

ENVIRONMENTAL IMPACT STATEMENT of the PROPOSED MABUHAY FILCEMENT GRINDING AND PACKING FACILITY

EXECUTIVE SUMMARY FOR PUBLIC



Submitted To:



Department of Environment and Natural Resources Environmental Management Bureau

Prepared By:



Philippine Center for Environmental Awareness and Sustainability, Inc. *Be Aware. Act. Sustain.*

FEBRUARY 1, 2019



A. PROJECT DESCRIPTION

Name of the Project	Mabuhay Filcement Grinding and Packing Facility			
Project Description & Location	MFI will grind clinker and other Non-metallic material (e.g. Limestone, gypsum, and pozzolanic material) to final product cement, and will be packed into 40 kg bags, one (1) Ton Cement Bags, or directly to Bulk Trucks; Located within a 3.9 hectares land which is identified as Lot 12 of Phase III-B of Calaca Industrial Seaport Zone, Calaca, Batangas.			
Size & Scale of Project	The estimated maximum production capacity of the grinding and packing plant is 8,800 MT per day, about 220,000 bags cement per day (or 3.2 million metric tons per year)			
Project Components				
		Number	Total Area	
Main Project	Truck-scale rooms/ 3Truck-scales	3	240	
Facilities	Clinker Storage	3	3900	
	Clinker Bin Silo/ Fly Ash Silo	1/1	295	
	Cement Mill Workshop with 3 grinding mills & roller press		2,400	
	Material Storage, Mixing Shed & Feeding System	1	4500	
	Cement silo	3	1500	
	Packing House & Loading Area		5210	
	Water Pump Room		50	
	Air Compressor Room		50	
	Cement Mill Power Room		450	
	Packing House Power Room		160	
	Finished Cement Warehouse		765	
	Machine Shop		600	
	Sub-Station / Switch Yard		610	
	Pay-loader Parking / Motor-pool		225	
		Number	Total Area	
Support Facilities	Admin. Building: Office & QA Laboratory	1	810	
	Water Closet/CR		150	
	Service Vehicles /Motorcycles Parking		1125	
	Guard House	2	20	
	Cistern Tank	4	32	
Pollution Control Facilities		Number	Total Area	
Water Treatment Facility		1	75	
	Material Recovery Facility	1		
Total Area of All Facilit	ies		23,167	
Open Spaces			16,473	
TOTAL AREA OF PROJECT SITE			39,640	











B. PROPOSED LOCATION

The project will be located inside the Calaca Industrial Seaport Zone (CISZ) in Barangay, Lumbang Calsada, Municipality of Calaca, Batangas Province.







Criteria and Process in Choosing from the Alternatives:

Project Site	MFI considered the following criteria in its site selection: climatic conditions- not flood prone, labor can be procured easily and economically; area should be accessible to its market to minimize cost of transport and the chances of spoiling the cement during transport; there is available and reliable power supply; raw materials are available near and can be transported to site easily; transport facilities are available for raw materials and finished product. In view thereof, it considered various areas in Luzon, such as Laguna, Batangas and Pampanga. It found the area within the Calaca Industrial Seaport Zone as the best choice. Proponent found the following advantage in selecting CISZ: site is within an established industrial area bordering coastal zone with operating "port"; the site is an idle land area not use for agricultural production and free of settlements/residence. Also, the site is near the
	port and national highway which is very accessible through the well establish road network of CISZ.
Technology Selection	New grinding system will be adopted as an alternative to the existing technology to ensure production processes will be cost-effective and environment-friendly. Hybrid grinding system –combination of roller press and ball mill, will be used to pulverize the raw materials cement components. Hence, the efficient energy usage of roller press for pre- grinding operation and the grinding ability of ball mill are combined for better pulverization with higher capacities.
Operation Processes & Design	Finish grinding is one of highest energy consuming operation in cement manufacturing plant. Nowadays there are different grinding systems have been designed and operated to improve the process in addition to the closed-circuit, two compartment ball mills known for decades. With this interest, Mabuhay Filcement Inc. opted to employ the combined or hybrid grinding system.

C. PROJECT PROPONENT

Project Proponent	Mabuhay FilCement Inc., (MFI)	
Address	Doña Emilia Benedicto Bldg. No. 7 E. Benedicto St. Zapatera, Cebu City, 6000, Cebu, Philippines Tel. No.: (6332) 255-3200 /255-3207 /488-9788 Email : <mfcement@gmail.com></mfcement@gmail.com>	
Contact Person & Proponent authorized Representatives	Enrison T. Benedicto Rose D. Encallado Joselito M. Palacio Tel.No.: (6332) 488-9788 / Mobile No.: (63-917) 417-8403 Email: <jmpalacio@mfcement.com< td=""></jmpalacio@mfcement.com<>	





D. PROJECTED TIME FRAME OF THE PROJECT IMPLEMENTATION

The following is the proposed schedule of activities of this Project from pre-construction to operation:

Project Phase	Proposed Schedule	Duration
Pre-construction	April 2018 - June 2019	15 months
Construction	July 2019 - December 2021	2 years and 6 months
Commissioning	January 2022 - April 2022	4 months
Commercial Operation	May 2021	

E. CONCISE INTEGRATED SUMMARY OF THE MAIN IMPACTS AND RESIDUAL EFFECTS AFTER APPLYING MITIGATION:

Project Phase / Environmental Aspect	Potential Impact	Options for Prevention or Mitigation or Enhancement	Residual Impacts
CONSTRUCTION PHA	SE		
Land			
Generation of debris, solid wastes and scraps due to various construction works	Land pollution	 Good housekeeping; Reduce, re-use, recycle of wastes Reuse and sell of scraps 	 Minimal solid waste
Soil erosion due to cut and fill	 Land degradation at site and nearby areas Increased sediment and deposition in adjacent areas 	 Further minimize cut and fill because land is already developed Protect loose soil from rain 	
Generation of hazardous wastes	Land contamination	 Good housekeeping Proper Containment of oil and used oil Collection and treatment by a DENR accredited TSD 	• minimal
Water			
Release/ discharges of waste water due to construction activities	Pollution of ground water	Use of Portable toiletsGood housekeeping	 Minimal discharge compliant to DENR standards
Use of limited water resource	Water depletion due to groundwater extraction	 Provision of water conservation measures Source water from CISC 	No impact
Air			





Emissions to air due to land clearing and construction activities	Air pollution	 Regular spraying of water where earthwork activities are concentrated Compacting of exposed soil and immediate hauling of spoils Cover on trucks loaded with construction materials Impose speed restrictions for trucks Road water sprinkling Tree nursery and tree planting 	Ambient air quality sompliant to DENR standards
People			
Increase of noise level	Nuisance to nearby communities	Limit activities during day time	 Noise level compliant to OSH standards
Physical Attributes and Nuisance	Increase in traffic congestion	Implement Traffic management plan	
Employment and livelihood generation	Increase in livelihood opportunities and community income	 To enhance, give priority to qualified locals Implement Social Development Program (SDP) and information and Education Campaign (IEC) 	
Operation Phase			
Land			
Solid waste accumulation	Generation of sludge from septage	 Septic tank management by desludging 	
Solid waste accumulation	Land pollution	 Good housekeeping Implement Proper Waste Management Plan Implement reduce, re-use and recycle program. Provision of compost pit for biodegradable waste Set-up a Material Recovery Facility 	 Minimal non- hazardous waste
Hazardous wastes discharge to land	Contamination and improper management of hazardous waste materials	 Proper labeling, segregation and storage Transport, treatment and disposal of DENR accredited third party contractors Provision of hazardous waste storage area with secondary containment Separate area for the plant personnel working station to 	• minimal





		prohibit hazardous waste exposure and health hazard as well.	
Water			
Release/Discharge to Water	Water pollution domestic wastes	 Use of multi-chamber septic tanks Desludging by accredited service provider 	Minimal/ zero discharge
Use of limited water resource	Water depletion due to groundwater extraction	Water conservation measuresSource water from CISC	•
Emissions to Air	Air pollution from fugitive dusts, equipment and vehicles	 Use/installation of dust collector system Closed system for transfer and storage Manual sweeping Proper maintenance of dust collector including replacement of filter bags Road water sprinkling Tree nursery & tree growing 	• Air quality within DENR standards
	Greenhouse gas emission	Implementation of a greenhouse gas emission reduction and management program	
People			
Noise from equipment and vehicles	Increase of ambient noise levels	 Establish and maintain Buffer zone and tree growing Ensure proper maintenance of equipment and vehicles Provision of earplugs to workers Maintain OSH prescribed noise criteria Impose and implement strict policies on hired vehicles 	 Noise level within OSH standards
Health aspects	Increase in health incidence attributable to operation of plant	Ensure all mitigating measures to control air pollution are in place and operational at all times	Zero incident
Employment and income generation for the people	Increase in livelihood opportunities and community income	 To enhance, give priority to qualified locals Implement Social Development Program (SDP) and information and Education Campaign (IEC) 	





Income generation for the Barangay and Calaca Local Government	Increase in local government's income	Pay appropriate fees and taxes on time and	
Physical Attributes and Nuisance	Increase in traffic congestion	Implement Traffic management plan	
Decommissioning Pha	ase		
Discharge to land	Solid waste pollution /contamination brought about by scraps and debris from demolition; Change in land form and use	 Good housekeeping Conduct Environmental site assessment (ESA) prior to abandonment 	 Possible contaminati on will be addressed
Emissions to air	Air pollution due to dust from demolished structure Noise Pollution due to demolition	 Sprinkling of water in affected areas Limit activity during daytime 	Ambient air quality is within DENR standards
Loss of livelihood	Loss of Jobs and community programs	Retrenchment packageLabor support programs	

F. IDENTIFIED STAKEHOLDERS

Stakeholders	Name	
Local Government Unit	Office of the Municipal Mayor	
	Sangguniang Bayan of Calaca, esp councilor for the Committee on Environment	
	Office of the Municipal Planning and Development Office	
	Office of the Municipal Environment and Natural	
	Resources Office	
	Office of the Municipal Engineer	
	Rural Health Unit of Calaca,	
Calaca Industrial Seaport Zone		
Barangay Government Unit of Barangay Lumbang Calzada, Calaca	Barangay Chairperson	
	Sangguniang Barangay	
	Barangay Health Workers	
NGO? People's Organization	Grupo ng mga Kababaihan/Women's Sector	
	Samahan ng mga Kalalakihan (ERPATS),	
	Lumbang Calzada, Calaca	
	Bantay Dagat	
Department of Education	Lumbang Calzada Elementary School	
Calaca Industrial Seaport Zone locators	* KNAUF representative	





G. STATEMENT OF COMMITMENT AND CAPABILITY TO IMPLEMENT NECESSARY MEASURES TO PREVENT NEGATIVE IMPACTS

Mabuhay Filcement Inc. commits to:

• Comply with the conditions that will be stipulated in the ECC and other related environmental laws;

• Foster mutually beneficial partnership and cooperation with the host community;

• Promote sustainable use and responsible development of resources by adopting appropriate technologies;

• Develop livelihood programs and upgrade skills of host community to contribute and enhance the quality of life; and

• Develop training programs for its employees to ensure that they will be continually prepared for the tasks assigned to them.

H. INFORMATION ON WHERE TO GET A COPY OF THE EIS FOR FURTHER INFORMATION

The Project's EIS and Executive Summary for the Public can be downloaded from the website of EMB: <u>www.emb.eia.gov.ph</u>. Copies will also be available from the following offices:

- EMB Calabarzon Address: 6th Floor, DENR by the Bay, 1515 Roxas Boulevard, Ermita, Manila Telephone Number: (02) 536-9784
- 2. Municipal Office of the Environmenta and Natural Resources (MENRO) Municipality of Calaca, Batangas

For more details, please contact the EMB- EIAMD at telephone numbers: 9202240 to 41 and look for the project Case Handler: Carl Louie Santiago.

