Plant, and By-Product Storage Facility are valid until March 11, 2023, and March 17, 2022, for Acid Plant. Temporary permits for other facilities such as Refinery Plant, 1000 KW Cummins GenSet, and 2060 KW MTU GenSet are valid until June 17, 2022, due to no emission test results.
2. The Relative Accuracy Test Audits for Continuous Emission Monitoring Systems (CEMS) installed at Acid Plant for SO₂ and NO parameters and at Desulfurization Plant for SO₂ parameter were conducted on April 7 - 8, 2021 by SGS Philippines Incorporated. All CEMS passed the Relative Accuracy criteria.
3. CEMS readings during the monitoring on March 16, 2022 @ 2:30 PM are the following: 1) Acid Plant Stack SO₂=118.0 ppm, Dust= 122 mg/Ncm; Desulfurization Plant, SO₂=5.3 ppm. The CEMS for NOx as in NO₂ was not functional. It has a zero-reading registered on the monitor at the Acid Plant Control Room. No records presented on the status of CEMS for NO₂.
4. Dark emission was observed at Desulfurization Plant on March 16, 2022 starting @ 3:35 PM.
5. Online testing of the CEMS Data transmission to the EMB CO Data Acquisition and Handling System is ongoing as per submitted Work Plan. The management is given until the end of May 2022 to comply with Memorandum Circular No. 2021-14.
6. Third-party source emission testing for the Acid Plant, Desulfurization Plant, and DORE Plant stacks was conducted on October 21-30, 2021 by SGS Philippines, Inc. Results were compliant to DENR emission standards: Desulfurization Plant- October 21-23, 2021; Acid Plant - October 25-27, 2021; and Dore Plant- October 29-30, 2021.
7. Ambient Air Quality Monitoring was conducted October 14 - 18, 2021 by Ostrea Mineral Laboratories Inc. Results were passed with the DENR ambient air quality standards.

3.3.5. Water Quality Management

Compliant Non-compliant Not applicable

1. Renewed permit for BP 8 valid until March 15, 2022. The renewal of applications for other discharge outlets BP 5, BP 6, MEMS Outfall, and Port Settling Pond is ongoing.
2. Modifications and improvement of BP 5 are ongoing. BP 5 is divided into 2-ponds, for run-off water and treated process wastewater. Wastewater discharge was observed at BP-5 during the time of monitoring. Treated wastewater from Waste Acid Neutralization Plant is discharged directly at BP-5 outfall through a pipe.
3. Samples were collected at BP 5 & BP 6 outfall for TSS and heavy metals analyses. The result of in-situ analysis at BP 5 for pH is 7.79 with a temperature of 30.9 °C and TSS of 4 mg/L and at BP 6 for pH is 8.02 with temperature of 35.1 °C and TSS of 11 mg/L. Samples for heavy metals were sent to EMB CO Laboratory.
4. BP 8, Port Settling Pond, and MEMS outfall have no wastewater discharges at the time of monitoring.
5. BP 6 online pH meter and flow meter were not functional.
6. Marine Assessment was conducted by the Visayas State University in Baybay City in October 2021.
7. BP 8 Water Recycling to AP Project is ongoing. According to Engr. Constantine V. Domingo, Project Coordinator, BP 8 is a rainwater catchment basin. BP-8 pond capacity can be maximized through volume optimization, recycling towards SFP and GPS for level management.
8. BP 8 First Flush System Project was also ongoing. The project involves holding the contaminated first flush rainwater within BP-8 ponds. While the succeeding clean water will be discharged through an open canal. The provision of the said concrete open canal was constructed already. No discharge was observed from the said concrete canal during the time of monitoring.
9. Davao JLU Septic Tank Cleaning and Planning Services rendered services at PASAR Corp. on March 01, 2022, for siphoning of the 5 -units septic tank located at SFP, Bagging House, Refinery, and Maintenance Building.
10. Oil spillage on the concrete floor of the maintenance area was observed. Drainage canal was noted filled with silt materials and contaminated with oil. Construction of drainage canal for re-routing is on-going at MEMS Area.
11. Septic tanks were utilized as primary treatment facilities for domestic wastewater.
12. Drainage Canal at By products Storage Area was filled with silt materials.
13. No water sampling conducted for the monitoring wells due to unavailability of sampling equipment

3.3.6. Solid Waste Management

Compliant Non-compliant Not applicable

1. MRF will be located at BK 15 once the capping activity is 100% completed.
2. Mixed solid wastes were noted temporarily disposed/stored at the Plant's scrap metal yard area near the Hazardous Waste Bunker Facility.
3. Disposal of general wastes thru Symphonas Enterprises in Cebu City is ongoing.
4. Construction of a Material Recovery Facility at Port Settling Pond was completed in November 2021 for wood wastes, plastic wastes, metal wastes, and free metals (copper concentrate).
5. Used jumbo bags were recycled into usable bags by PASAR's Isabel Sewer Association {PISA} through PASAR Foundation, Inc.

3.3.7 Commitment/s from previous Technical Conference

Compliant Non-compliant Not applicable

I. Date of Technical Conference: August 15, 2017

1. *Commitment: To pay the amount of Fifty Thousand Pesos (P50, 000.00) as penalty for failure to submit to the EMB R08 a Notice of Chemical Release (R.A. 6969).*

Status: No payment has been made. Waiting official reply from EMB CO as to date.

RECOMMENDATIONS

- For confirmatory sampling/ further monitoring
- For issuance of Temporary/Renewal of Permit to Operate (POA) and/or Renewal of Discharge Permit (DP)
- For accreditation of Pollution Control Officer (PCO)/Seminar requirement of Managing Head
- For submission of the **1st Quarter Self-Monitoring Report (SMR)**/ Compliance Monitoring Report (CMR)
- For issuance of Notice of Meeting (NOM)/Technical Conference (TC)
- For issuance of Notice of Violation (NOV)
- For issuance of suspension of ECC/ 5 day CDO
- For endorsement to Pollution Adjudication Board (PAB)

Other recommendations:

Environmental Impact Statement System

1. Provide an update on the status of the proposed amended Environmental Monitoring Plan (Operation Phase), particularly on-air pollution from point sources and ambient air quality monitoring.
2. Implement the approved Environmental Impact and Management/Monitoring Plan for the Iron Concentrate Storage Area Project to ensure protection and mitigate the project's adverse impacts on community health, welfare, and the environment.

Air Quality Management

1. Comply with the requirement (submission of emission test results) for regular permit issuance for the Refinery Plant, 1000 KW Cummins GenSet, and 2060 KW MTU GenSet.
2. Submit Relative Accuracy Test Audits (RATA) Plan for Continuous Emission Monitoring Systems (CEMS) installed at Acid Plant for SO₂, NO₂, and Dust parameters and at Desulfurization Plant for SO₂ parameter to comply with the annual requirement as provided under paragraph 6, section 6 of DAO 2007-22.
3. Submit a test plan for 3rd party source emission testing by an accredited DENR Source Emission Service Provider for the 1st bi-annual testing requirement under MC 2007-003.
4. Submit an explanation letter on the zero CEMS reading for the NO₂ parameter. Pursuant to Paragraph 9, Section 6 of DAO 2007-22, the EMB Director and Regional Director have been notified of a CEMS malfunction that lasted longer than seven (7) consecutive days.
5. Submit CEMS readings from March 16,2022 @ 3:35PM to March 17,2022 @ 11:00AM for SO₂ and Dust parameters at Acid Plant Stack and S02 at Desulfurization Plant.
6. Comply with the online CEMS Data transmission to the EMB CO Data Acquisition and Handling System before the end of May 2022 in compliance with the requirements of Memorandum Circular No. 2021-14. A Notice of Violation shall be issued by this Office for non-compliance to the provision.
7. Implement mitigating measures on the exceedance of CEMS readings during plant shutdown per result of the process evaluation of the root cause analysis on the exceedance of CEMS PM and SO₂ readings.
8. Conduct quarterly Ambient Air Quality Monitoring.

Hazardous Waste Management

1. Proper handling and storage of Neutral cake shall be fully implemented under sec 3.5 of DAO 2013-22.
2. Comply with the requirements relative to TSD Registration application renewal.
3. Submit to EMB Central Office a proposed site for a new bunker facility for site assessment and evaluation.
4. To update PCB Management Plan thru EMB PCB Tracker.

5. Transport of generated hazardous waste (used oil) to any EMB accredited Treatment, Storage & Disposal facility for final treatment and disposal.
6. The management shall update EMB Monitoring Team the list of hazardous waste for monitoring and to improve the SMR preparation of Module 2B.
7. Repair the damage wall at the upper right portion of Bunker 15 immediately.
8. To follow up from EMB CO on the case regarding the Notice of Violation issued on failure to submit to the EMB R08 a Notice of Chemical Release (R.A.6969).

Water Quality Management

1. Pay the wastewater discharge fee at BP 6 for CY 2020 and 2021.
2. To secure a Wastewater Discharge Permit for Settlement Pond located at Iron Concentrate Storage Facility.
3. To submit the result of analysis for pH, heavy metals, TSS, etc., which are applicable for water contained in the Settlement Pond.
4. To secure a separate Wastewater Discharge Permit for Domestic Wastewater.
5. Provide a handrail at the discharge outfall sampling station at BP 5 and provide an online pH meter.
6. The online pH meter and flow meter installed at BP 6 shall be checked and calibrated regularly. Ensure that the equipment is functional. Provide access for better sampling at BP 6.
7. Provide marker/buoy at the SWI sampling station.
8. Submit Drainage Layout for Domestic Wastewater generated from the lavatory and sink.
9. Identify all installed septic tanks and their location. Submit a Plan for regular siphoning to be conducted by an accredited service provider.
10. Provide Wastewater Treatment Facility (STP) for domestic wastewater.
11. Conduct desilting at the drainage/perimeter canal at Maintenance Area and By Product Storage Facility.
12. Conduct quarterly sampling of monitoring wells.
13. BP 8 Wastewater Discharge Permit applied was zero discharge. The provision of an open concrete canal means possible discharge will occur. Ensure that this canal will not be utilized. An approved amendment of BP8 Wastewater Discharge Permit shall be secured from this Office prior to discharging rainwater/processed wastewater. Effluent quality must comply with the DENR effluent standards.

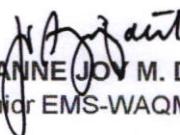
Solid Waste Management

1. Establish Industrial-scale Materials Recovery Facility (MRF).
2. For the strict implementation of proper solid waste management.
3. Continue to implement the Solid Waste Management Plan.
4. Provide a bund wall for the compartment of free metals (copper concentrate) of the Material Recovery Facility at Port Settling Pond.

Submitted by:

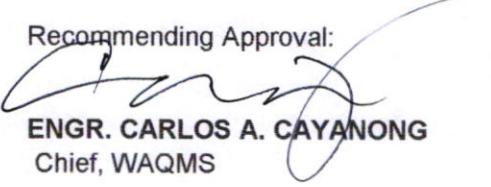

JOSEPH R. AURE
WAQMS -Staff

LIZA A. TAN
Chief, CHWMS

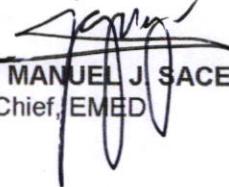

JO ANNE JOY M. DAÑAL
Senior EMS-WAQMS

JANET T. POLEA
Engr. IV-WAQMS

Recommending Approval:


ENGR. CARLOS A. CAYANONG
Chief, WAQMS

Approved by:


FOR. MANUEL J. SACEDA, JR.
OIC-Chief, EMED

Noted by:


REYNALDO B. BARRA, PME
OIC- Regional Director



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Regional Office No. VIII
DENR 8 Compound, Brgy. 2, Jones Extension, Tacloban City



DISPOSITION FORM

Doc. Date : April 12, 2022
IIS No. : R8-2022-010399

Company Name : PASAR CORPORATION, LIDE, ISABEL, LEYTE



Subject / Title: Integrated Compliance Inspection Report CY 2022

TO: All Officials/Personnel Concerned:

Please accomplish and route this properly with the corresponding attached communication/documents. The Official or employee in-charge to whom this document is routed shall act promptly and expeditiously without discrimination as prescribed in the SECSIME or within fifteen (15) working days from receipt thereof, failure to do so is punishable by LAW under RA 6713 and negligence to Memorandum Circular No. 44 issued by the Office of the President of the Philippines "Directing all Government Agencies and Instrumentalities, including government-owned or controlled corporations to respond to all public requests and concerns within 15 days (15 from the receipt thereof)

For strict compliance.

Use code for comment/instruction and desired action:

- A - For information / guidance / reference
E - Pls. appropriate action
I - For initial/signature

- B - For comments / recommendations
F - Pls. immediate investigation
J - For study/evaluation

- C - Pls. take up with me
G - Pls. Attach supporting papers
K - Pls. release/file

D - Pls. draft answer memo
H - Pls. for approval
L - Update stat of case

Important Reminder!

Do not tamper. Continue on separate sheet if necessary. Attach this always with the document to be routed as this shall form an integral part of the document process.