

MMT COMPLAINT MONITORING AND VALIDATION REPORT (CMVR) FORM FOR MINING INDUSTRIES

GRAYMONT (PHILIPPINES) INC. (FORMERLY UNICHAMP MINERAL PHILIPPINES, INC.)
Rio Tuba Export Processing Zone, Brgy. Rio Tuba, Bataraza, Palawan

DATE OF COMPLIANCE MONITORING AND VALIDATION: July 19-24, 2021

MONITORING PERIOD COVERED: January to June 2021 **Quarter/Semester Year:** 1st Semester 2021

I. BASIC INFORMATION:

Graymont (Philippines) Inc.

ECC Control No./Reference Code No.	:	ECC No. 1205- 0009
Date ECC Issued	:	July 19, 2012
Project Current Name	:	Graymont (Philippines) Inc.
Project Name in the ECC	:	Lime Milk Processing Plant Project
Project Status	:	Operational
Geographical Coordinates of the Project	:	X: 8°33'33.562"/8°33'42.702" north Y: 117°25'21.688" / 117°25'34.157" east
Proponent Name	:	Mr. Rommel A. Ibuna
Proponent Contact Person/Position	:	President
Proponent Mailing Address	:	Graymont (Philippines) Inc. (formerly UNICHAMP MINERAL PHILIPPINES, INC.) Unit 3004, 30th Floor, NAC Tower Building, 32nd Street, Bonifacio Global City, Taguig City
Proponent Telephone No./Fax No.	:	+632 552 2651
Proponent Email Address	:	enquiry@graymont.com.ph
MMT Contact Person/Position	:	Joel V. Balquiedra/Supervising Science Research Specialist
MMT Mailing Address	:	Mines and Geosciences Bureau, MIMAROPA Region
MMT Telephone No./Fax No.	:	+639088940858
MMT Email Address	:	Joel.balquiedra@mgb.gov.ph

II. EXECUTIVE SUMMARY

REQUIREMENT		COMPLIED?		Remarks/ECC or EPEP Condition #
		Yes	No	
Compliance with ECC Conditions/ Commitments	Validity	✓		ECC No. 1205- 0009 issued on July 19, 2012
	Project coverage/limits/Components	✓		<p>Land Area : 8.06 hectares Annual Production: 134,000 – 147,000 Calcium Oxide (CaO) equivalent to 167,000-187,000 MT of hydrated lime.</p> <p>Components: Equipment's</p> <ul style="list-style-type: none"> - Two (2) Unit of Vertical double Shaft Kilns - Two(2) sets of Cyclone and Dust Collector (Filter house) - Four (4) Unit of Storage Silo - Two (2) units of Lime milk Plant equipped with individual silo - Two (2) lines of Limestone

REQUIREMENT		COMPLIED?		Remarks/ECC or EPEP
				feeding System w/individual stockpile and sprinkler - (1) one unit of Pet Coke Grinding machine Hydrated Lime plant - -Water sedimentation pit - -Lime milk Pipeline and backup pipeline to CBNC receiving tank - (3) three sets Conveyor
	EMP and updates as deemed necessary	✓		Certificate of Approval for the 2021 Annual Environmental Protection and Enhancement Program (AEPEP) issued by the MGB IV-B on January 29, 2021
	Conduct of compliance and Impact Self-Monitoring	✓		Results of the baseline study was reflected in the Environmental Impact Statement of GRAYMONT (PHILIPPINES) INC., formerly Unichamp Mineral Philippines, Inc.. Quarterly validation and sampling is conducted by the MMT to monitor the same. The latest third-party quarterly sampling and inspection/validation activities were conducted by Multi-partite monitoring team composed of representatives from the Company, MGB Region IV-B, EMB Region IV-B, NGO, LGU, PO etc. on March 1-8, 2021.
	Regular reporting of Self-Monitoring Results by the Project Proponent	✓		The 1 st Quarter and 2 nd Quarter Self-Monitoring Report were submitted to EMB MIMAROPA Region on 15 April 2021 and 15 July 2021, respectively.
	Other sectoral requirements mandated by other agencies to be complied with	✓		<ul style="list-style-type: none"> • Business Permit- March 26, 2015 • Permit to Operate – 2015-POA-D-0453-695 Date Issued: Sept.28,2015 • Permit to Operate-Petrol Station 2017-POA-D-0453-894 Date Issued: August 22,2017 • Discharge Permit No.2017-DP-PAL-02-224 With online application to DENR-EMB (Control # 31847) • Hazardous Waste Generator Permit: Generator ID :GR-4B-53-00025 • Mineral Processing Permit application MPP-NO-15-2014 –IVB (1st Renewal) Date Issued: November 27, 2020 • Environmental Protection and Enhancement Program COA No. 126-2018-05 Date issued: January 10, 2018 • Strategic Environmental Plan (SEP) Clearance No. LPP-012712-005 (approved last January 27, 2012)
Compliance with EPEP Commitments	Implementation of Environmental Impact Control Strategies	✓		Certificate of Approval for the 2021 Annual Environmental Protection and Enhancement Program (AEPEP) issued by the MGB IV-B on January 29, 2021.

REQUIREMENT		COMPLIED?		Remarks/ECC or EPEP
	Safety	✓		Safety and Health Program Commitments are generally complied with.
	Rehabilitation	✓		The Company recently completed the rehabilitation of 30 hectares mangrove rehabilitation project. The rehabilitation activity was completed on the first quarter of 2020. Maintenance, patrolling and monitoring works are continuously implemented to date to ensure high survival rate of the project as recommended by the Department of Environment and Natural Resources (DENR).
Compliance with SDMP Commitments		✓		The Five Year Social Development and Management Program (SDMP) covering the period 2020-2024 was approved by the MGB dated February 4, 2020. SDMP 2021 was approved dated January 29, 2021 with CoA ASDMP # 2021-06-MIMAROPA
Complaints Management	Complaint receiving set-up	✓		The Company is religiously implementing environmental, safety and health, and community related programs to prevent any complaints from the employees and nearby communities. Nevertheless, the Company implement appropriate actions and solution when there are potential complaints. For 1 st Semester 2021, no complaints were received.
	Case investigation	✓		
	Implementation of Control Measures	✓		
	Communication with the complainant/public	✓		
	Compliant documentation	✓		
Accountability - qualified personnel are charged with the routine monitoring of the project activities in terms of education, training, knowledge and experience of the environmental team		✓		The Health, Safety and Environment (HSE) Department is composed of technically competent personnel.
Others, please specify		-	-	None

III. PROCESS DOCUMENTATION OF ACTIVITIES UNDERTAKEN

Activities	Date Conducted	MMT Members Involved	Methodology/Other Remarks
Document Review of:			
- Compliance with ECC Conditions/Commitments	19-24 July 2021	All MMT members. Please see signatures below.	Covers data review per submitted accomplishment reports, actual field validation, consolidation of data, preparation of compliance reports and discussion of field findings and observations during the exit meeting.
- Compliance with EPEP & SDMP Commitments			
- Compliance with DENR Permits Conditionalities			
- Compliance with SEP Clearance Conditionalities			
Site Validation – Ocular			
Site Validation - Confirmatory Sampling (if conducted)	1-8 March 2021 (1 st quarter 2021 MMT Sampling) Resampling activities for Cr ⁶⁺ was conducted on 15 March 2021	MMT Sampling Team	No sampling activities were conducted for the 2 nd quarter. The 3 rd quarter sampling activities were conducted on 19-24 July 2021.

IV.COMPLIANCE MONITORING RESULTS AND DISCUSSIONS

A. Compliance to Project Location and Coverage Limits (as specified in ECC and/or EPEP)

Parameter	Specification (specify if in ECC or EPEP)	Within Specs?		Remarks-Description of Actual Implementation
		Yes	No	
Project Location (indicate geographic coordinates)	Rio Tuba Export Processing Zone X: 8°33'33.562"/8°33'42.702" north Y:117°25'21.688" / 117°25'34.157" east	✓		Based on the Environmental Impact Statement System (EIS) study
Project Area (ha)	8.06 hectares	✓		The project is operating within 8.06 hectares leased area.
Capital Costs	Approximately USD 16.15 Million (PhP 694.45 Million at PhP 43/US\$1).	✓		The capital cost estimate for the development of the proposed plant.
Type of Minerals	Limestone	✓		Milk of Lime
Mining method(s)	Mineral Processing Plant	✓		Lime milk processing method
Production	Annual Production capacity does not exceed 134,000-147,000 MT of Calcium Oxide (CaO) and 167,000- 187,000 MT of Calcium Hydrated lime	✓		January – June 2021: Production: 62,797.76 Calcium Hydroxide 54,570.43 Calcium Oxide
Mill/Processing Plant	Lime Milk Processing Plant	✓		
Mine Life	The project is solely mineral processing and that there will be no mining to be conducted, progressive rehabilitation will not be applicable.	✓		N/A
Mineral Reserves/Resources	RTNMC Gotok Quarry Site with 213-2005-IVB (MPSA of RTNMC) Due to limited availability of raw materials (limestone) from Gotok, Graymont is outsourcing raw materials (limestone) from Bohol.	✓		Limestone supply agreement with Graymont and RTNMC
Access/Transportation	Road and Air Access Transportation	✓		Approximately 236 km from Puerto Princesa City and about five (5) to six (6) hours by land. The Graymont plant site is approximately 9.5 km from the limestone quarry site in Gotok. There is also an existing airstrip located in Barangay Rio Tuba. This is primarily for the use of RTNMC. The runway is 1,700 m long by 30 m beside the Macadam road.
Power Supply	The entire Graymont plant is rated at an estimated 2,750 KWh and is expected to consume 14.1 million KWh per year.	✓		Graymont sources its power requirements directly from CBNC's onsite power plant.
Mining Equipment	• Vertical double shaft kilns	✓		

	(quicklime/calcinations plants) 2 x 200 MT/day; • Lime milk plants 2 x 280 MT/day; • Limestone feeding system (tunnel type) 2 lines; • Hydrated lime plant (5MT per hour); • Warehouse and grinding/milling machines for fuel (coal or pet coke) preparation (10 MT per hour); • Water Sedimentation pit; and • Lime Milk Pipeline and backup pipeline to the CBNC Receiving Tank.			
Workforce	As of June 2021, Graymont Philippines, Inc. has 45 employees.	✓		51.11% (24) of Graymont employees are from Barangay Rio Tuba, Bataraza; 8.89 % (4) from other Barangays within Bataraza; 20.00% (9) from other Municipalities within Palawan while the remaining 20.00% (9) are from other places outside of Palawan.
Development/Utilization Schedule		✓		
Other Components				

B. Review & Validation of Proponent's Self-Monitoring Reports

B1. COMPLIANCE TO ECC CONDITIONS

ECC CONDITIONS	COMPLIED?		PROOF OF COMPLIANCE/Remarks
	Yes	No	
I. CONDITIONS ENVIRONMENTAL MANAGEMENT All commitments, mitigating measures and monitoring requirements, contained in the Environmental Impact Statement (EIS) for the proposed Lime Milk Plant Project, particularly in the Environmental Management and Monitoring Plan (EM MoP), including the modifications and additional information as approved by the EMB, shall be instituted to minimize any adverse impact of the project to the environment throughout its implementation, including the following: 1. Conduct an effective Information, Education and Communication (IEC) Program to Inform and educate all stakeholders, especially its contractors, workers, and local residents	✓		Certificate of Approval for the 2021 Annual Environmental Protection and Enhancement Program (AEPEP) issued by the MGB IV-B on January 29, 2021. All activities in the submitted AEPEP were generally implemented. Part of the approved 2021 programs is IEC Plan. For this year, various IEC activities were conducted within plant site especially COVID and Safety and Health related.

about the mitigating measures embodied in its EIS, the conditions stipulated in this Certificate and the environmental and human safety features of the project for greater awareness, understanding and sustained acceptance of the project;			<ul style="list-style-type: none"> January 29, 2021-Preparation for Covid-19 vaccination, Graymont nurse conducted awareness on efficiency of vaccines as fight against viruses/illnesses February 27, 2021: Ms. Miah Flores conducted IEC regarding COVID-19 updates and reiterated safety and health protocols Conducted IEC regarding company operations. Participated by scholars and their parents/guardians and Barangay council of Brgy. Rio Tuba, Bataraza, Palawan last February 5, 2021 May 10, 2021 – Conduct Covid-19 Information Education Campaign (IEC) through video presentation to all employees and contractors. <p>A social media page was created to show all the activities implemented of the company.</p>
2. Implement a Comprehensive Social Development Program (SDP) and submit a report to the EMB Central Office and EMB-IVB on a semi-annual basis;	✓		Graymont implements its approved SDMP 2021. To date, P1, 203,013.00 or 23% was already utilized from the carry overs and approved SDMP 2021.
3. Establish appropriate measures and buffer zones along the entire periphery of the project site with appropriate species/vegetation cover to enhance the condition of the ecosystem and to serve as noise, vibration and dust buffers;	✓		<p>Buffer Zones along the entire periphery of the project site is fully planted with appropriate species/vegetation cover to enhance the condition of the ecosystem.</p> <p>Continuous protection and maintenance are fully implemented.</p>
4. Conduct validation of air dispersion modeling within one year from the start of project operation. The proponent may operate to design and implement its own air quality monitoring program in a manner that can be used for validating said models to be used in determining accuracy of impact areas and to ensure that actual levels of pollutants are within the DENR standards; diameter	✓		Air Dispersion Modeling Report for the operation of the two (2) units Lime Kiln of Graymont was submitted to EMB MIMAROPA on October 5, 2016.
5. Establishment of a reforestation and carbon sink program using endemic/indigenous species to mitigate greenhouse gas (GHG) emissions of the project in line with the DENR thrust for GHG emissions reduction programs. The program shall be submitted to EMB Central Office six(6) months prior to the project operation;	✓		<p>The plant perimeter and other areas around, in between, and/or adjacent to the plant structures which may not be used as access ways are planted with suitable plants. Buffer areas should also be established and planted with soil covering plants that can be associated as buffer trees at the perimeter boundary.</p> <p>Graymont (Philippines) Inc. was completed the rehabilitation of 30 hectares mangrove rehabilitation project. The Company entered a</p>

		<p>Memorandum of Agreement (MOA) with the Rio Tuba Mangrove Ecosystem Developers, Inc. and Community Environment and Natural Resources of Brooke's Point Palawan for the rehabilitation of 30 hectares mangrove denuded areas in Barangay Sarong, Bataraza, Palawan on October 24, 2018. The rehabilitation activity was completed on the first quarter of 2020. Maintenance, patrolling and monitoring works are continuously implemented to date to ensure high survival rate of the project as recommended by the Department of Environment and Natural Resources (DENR).</p> <p>This project is in support to the National Greening Program (NGP) initiative by the Philippine Government particularly by the DENR Office in restoring mangrove denuded areas in the province of Palawan affected by the illegal cutting activities before and also to contribute for the carbon sequestration program.</p> <p>Mangrove site is now under maintenance and protection.</p>
GENERAL CONDITIONS		
6. The plant operations shall conform with the provisions of RA 6969 (Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990), RA 8749 (Philippine Clean Air Act), RA 9003 (Ecological Solid Waste Management Act), and RA 9275 (Philippine Clean Water Act) and other relevant policies, rules and regulations;	✓	<p>1. RA 6969 Toxic Substances and Hazardous and Nuclear Waste Control Act) Hazardous Waste Generators ID OL-GR-R4B-53-001551</p> <p>1. A. Chemical and intermediate oils and waste drums and busted lamps are generated. A hazardous waste storage area is provided with secondary containment and a system for labeling and hazard warning signs on wastes. Management of the hazardous wastes will be contracted out to a DENR-recognized Hazardous Waste Treater/hauler which is the Genetron International Marketing for PEZA registered Hazardous Hauler.</p> <p>2. RA 8749 (Philippine Clean Air Act) PTO Permit No.: PTO-OL-R4B-2020-01464-R</p> <p>2. A. Graymont has an air pollution control system (APSF) for both the calcination and kiln processes consisting of a double filtering system. The system includes a cyclone and dust collector.</p> <p>2. B. Permit to Operate issued last October 07, 2020.</p> <p>2. C. For dust control Mitigation measures include maintenance of haul roads, regular watering of unpaved areas and haul roads, use of tarpaulins to cover trucks, regulating vehicle speeds, and quick restoration of disturbed land to minimize adverse impacts on the surrounding vicinities.</p>

			<p>3. RA 9003 (Ecological Solid Waste Management Act)</p> <p>3. A. Graymont implemented a solid waste management program as required by DAO 2001-34, Implementing Rules and Regulations of the Philippine Ecological Solid Waste Management Act of 2000. Collection points of solid wastes were established within the project site and proper sorting and segregation of wastes was implemented. Other biodegradable wastes are disposed in proper containers.</p> <p>4. RA 9275 Philippine Clean Water Act) Permit No.: DP-R4B-21-01891</p> <p>4. A. A. Discharge Permit was issued last March 26, 2021.</p> <p>Graymont is a closed loop system (no discharge). Process wastewater is directed to the OSD (On Site Detention) Tanks and recycled to be used in the process.</p>
7. The proponent shall set-up the following:			
7.1 A readily available and replenishable Environmental Guarantee Fund (EGF) to cover the following expenses for further environmental assessment, compensation/ identification for whatever damages to life and property that may be caused by the project, rehabilitation and/or restoration of areas affected by the project's related to the prevention of possible negative impacts and as a source of fund for contingency and clean activities;	✓		The company maintain trust fund in DBP. Validation on the said funds was included during the 4th Quarter MMT Validation was conducted last March 1-8, 2021. This activity was attended by MMT composed of representatives from the Company, MGB Region IV-B, EMB Region IV-B, NGO, LGU, PO etc.
7.2 A Multipartite Monitoring Team (MMT) composed of representative(s) from the proponent, EMB Region-IVB, a local environmental Non-Government Organization (NGO), and the LGU's shall be organized. The MMT should primarily oversee the compliance of the proponents with the Environmental Management and Monitoring Plan (EMMoP) and the ECC conditions.	✓		4th Quarter 2020 Validation and 1st Quarter 2021 Air and Water Sampling for Graymont (Philippines) Inc. were conducted on March 1-8, 2021. This activity was attended by MMT composed of representatives from the Company, MGB Region IV-B, EMB Region IV-B, NGO, LGU, PO etc.
8. Creation of an Environmental Unit (EU) within (60) days from issuance of this certificate that shall competently handle the environmental related aspects of the project. In addition to the monitoring requirements as specified in the environmental Management and monitoring plan (EMMoP), EU shall have the following responsibilities: a. Monitor actual project impact vis-à-vis the predicted impacts and management measures in the EIS;	✓		The Company hired and assigned a Pollution Control Officer (PCO) at site for the proper monitoring of project impact and the implementation of appropriate mitigating/control measures stipulated in EIS. Furthermore, the PCO ensure that data gathered during monitoring activities are properly documented, assessed, evaluated, and regularly reported in accordance with the standard format of the concerned government agencies.

<p>b. Accordingly recommend revision to the EMMop, wherever necessary subject to the approval of EMB Central office. Revision should also consider the result of the validation of air dispersion modeling as required in item 4 (Annex A) of this certificate;</p> <p>c. Ensure that data gathered during monitoring activities are properly documented assessed, evaluated and reported in accordance with the standards formats, and;</p> <p>d. Ensure that monitoring and submission of reports to EMB (Central Office and Region-IVB) are carried out as required;</p>			
9. The proponent shall ensure that its contractor and sub-contractors properly comply with the relevant conditions of the certificates;	✓		<p>Regular activities for the contractors:</p> <ol style="list-style-type: none"> 1. Employee and Contractor Annual reorientation/refresher and review required applicable PPEs in the working environment. 2. Monthly Safety Meeting 3. IEC to the Contractors 4. Safety induction and orientation training (Newly hired, Employee, Visitor, and Contractor). <p>Validated last March 1-8, 2021.</p>
II. RESTRICTIONS			
10. No activities shall be undertaken other than what were stipulated in the final EIS. Any expansion of the project beyond the project description or any change in the activity or transfer of location shall be subject to new Environmental Impact Assessment (EIA) and;	✓		No increase in land area or any changes in the activity or transfer of location.
11. In case of transfer of ownership of this project, these same conditions and restrictions shall apply and transfer shall be required to notify the EMB Regional Office within fifteen (15) days from the transfer of ownership.	✓		No transfer of ownership.
III. OTHER REGULATORY REQUIREMENTS/CONDITIONS			
1. Compliance with the Sanitation Code of the Philippines	✓		Caterer for Graymont canteen secured all necessary documents prior to operation including health certificate and sanitation permit to operate. Latest Audit Monitoring and Evaluation of Industrial Establishment as Mandated by PD 856 / Sanitation Code of the Philippines (Implementing Rules and Regulation Chapter VII- Industrial Hygiene) was conducted last October 14-18, 2019.
2. Compliance with the Labor Code of the Philippines	✓		Complied.
3. Ensure conformance with the Ecological Solid Waste Management Act	✓		Complied.
4. Ensure compliance with the Indigenous	✓		Complied.

People's Rights Act (IPRA) for the protection of indigenous people			
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B.2. Compliance to Impact Management Commitments in EIA Report & EPEP

(Directions: The MMT shall check compliance of the Proponent to the commitments made in the EMP.)

Project Impacts	Mitigating Measures/Control Strategies		Effective		Recommendation
	Planned	Actual Observation	Yes	No	
Mining Operation	1. LAND RESOURCES				
	1.1. Establishment of Bamboo Plantation	No bamboo plantation was established.		X	Accelerate the establishment of a bamboo plantation to catch up with the plan for CY 2021.
	To establish 20 hectares of bamboo plantation with a total annual budget of PHP 7,000,000.00.				
	1.2 Tree Planting/Maintenance	GPI was able to plant/maintain 2 hectares of tree plantation, which is equivalent to 100% of its target. GPI already spent PHP 18,200.00.	✓		Regular maintenance and monitoring of planted seedlings to ensure their growth and survival
	To plant/maintain 2 hectares tree plantation with a total annual budget of PHP 15,000.00.				
	1.3 Imposition of Environmental Control Measures (Dump truck covering, cleaning, etc) during Limestone and Petcoke Hauling Activities	GPI was able to impose environmental control measures for 8 hauling of limestone and petcoke materials which is equivalent to 53.33% of its target. GPI spent PHP 2,670.00.	✓		Continue these environmental measures.
	To conduct impositions of environmental control measures for 15 hauling activities for a total annual budget of PHP 5,000.00				
	2. WATER RESOURCE AND QUALITY				
	2.1 Maintenance of Drainage System and Others (e.g. general housekeeping of Petcoke, KILN, and MOL Plant, etc.)	GPI was able to maintain a 4 drainage system and other facilities and reportedly spent PHP 43,725.00	✓		Continue the clean-up of environmental mitigation measures facilities.
	To maintain 4 drainage systems and other facilities for a total annual budget of PHP 50,000.00				
	2.2 Desilting and Maintenance of Wash pond, Silt Ponds, OSD, etc.	GPI was able to desilt and maintain 4 wash ponds, silt ponds, and OSD with a reported cost of PHP 54,600.00.	✓		Conduct the desilting and maintenance of wash ponds, silt ponds, OSD, etc.
	To desilt and maintain 4 silt ponds, OSD, etc. for a total annual budget of PHP 70,000.00.				
	2.3 Waste Management (Solid and Hazardous Wastes)	GPI was able to maintain 2 wastes management facilities with a reported cost of PHP 5,700.00.	✓		Continue to practice proper wastes management.
	To maintain two (2) waste facilities with an annual budget of PHP 10,500.00				
	3. NOISE AND VIBRATION				

3.1 Installation and Maintenance of Noise Control Measures in RMH Discharge Chute and Others	2 noise level monitoring were conducted for the 2 quarters with a reported cost of PHP 2,492.50.	✓		Continue to conduct noise level monitoring
	To install and maintain 2 noise control monitoring stations with an annual budget of PHP 4,850.00.			
4. AIR QUALITY				
4.1 Maintenance of Air Pollution Control Equipment/Devices (e.g. Replacement of filter bags, repair of gas trap, etc.)	GPI was able to maintain 3 air pollution control equipment/devices with a reported cost of PHP 489,093.00.	✓		Conduct the remaining scheduled air quality monitoring.
	To maintain 3 air pollution control equipment/devices for an annual budget of PHP993,000.00			
4.2 Road Watering and Street Sweeping	GPI was able to conduct 180 road watering activities with a reported cost of PHP 6,691.16.	✓		Continue the road watering and sweeping activities.
	To conduct 360 road watering activities for an annual budget of PHP 21,487.00.			
4.3 In-house Air Quality Monitoring using Gastec Detector Tube	GPI was able to conduct 6 air sampling activities with a reported cost of PHP 13,384.08.	✓		Continue the in-house air quality monitoring.
	To conduct 12 air sampling activities with an annual budget of PHP 18,564.00.			
4.4 Third-Party Air Quality Monitoring	No third-party sampling was conducted, this activity is scheduled for the 4th Quarter.			Adhere to the planned schedule of air quality monitoring.
	To conduct 1 third-party air quality monitoring with an annual budget of PHP 156,000.00.			
4.5 Road Concreting	GPI only concreted 1,337.0 square meters of the road with a reported cost of PHP6,095,830.16		X	Accelerate the concreting of the road to catch up with the plan for CY 2021.
	To concrete 18,666.5 square meters of the road with an annual budget of PHP 16,000,000.00.			
5. CONSERVATION VALUES				
5.1 Rehabilitated Mangrove Area Protection, Maintenance	GPI was able to protect and maintain 15 hectares of mangrove area with a reported cost of PHP 180,000.00.	✓		Continue to protect and maintain mangrove areas.
	To protect and maintain 30 hectares of mangrove area with an annual budget of PHP 360,000.00.			
6. ENVIRONMENTAL RESEARCH				
6.1 Petcoke Ash Sampling for other beneficial uses	GPI started the conduct of research for its technical paper: "Petcoke Ash Sampling for other beneficial uses" which already costs PHP 5,520.00 for quarters under review.	✓		Continue to conduct environmental research and utilize the outcome of the results.
	To produce 1 technical paper with an annual budget of PHP11,000.00			
7. OTHERS (E.G. TRAINING/WORKSHOPS/ CONFERENCES/LINKAGES/ MMT/MRFC ETC.)				
7.1 Multi-Partite Monitoring Team (MMT)	Only 1 MMT Monitoring was conducted due to the restriction brought by the COVID-19 pandemic. However, PHP 100,800.00 was already spent.		X	Conduct the remaining MMT activities for CY 2021
	To conduct 4 MMT monitoring with an annual budget of PHP 24,000.00			

	7.2 Mine Rehabilitation Fund Committee (MRFC)	Only 1 MRFC Meeting was conducted as the 1 st Quarter MMT monitoring was delayed and conducted at the same time with 2nd Quarter MMT with a reported cost of PHP 50,700.00.		X	Conduct the remaining MRFC meetings
	To conduct 4 MRFC meetings with an annual budget of PHP 200,000.00				
	7.3 MPP Validation	GPI was able to conduct 1 MPP validation with a reported cost of PHP 16,000.00	✓		Continue to conduct MPP validation
	To conduct 1 MPP validation with an annual budget of PHP 16,000.00				
	7.4 SHES	GPI was able to conduct 1 SHES validation with a reported cost of PHP15,115.18	✓		Continue to conduct SHES validation
	To conduct 1 SHES Validation with an annual budget of PHP 16,000.00				
	7.5 Trainings/Seminars/ Workshops	1 training was conducted by GPI.	✓		Conduct the training for the year
	To conduct 1 training with an annual budget of PHP 10,000.00				
	7.6 ISO 14001:2015 Certification (Environmental Management System)	GPI is ISO 14001:2015 Certified	✓		Maintain the ISO Certification
	To maintain 1 certificate with an annual budget of PHP 20,000.00				
8. OTHER FINDINGS, OBSERVATION AND RECOMMENDATIONS					
<ul style="list-style-type: none">Accumulation of silt was noted on the concrete road near the limestone feed stockpile.					

C. REHABILITATION ACTIVITIES

MINING FOREST PROGRAM Validation Report (From July 2020 to June 2021)

I. **NAME OF COMPANY** : GRAYMONT (PHILIPPINES) INC.
Location : Rio Tuba Export Processing Zone, Brgy. Rio Tuba, Bataraza, Palawan

Tenement/MPP No. : MPP No. 15-2014-IVB (1st Renewal)
Year Mining Forest was Initiated : Plant Site : 2015
Mangrove : October 24, 2018

II. ACCOMPLISHMENTS:

A. **DEVELOPMENT PLANS:** /X/ Long-Range Plan /X/ Annual Plan

- Environmental Protection and Enhancement Program (EPEP)
- Annual EPEP
- 2019-2020 Reforestation Plan

B. NURSERY OPERATIONS:

// Own Nursery /X/ Joint Venture /X/ Acquired from Other Sources

Name of Nursery	Area (m ² /ha)	Capacity (No. of Seedlings Produced)*
Rio Tuba Mangrove Ecosystem Developers in Brgy. Sarong, Bataraza, Palawan	229.56 m ²	25,000

Note: For joint venture, the company has partnered with Rio Tuba Mangrove Ecosystem Developers for the production of mangrove propagules;

For acquired from other sources, 200 pcs. Seedlings are planted within the plant site.

Seedling Inventory for the Year

No. of Seedlings				No. of Seedlings Out-Planted		No. of seedlings donated	Balance in Stocks
				Planted for the Year	Replanted for the Year		
Previous Stocks	Produced	Acquired	Total				
0	66,500	200	66,700	3,000	19,000	0	0

*replanting was conducted within the previous plantation

note: Enrichment planting

C. EXTENT OF PLANTED AREAS(ha)**Total Area Planted to Date**

Plant Site	:	3.0
Mangrove Site	:	30.0
Sub-total	:	33.0
Previous Plantations	:	9.30 ha
New Plantations or Expansion	:	20.7 ha

D. DISTURBED AREAS (ha)**1. Areas directly affected by the operations**

(Itemize all areas in a separate sheet.)

Disturbed Area	Area (has.)
Plant Nursery	0.2223
Laboratory Facility	0.02745
Office Facilities	0.0633
Plant Facilities	3.9252
Road Networks	2.509
Stockyard Facilities	0.8536
Sedimentation Tank	0.016
Canteen Building	0.056
On-site Detention (OSD) Tanks	0.035
OSD Tanks Extension	0.021
MOL semi-finished muster point	0.0512
MOL semi-finished bund wall	0.0306

Diesel Storage Area	0.0108
Limestone Washing Tank	0.037
Guardhouse and Weighbridge	0.024
Fire Pump House	0.0025
Others	0.175
TOTAL	8.06

2. Environmental Incidence Resulting to Damages

	Yes	Area Affected (ha)	No
a. Tailings dam failure			X
b. Waste dump failure			X
c. Shrinkage/subsidence			X
d. Induced slides			X
e. Others (specify)			X
T o t a l			

(Note: Exclude areas that were previously rehabilitated.)

E. MAINTENANCE AND PROTECTION

Plantation Activities

1st Semester 2021								
Aspect	(<JJ17)	Recent				Latest	Sub-total	Grand Total
		JD17-JJ18	JD18-JJ19	JD19- JJ20	Sub-Total	JD20-JJ2021	(Recent + Latest)	
No. of Seedlings Planted	2,195	606	25,000	49,700	75,306	0	75,306	77,501
No. of Seedlings Replanted	0	0	0	17,000	17,000	23000	40,000	40,000
No. of Surviving Plants	2,129	576	22,500	46,690	69,766		69,766	71,895
Survival	96.99	95.05	90.00	97	92.16	90.00	91.73	91.82

*Latest survival rate is for confirmation to CENRO upon validation.

Note: For old plantation, consider four (4)-year old growth and above.

For recent plantation, consider one (1)-year to three (3)-year old growth.

For latest plantation, consider those for the periods July-Dec. of the previous year and/or Jan.-June of the current year.

2. No. of Persons Involved

- a. No. of company foresters (Partners from DENR – CENRO) : 2
- b. No. of deputized forest guards (or DENROs) : 1 company-designated
- c. No. of reforestation personnel : 3
- d. No. of local residents involved (community involvement) : 15

3. Vigorousness : / / Highly Vigorous /X/ Vigorous

4. Maintenance and Protection

	Yes	No	MOL Plant Coverage (ha)	Yes	No	Mangrove Coverage (ha)
Control of forest fires by establishment and construction of fireline/ firebreaks/fire towers	X		0.03		X	
Brushing/weeding/mulching/pruning	X		0.30		X	
Fertilizer/lime/pesticide/chemical application	X		0.26		X	
Water spraying	X		0.30		X	
Control of forest pests and diseases	X		3.0		X	
Patrol work	X		3.0	X		30
Forest law enforcement	X		3.0	X		30
Others (please specify)						

A. OTHER ENVIRONMENTAL FACTORS

1. Species Diversity

Tree Species	Spacing (m x m)
Bamboo (<i>Bambusa sp.</i>)	3x3
Narra (<i>Pterocarpus indicus</i>)	3x3
Ipil (<i>Instia bijuga</i>)	3x3
Mangium (<i>Acacia mangium</i>)	3x3
Palawan Cherry (<i>Cassia sp.</i>)	5x5
Tonkat ali (<i>Eurycoma longifolia</i>)	3x3
Palomaria (<i>Calophyllum sp.</i>)	3x3
Grasses	1ftx1ft
Creeping vine	1ftx1ft
Udling (<i>Eugenia sp.</i>)	3x3
Others	3x3, 2x2

Note: Other species are subject for species identification.

Species Diversity in adopted NGP mangrove area in Brgy. Sarong

Tree Species	Spacing (m x m)
Pututan (<i>Avicenia sp.</i>)	2x2
Tangal (<i>Ceriops tagal</i>)	2x2
Bakauan lalaki (<i>Rhizophora apiculata</i>)	2x2

2. Research/Studies on reforestation conducted:

Is there any research/study on reforestation conducted?

/___/ /X/ None

3. IEC on reforestation:

Is there any IEC activities (in the form of publication, public dissemination, lectures, etc.) initiated for the Community?

A flyer was distributed highlighting the programs implemented by GPI including the adopted NGP Mangrove area in Brgy. Sarong, Bataraza, Palawan

(Attach photocopy/ies of publication and other IEC papers.)

4. Services to the Community

Is there any reforestation assistance extended by the Company to the Community during the period under review?

If yes, enumerate and specify the kind and value of assistance extended.

Even the Company only leasing 8.06 hectares from RTNMC, it managed to fully rehabilitate the 30-hectare mangrove denuded area in Brgy. Sarong, Bataraza, Palawan. As part of Company's goal to generate economically viable livelihood projects, a local people's organization was tapped to implement the project. Another project of the Company this 2021 is the Plantation of 20 hectares mangrove.

If assistance was by seedling donation, specify how many seedlings were donated.

5. Other Conservation Measures

- a. Is there any reforestation assistance extended by the Company to the Community during this period under review?

If yes, enumerate and specify the kind and value of assistance extended.

If assistance was by seedling donation, specify how many seedlings were donated.

Released of Php180,000.00 funds for the continuous protection and maintenance of 30 hectares mangrove rehabilitation project funded by the Company to Rio Tuba Mangrove Ecosystem Developers.

- b. Landscaping of mine and/or plant site surroundings?

Yes X Area 3.0 has. No

- c. Use of vines and grasses for initial rehabilitation?

Yes X Area 3.0 has. No

Specify type/kind of vines/grasses: carabao grass

- d. Establishment of herbal and ornamental garden:

Yes X Area: Ornamental Garden 326.5 m²

6. Wildlife and Faunal Migration:

Is there an actual sighting of wildlife/fauna in the reforestation area during validation?

- Butterfly
- Monitor Lizard (*Varanus Bitatawa*)

- Birds (*Longchura atricapilla*)
- Snake
- Flying foxes
- Fiddler crabs

D. AIR QUALITY IMPACT ASSESSMENT

Sampling Location 1: Bulanjao Golf-Course

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Limit (DENR Int'l Stds)	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
1. TSP ($\mu\text{G}/\text{Ncm}$)				6.8			300	Passed
Date/time of sampling: March 3, 2021 / 1:55 PM – 2:55 PM								
Weather and wind direction:								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

Sampling Location 2: GSSI Compound

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Limit (DENR Int'l Stds)	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
1. TSP ($\mu\text{G}/\text{Ncm}$)				37.4			300	Passed
Date/time of sampling: March 5, 2021 / 2:53 PM – 3:53 PM								
Weather and wind direction:								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

E. Noxious Gas Quality Impact Assessment

Sampling Location 1: Bulanjao Golf-Course

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Limit (DENR Int'l Stds)	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
NO ₂ $\mu\text{L}/\text{Nm}^3$				<0.03			260	Passed
SO ₂ $\mu\text{g}/\text{Nm}^3$				0.39			340	Passed
Date/time of sampling: March 3, 2021 / 01:59 PM-02:59 PM								
Weather and wind direction:								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: Regular MMT Sampling Activity								

- EQPL-Environmental Quality Performance Level
 - Alert of Red Flag-early warning
 - Action Level-point where management measures must be employed to reverse deterioration to pre-impact or optimum environmental quality

- Limit Level-regulated threshold of pollutant (standard that must not be exceeded)

Overall Air Quality Impact Assessment

All parameters are within the DENR standards.

F. WATER QUALITY IMPACT ASSESSMENT (No sampling Stations / Closed Loop)

Sampling Location 1: _____

Sampling Location 1:

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria (DAO 2016-08) Class C	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
N/A								
Date/time of sampling:								
Weather and wind direction:								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:								

- EQPL-Environmental Quality Performance Level
 - Alert of Red Flag-early warning
 - Action Level-point where management measures must be employed to reverse deterioration to pre-impact or optimum environmental quality
 - Limit Level-regulated threshold of pollutant (standard that must not be exceeded)

Overall Air Quality Impact Assessment

N/A

G. Compliance with good practices in Solid and Hazardous Waste Management (Directions: The MMT shall indicate its observations on how solid waste is handed, stored, disposed.)

Type of Waste	ECC/EPEP Commitments			Adequate?		Remarks
	Handling	Storage	Disposal	Yes	No	
Residual wastes	Color coded garbage bins were installed in different areas around the plant with proper label for solid waste sorting.		Garbage dump to the pit are covered with soil twice a week	✓		- Wastes are collected at site and deliver / disposed at the Categorized Sanitary Landfill.
Biodegradable Solid waste (left-over foods, peeling and other biodegradable materials)	Color coded garbage bins were installed in different areas around the plant with proper label for solid waste sorting.		Biodegradables are collected for composting and used as nutrients for plants at site			
Recyclable		Temporarily stored at the Materials Recovery Facility				

Non-biodegradable Solid Waste	Scrap metal Yard was properly arranged	Material Recovery Facility		✓		Maintain proper housekeeping of Scrap metal yard Continue Segregation at source.
Hazardous waste (Busted Fluorescent lamp, Containers previously containing chemical substance, Used oil, Used oil (Sludge), Pathological or infectious waste, Used Batteries, Oil contaminated materials, Grease Waste)	Contained in steel drums with proper label	Stored in THWSF with secondary containment and a system for labeling and hazard warnings signs on wastes With oil and water separator and fire hydrants in placed.	Hauled and treated by PEZA Accredited Hazardous Wastes treater/ Hauler	✓		Hazardous waste generated as of 1 st Semester 2021: J201 – Containers previously containing chemical substance - 0.0825 ton I101 – Used oil - 698 liters M501 – Pathological or infectious waste - 0.5 kg I104 – Oil contaminated materials - 0.008 ton

H. Compliance with good practices in Chemical Safety Management (for those companies using/producing Chemicals listed in EMB's PCL & CCO List)

Chemicals in PCL and CCO	Adequate?* (Put/If Adequate)				Remarks
	Risk Management	Training	Handling	Emergency Preparedness	
	N/A				

I. Complaints Verifications and Management

Date Filed	Filed Where? (pls. check)				Nature of Complaint	Resolutions Made
	DENR	Company	MMT	Others, Specify		
N/A						

J. Other Remarks/Recommendation/Documentations:

Photos were taken during the conduct of Monitoring on July 19, 2021



Figure 1. Updated Safety Statistic Board in front of the main building.



Figure 2 to 5. Road condition during the conduct of monitoring; already covered with accumulated silt along the path walk near the limestone feed stockpile and with the MMT validation team; condition of Limestone Washing pond and Silt pond during monitoring.



Figure 6 to 7. Condition near at Petcoke ; Ongoing road concreting in observed during the monitoring.



Figure 8 to 9. Planted trees within the vicinity of the company and buffer zone.



Figures 10 to 11. Solid waste trash bins provided at various working areas within the plant site; NO_x & Sox Sampling was conducted at Bulanjao Golf Course on March 3, 2021.