

# **Proposed SMB Lucanin Malt Terminal and Port Facility Project**

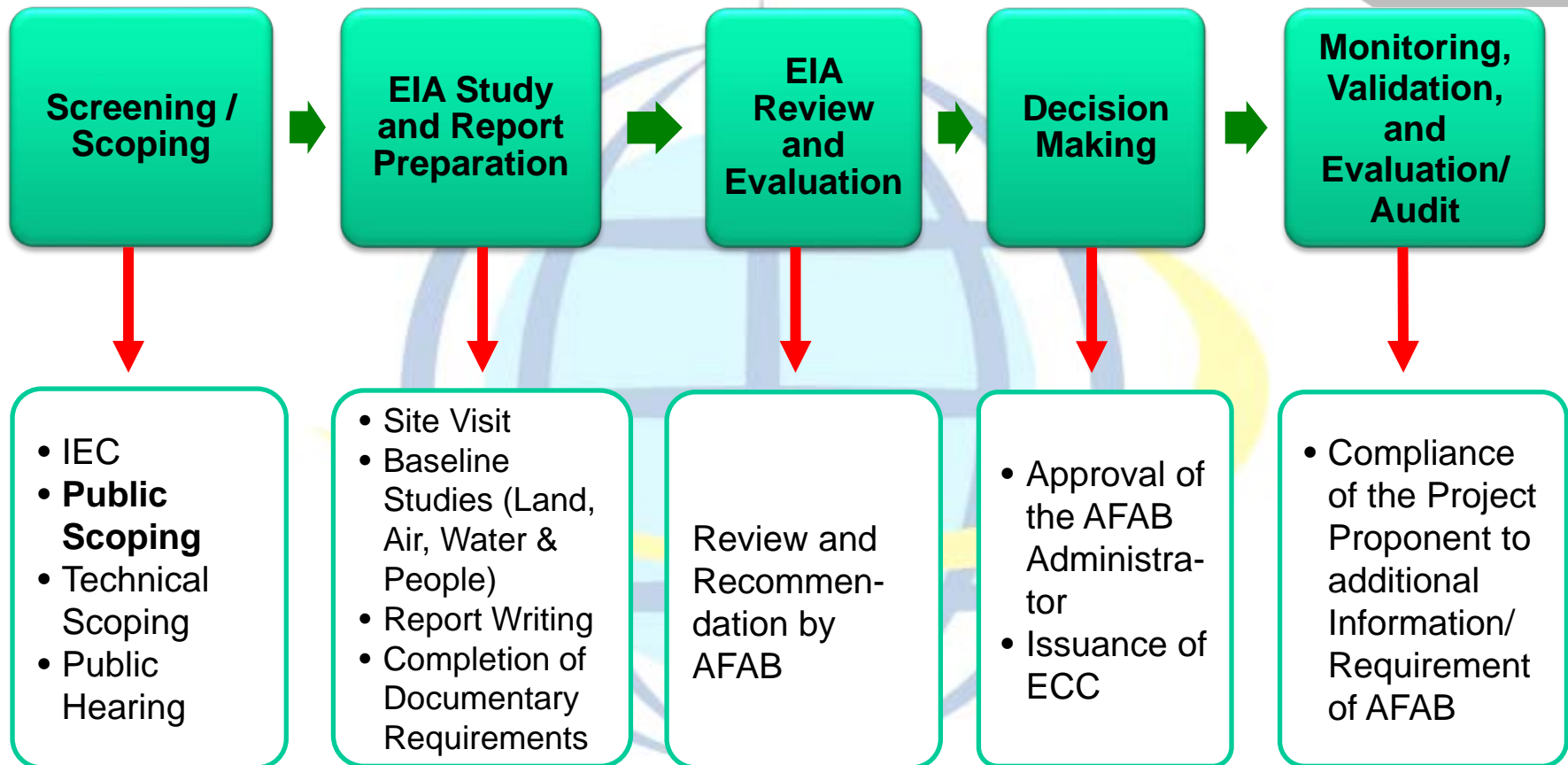
## **PUBLIC SCOPING ACTIVITY**

**PACIFIC SPECTRUM ENVIRONMENTAL  
Research and Consultancy, Inc.**

# PRESENTATION OUTLINE

- ☐ EIA Process
- ☐ Project Fact Sheet
- ☐ Project Background and Description
- ☐ Baseline Environmental Condition
- ☐ Significant Environmental Impacts and Mitigating Measures
- ☐ Corporate Social Responsibility
- ☐ Results of IEC

# EIA PROCESS (TO SECURE ECC)



# PROJECT FACT SHEET

Project Details	
Project Name	SMB Lucanin Malt Terminal and Port Facility Project
Project Location	Barangay Lucanin, Mariveles, Bataan
Project Type	Malt Terminal and Port Facility
Project Status	Pre-Construction
Project Proponent	<b>San Miguel Brewery Inc.</b>
Office Address	SMC Head Office, 40 San Miguel Avenue, Mandaluyong City
Contact Person	<b>Rofuat L. Lu</b> Assistant Vice President and Technical Services Group Manager Technical Services Group San Miguel Brewery Inc. Tel. No.: (+63 2) 8632-3100

# PROJECT FACT SHEET

EIS Report Preparers' Details	
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# PROJECT BACKGROUND

**San Miguel Brewery Inc. (SMB)**, intends to put up a malt terminal and port facility in a industrial area owned by Ruzena Estates located in **Brgy. Lucanin, Mariveles, Bataan**.

The proposed project, **SMB Lucanin Malt Terminal and Port Facility** will serve as a storage facility and receive bulk shipments of malt from international shipping vessels. Aside from receiving, this facility will also handle loading of malt to container vans for distribution to SMB breweries nationwide. The total storage capacity is 40,000 MT.

# PROJECT RATIONALE

- Store and distribute malt to various SMB breweries nationwide;
- Provide steady income to the employees and government income in the form of taxes, levies and fees;
- Support the government's national industrial development program; and
- Decongestion of other port facilities being rented by SMB



# PROJECT SITE LOCATION





# SITE DEVELOPMENT PLAN

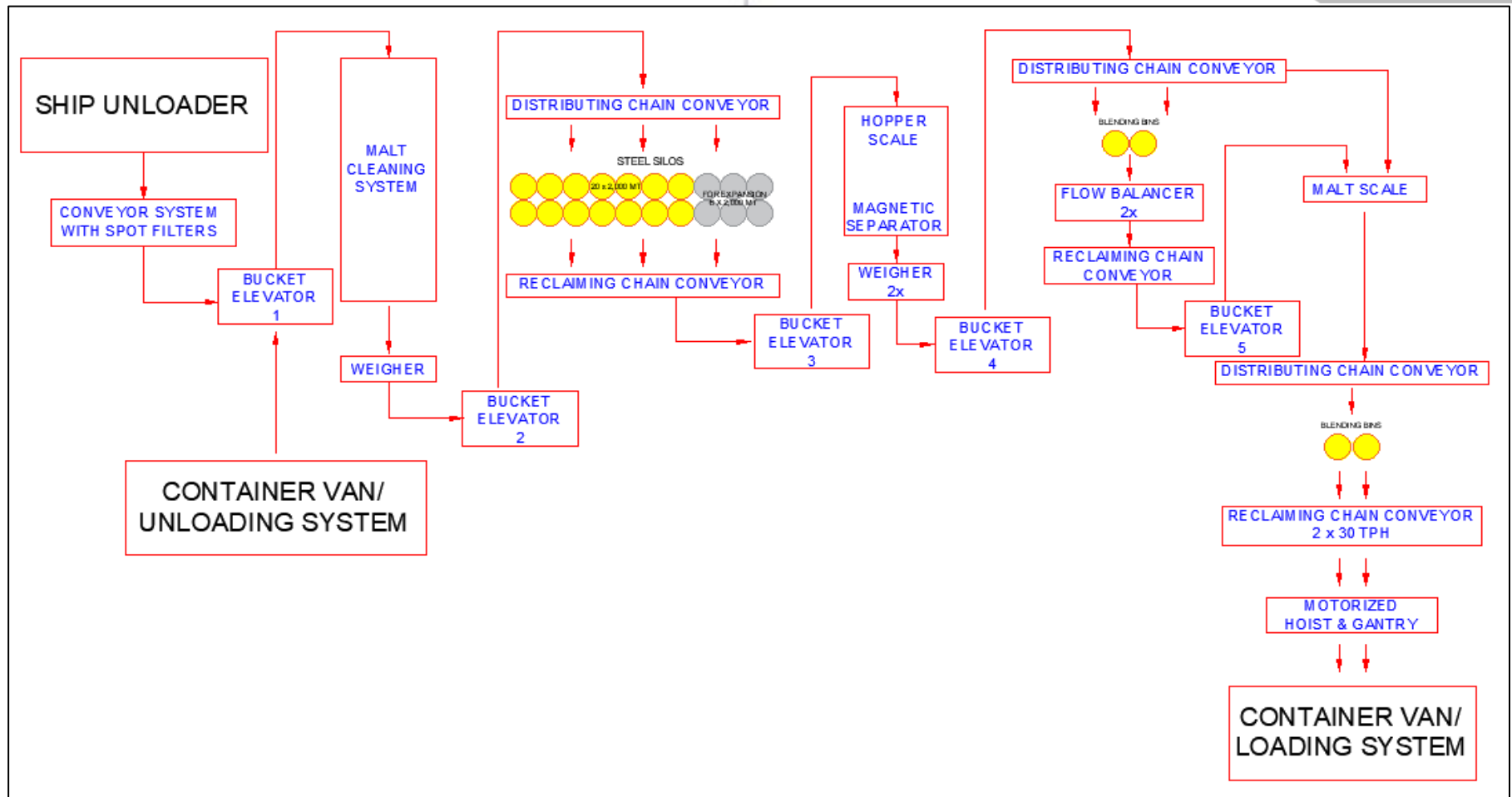


# PROPOSED COMPONENTS

Facilities
MALT TERMINAL
Head House Tower, Steel Silos with Foundation
Loading Bins
Blending Bins
Loading & Unloading Bay
Integrated Building
Administration Building
Canteen
Clinic
Utility Room (under loading & unloading silos)
Control Room
Tool Room
Stock Room
Air Compressor Room
Workshop
Driver's Lounge with CR
Pump House
Water Tank
Material Recovery Facility
Hazardous Waste Materials

Road Network
Parking Area
Truck Marshalling
Container Terminal
Truck Scale House
Truck Scale
Guard House
Genset
Substation
ABR with Constructed Wetland
Green Area
<b>SUB TOTAL AREA: 3.6 HECTARES</b>
<b>CONVEYOR SYSTEM (HEAD HOUSE TO ELEVATION +7.00 W/ 8 METERS OFFSET FROM ROAD)</b>
<b>SUB TOTAL AREA: 0.31 HECTARES</b>
<b>PORT FACILITY</b>
Port Facility with Ship Unloader
<b>SUB TOTAL AREA: 1.5 HECTARES</b>

# PROCESS FLOW





# PROCESS FLOW



**Malt Unloader**

*Malt unloading from a foreign vessel using a malt unloader*



**Conveyor**

*Transfer the malt from the unloader to the headhouse bucket elevator*

# PROCESS FLOW



**Aspirator**

*Separates less dense materials  
such as dust from the malt*



**Chain conveyor**

*Transfer malt to the silos*

# PROCESS FLOW



**Steel Malt Silos**

*Storage for malt*



# PROJECT REQUIREMENTS

## MANPOWER

### **Construction**

300 (including  
supervisory staff, security  
and workers)

### **Operation**

23 employees (including  
regular and utility staffs)

## UTILITY

### **Power**

5,000 kW and 1 MVA  
(440 V) standby GenSet

### **Water**

5 cubic meters per day

# PROJECT SCHEDULE

**Proposed Construction**

4<sup>th</sup> Quarter of 2022

**Proposed Operation**

2<sup>nd</sup> Quarter of 2024

# BASELINE ENVIRONMENTAL CONDITION

## LAND



- very gently sloping, suitable for urban development
- **low susceptibility** to landslide and flooding
- **prone** to ground shaking, storm surge and tsunami-generated Lubang fault-quake

- **Birds** (kingfisher, sparrow, dove) and **reptiles** (monitor lizard, python, gecko) present in vicinity. Mammals not observed in project site.
- Kakawati, Ipil-ipil, Duhat, etc. dominate the **trees** per Tree Inventory



# BASELINE ENVIRONMENTAL CONDITION

## WATER



# BASELINE ENVIRONMENTAL CONDITION

- Groundwater parameters all **within the guideline values**
- Dissolved oxygen, nitrate, phosphate, chloride, and sulfate for surface water **did not meet the guideline values**
- Marine water parameters all **within the guideline values (except for dissolved oxygen)**





# BASELINE ENVIRONMENTAL CONDITION

## Proposed SMB Lucanin Malt Terminal with Port Facility Area

Marine Water Sampling Stations

### Legend

- Marine Water Sampling Stations

Proposed SMB Malt Terminal Project

MW1

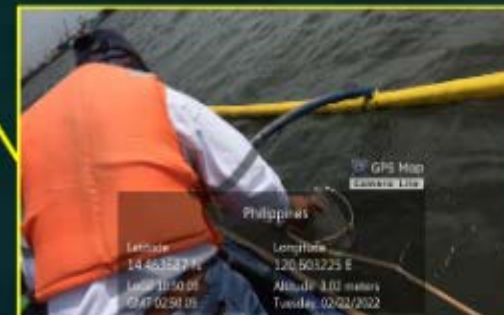
Proposed Port Facility

MW2

Manila Bay

MW3

MW4



Google

Image © 2022 TerraMetrics

Image © 2022 Maxar Technologies



3000 ft



# BASELINE ENVIRONMENTAL CONDITION

## Marine Ecology

- **Coral reef habitats not found** at the project site and vicinities.
- **Seagrass beds and mangrove stands also not found**
- Fishermen found 600 meters from shore
- Blue-green algae is the most dominant phytoplankton group while the copepods are the most abundant zooplanktons
- Garbage are found lined up on the shore


# BASELINE ENVIRONMENTAL CONDITION

## AIR

### Proposed SMB Lucanin Malt Terminal with Port Facility Project

Ambient Air Quality and Noise Level Sampling Stations

#### Legend

 Ambient Air Quality and Noise Level Sampling Stations



Proposed SMB Malt Terminal Project

Proposed Port Facility

- Ambient Air Quality parameters within guideline values
- Noise level for industrial areas within standard, residential areas exceeded



Google Earth

Image © 2022 TerraMetrics  
 Image © 2022 Maxar Technologies

2000 ft





# BASELINE ENVIRONMENTAL CONDITION

## PEOPLE



- Roman Superhighway has four (4) lanes
- Per Metro Bataan Development Authority, it has **excellent road condition** and **flow of traffic is always light**
- **No heavy traffic** observed during frequent visits
- Some residents interviewed said highway is **spacious**

# BASELINE ENVIRONMENTAL CONDITION

## SMB Lucanin Malt Terminal and Port Facility Project

Brgy. Lucanin, Mariveles, Bataan

### Legend

- Direct Impact Area
- Indirect Impact Area

Proposed SMB Malt Terminal Project

Construction Area

Residential Area

Logos Baptist Church

Commercial Area

Industrial Area

Residential Area

Roadway

Roadway

Residential Area

Residential Area

Seafront Shipyard & Marine Services

Roadway

Industrial Area

Roadway

Commercial Area

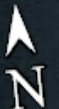
Residential Area

Samahan ng Mandaragat Community

Proposed Port Facility

Google Earth

Image © 2022 TerraMetrics  
Image © 2022 Maxar Technologies



800 m

# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Pre-Construction Phase

Component	Impacts	Mitigating Measures
LAND	<ul style="list-style-type: none"> <li>Improper waste disposal management</li> <li>Adaptability to disasters and climate change impacts</li> </ul>	<ul style="list-style-type: none"> <li>Create solid and hazardous waste management plan</li> <li>Consider soil bearing capacity limitations and earthquake risks in the structural engineering</li> </ul>
WATER	<ul style="list-style-type: none"> <li>Water quality degradation</li> <li>Impediment of flow of Manila Bay</li> </ul>	<ul style="list-style-type: none"> <li>Sanitary facilities in the design</li> <li>Proper waste management plan</li> <li>Consider free passage of water in pier design</li> </ul>
AIR	<ul style="list-style-type: none"> <li>Air quality degradation</li> </ul>	<ul style="list-style-type: none"> <li>Air pollution control equipment/ facilities in the design</li> </ul>
PEOPLE	<ul style="list-style-type: none"> <li>Disclosure of project components and activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct Public Participation activities to stakeholders</li> <li>Secure ECC from AFAB</li> </ul>



# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Construction Phase

Component	Impacts	Mitigating Measures
LAND	<ul style="list-style-type: none"> <li>Cutting of trees</li> <li>Land utilization and development</li> <li>Solid waste</li> </ul>	<ul style="list-style-type: none"> <li>Tree Cutting Permit</li> <li>Revegetation</li> <li>Minimize earth movement and proper stockpiling of soils</li> <li>Disposal of wastes through an accredited Third Party Service Provider</li> </ul>
AIR	<ul style="list-style-type: none"> <li>Fugitive dust</li> <li>Smoke emission from trucks</li> <li>Noise nuisance to nearby residents</li> </ul>	<ul style="list-style-type: none"> <li>Spray water within construction site</li> <li>Barriers</li> <li>Preventive maintenance</li> <li>Use of low noise equipment</li> <li>Scheduled construction hours</li> </ul>
WATER	<ul style="list-style-type: none"> <li>Domestic wastewater</li> <li>Degradation from solid wastes, siltation and surface run-off</li> </ul>	<ul style="list-style-type: none"> <li>Sanitary facilities like toiles/portalets</li> <li>Proper waste management and utilization of silt trap / silting ponds</li> </ul>



# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Construction Phase

Component	Impacts	Mitigating Measures
PEOPLE	<ul style="list-style-type: none"><li>• Provision of jobs to locals</li><li>• Additional income to the government and local suppliers</li><li>• Likelihood of accidents to the workers</li><li>• Increased concern on security and traffic</li><li>• Exposure to COVID-19 hazard</li></ul>	<ul style="list-style-type: none"><li>• Prioritize qualified local applicants</li><li>• Personal Protective Equipment (PPE)</li><li>• Coordinate with DPWH</li><li>• Provide PPE</li><li>• Comply to DOH/IATF guidelines</li></ul>

# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Operation Phase

Component	Impacts	Mitigating Measures
LAND	<ul style="list-style-type: none"> <li>• Solid wastes</li> <li>• Soil contamination from used oil and wastes</li> <li>• Potential presence of rodents</li> </ul>	<ul style="list-style-type: none"> <li>• Regular and proper collection of wastes through accredited Third Party Service provider</li> <li>• Implement solid waste management plan</li> <li>• Secondary containments</li> <li>• Proper storage in silos</li> <li>• Rodent pest control program</li> </ul>
AIR	<ul style="list-style-type: none"> <li>• Smoke emission from trucks</li> <li>• Emissions from Air Pollution Source Installation (APSI) i.e Standby GenSet</li> <li>• Dust from malt</li> </ul>	<ul style="list-style-type: none"> <li>• Preventive maintenance</li> <li>• Stack sampling per DENR guideline</li> <li>• Preventive maintenance</li> <li>• Dust aspiration system and enclosed conveyor belts</li> </ul>

# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Operation Phase

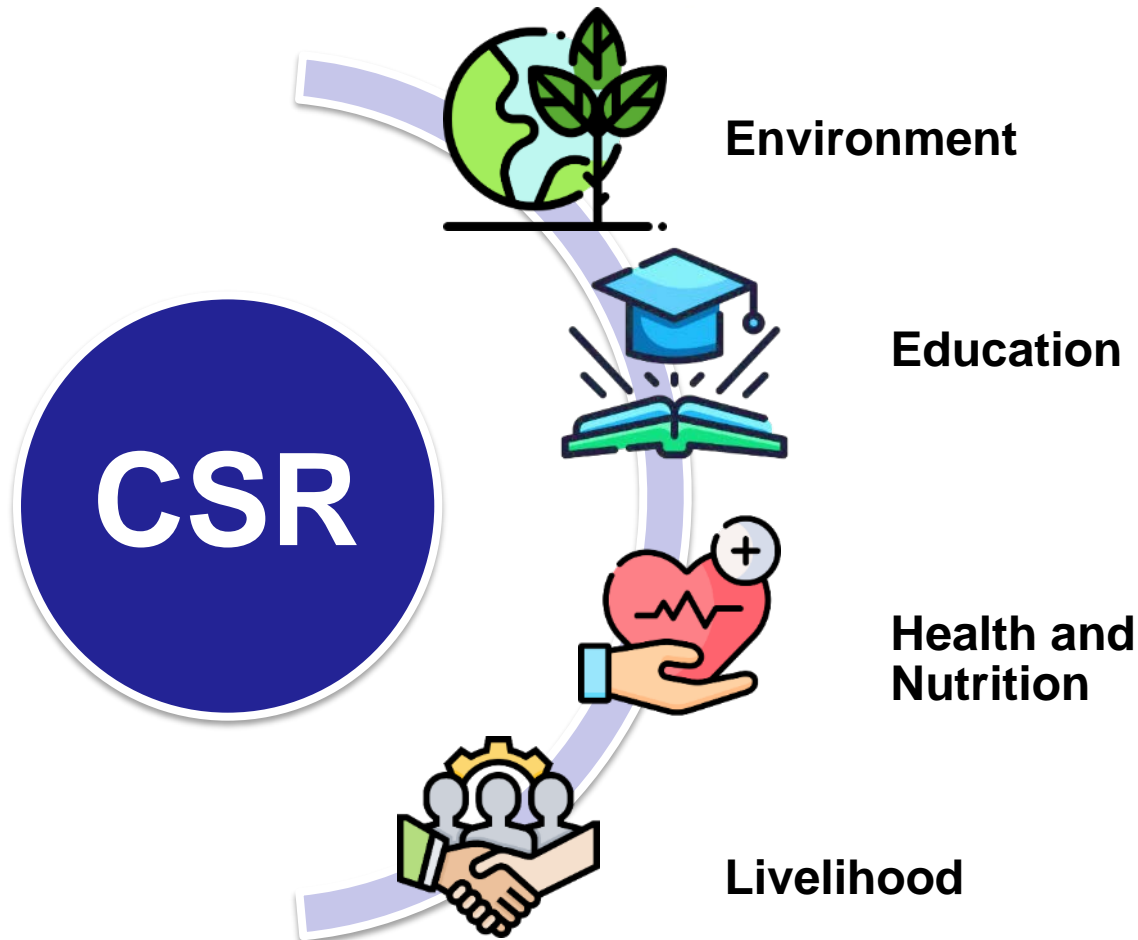
Component	Impacts	Mitigating Measures
<b>WATER</b>	<ul style="list-style-type: none"> <li>Wastewater</li> <li>Sludge</li> <li>Possible contamination from oil spills</li> </ul>	<ul style="list-style-type: none"> <li>Wastewater Treatment Facility</li> <li>Influent and effluent monitoring</li> <li>Engagement with accredited Third Party Service provider</li> <li>Oil Spill Contingency Plan of ship contractors</li> </ul>
<b>PEOPLE</b>	<ul style="list-style-type: none"> <li>Provision of jobs to locals</li> <li>Additional income to the government and local suppliers</li> <li>Likelihood of accidents to the workers and exposure to COVID-19</li> <li>Increase concern in security and traffic</li> </ul>	<ul style="list-style-type: none"> <li>Prioritize qualified local residents in the hiring process</li> <li>Provide PPE</li> <li>Compliance to DOH/IATF guidelines</li> <li>Security guards and barangay tanods</li> <li>Allot vertical clearance for the overhead conveyor system</li> </ul>

# SIGNIFICANT ENVIRONMENTAL IMPACTS AND MITIGATING MEASURES

## Abandonment Phase

Component	Impacts	Mitigating Measures
LAND	<ul style="list-style-type: none"> <li>Solid waste</li> <li>Soil contamination due to hazardous waste</li> </ul>	<ul style="list-style-type: none"> <li>Regular and proper collection of wastes through accredited Third Party Service provider</li> <li>Designate hazardous wastes storage area</li> </ul>
WATER	<ul style="list-style-type: none"> <li>Runoffs and Siltation</li> </ul>	<ul style="list-style-type: none"> <li>Silt trap / silting ponds</li> </ul>
AIR	<ul style="list-style-type: none"> <li>Fugitive dust</li> <li>Noise nuisance to nearby residents</li> </ul>	<ul style="list-style-type: none"> <li>Spray water</li> <li>Barriers</li> <li>Low noise equipment</li> <li>Scheduled construction hours</li> </ul>
PEOPLE	<ul style="list-style-type: none"> <li>Loss of employment</li> <li>Other</li> </ul>	<ul style="list-style-type: none"> <li>Early notice of the closure</li> <li>Livelihood training and job placement assistance when possible</li> <li>Give proper compensation</li> <li>Rehabilitate than demolish</li> </ul>

# CORPORATE SOCIAL RESPONSIBILITY



# CORPORATE SOCIAL RESPONSIBILITY



## ENVIRONMENT



Photo source: <https://www.thefinancialdistrict.com.ph/post/smo-power-nears-target-3m-trees-planted-to-align-with-renewable-push>

- Material recovery and composting center with seedling nursery to be located in the proposed project or in the barangay.
- Aside from our concrete manifestation of our policy on the environment, this will reduce freight, transport and hauling expenses in waste management at the same time be a source of seedlings for future tree planting activities .





# CORPORATE SOCIAL RESPONSIBILITY



## EDUCATION



Photo courtesy of: fb / DepartmentOfEducationPH

Photo source: <https://metronewscentral.net/metro-cities/depd-to-launch-16th-brigada-eskwela-on-may-16>

- Brigada Eskwela for learning institutions. Refurbishment of school facilities and donation of educational supplies and fixtures.



# CORPORATE SOCIAL RESPONSIBILITY



## HEALTH AND NUTRITION



Photo Source: <https://www.manilatimes.net/2022/09/10/news/national/dbm-allocates-p37b-for-dswds-feeding-program/1857938>

- Supplemental feeding program and support to lactating and breastfeeding mothers.
- Dental and medical mission.

# CORPORATE SOCIAL RESPONSIBILITY



## LIVELIHOOD





Photo Source: <https://www.savethechildren.org.ph/our-work/our-stories/story/building-sustainable-livelihoods/>

- Skills training and support to enhance skills and income particularly to low income families e.g fisherfolks.




# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Environment

Stakeholders	Issues/Suggestions Raised	Response / Course of Actions
<p>Brgy. Lucanin</p> 	<p><b><i>Magkaroon ng concrete plan regarding sa pangangalaga sa karagatan nang sa ganun ay maprotektahan din ang mga mangingisda na ang pangunahing ikinabubuhay ay sa dagat.</i></b></p> <p><i>Sana ay magkaroon ng positibong tugon ang concern/feedbacks na ito.</i></p>	<p>Ayon sa ginawang pag-aaral sa dagat, walang natagpuan na sea grass o corals sa dalampasigan.</p> <p>Para maiwasan ang pagdumi o paglabo ng dagat na sanhi ng construction at operasyon ng proyektong ito, ipapatupad ang mga sumusunod:</p> <ul style="list-style-type: none"> <li>• Paglalagay ng sediment control</li> <li>• Paglalagay ng sapat na Sewerage Treatment Facility</li> <li>• Pagmomonitor sa kalidad ng influent at effluent</li> <li>• Tamang pamamahala ng solid at hazardous wastes</li> </ul>
<p>Mariveles National High School Cabcaben</p> 	<p>Construction's potential hazard to land, air, water, and neighboring homes will be a major issue, and SMB must be able to take all required safety precautions and will be responsible and liable for any and all potential hazards.</p>	<p>These are noted.</p>


# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Environment

Stakeholders	Issues/Suggestions Raised	Response / Course of Actions
<b>Mariveles National High School Cabcaben</b>  	<p>Is it still safe for our small fisherman to access our coastal area?</p> <p>Will it still be safe for us to eat the seafoods that we can get from our coastal area?</p> <p>Can we still enjoy swimming in our coastal area?</p> <p>Not in favor of the project but they are hopeful that SMB will take into considerations about the raised concerns by conducting public hearing so that the residents will have further understanding about this project.</p>	<p>Yes but with caution for incoming and outgoing ships</p> <p>Yes, the construction and operation of pier will strictly abide to environment safety as monitored by AFAB.</p> <p>Yes. SMB will manage its wastewater discharge. The port facility will take a portion only of the shore.</p> <p>All concerns are and will be considered for the project's construction and operation.</p>



# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Environment

Stakeholders	Issues/Suggestions Raised by Stakeholder	Response / Course of Actions
<b>Logos Christian Academy</b> 	<p>1. What will be the expected noise from the construction and operation of this project?</p> <p>2. How will the noise be managed and when will this be encountered?</p> <p>3. For traffic management, will the roads remain clear? Otherwise, up to what extent will the roads be affected? Road safety is one of our main concerns.</p> <p>4. Are we expecting any pollution that will have a stench? We are mostly concerned about the discomfort and our health regarding this matter.</p> <p>5. What will be the effect of this in our subdivision? Will there be any expected disturbances?</p>	<p>Noise will come from vehicles and equipment during construction. No noise expected during operation.</p> <p>Noise is expected during construction only. Barriers will be out up. Construction hours will be conducted daytime. Mufflers will be used, when necessary.</p> <p>Road should remain clear during construction and operation. The ingress and egress may pick up traffic but not significant. An internal traffic scheme is prepared for vehicle loading/unloading.</p> <p>Odor will not be a concern since the malt operation involves dry-process only.</p> <p>Expected disturbances during construction may be noise and fugitive dust and malt dust during operation but will be managed accordingly.</p>

# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)


## Environment

Stakeholders	Issues/Suggestions Raised by Stakeholder	Response / Course of Actions
<b>Villa Imperial Resort</b> 	<p>Malt dust possible to be carried away to the Villa Imperial Resort</p> <p>If these dusts are carried away, more maintenance problem will occur at Villa Imperial Resort's pools.</p> <p>Possible income for Villa Imperial Resort (seen advantage)</p>	<p>Conveyor belts are fully enclosed and dust aspirators/collectors will be installed. Proper housekeeping shall be performed in the facility. Should there be malt dust observed in the resort, you may report it to us for our investigation and appropriate action.</p>
<b>Seafront Shipyard and Port Terminal Services</b> 	<p>On behalf of Seafront, we have no objection to SMB Lucanin Malt Terminal as our next neighbor here in Lucanin. San Miguel is one of our valued client. The only concern we would like to know is the distance of our port to their proposed pier so we can check with our pilot if there will be no problem or hindrance on the movement of vessel during docking and undocking from pier.</p>	<p>Distance is about 200 meters. San Miguel is willing to discuss further the maritime traffic with the Seafront's pilot through a separate meeting.</p>






# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Corporate Social Responsibility

Stakeholders	Issues/Suggestions Raised	Response / Course of Actions
<b>Logos Christian Academy</b> 	Since this is a project of San Miguel Brewery, a private organization, will our institution and your other stakeholders benefit through your company's Corporate Social Responsibility? Are there any projects in place to address the anticipated concerns of your stakeholders?	Yes. Our Corporate Social Responsibility programs will be aligned to the programs of Brgy. Lucanin and Mariveles LGU. As a SMC subsidiary, our goal also is to create a meaningful project with the community. Our office is open for concerns should you have any. This is also for the improvement of the project.
<b>Villa Imperial Subdivision</b>	SMB must be responsible enough to be sensitive to issues concerning their project. SMB must be aware of their social responsibility such as the safety of the community and must be conscious of their social obligation.	This is well-noted and taken.




# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Manpower

Stakeholders	Issues/Suggestions Raised	Response / Course of Actions
<p>Brgy. Lucanin</p> 	<p><i>Sa pagsisimula ng construction process, <b>mas maganda kung ang mga residente ng aming Barangay ang priority para mabigyan ng trabaho.</b> Katulad na lamang ng carpenter, plumbers, mason at iba pa nang sa ganun magbukas ito ng oportunidad sa mga walang trabaho sa aming Barangay.</i></p>	<p>Pagbibigay prayoridad sa mga kwalipikadong residente ng Brgy. Lucanin at Mariveles na makinabang mula sa pagkakaroon ng trabaho. Kami po ay makikipag-coordinate sa PESO or sa brgy. para sa mga aplikante.</p>
<p>Lucanin Elementary School</p> 	<p>The project is a great opportunity for the people in the community if they will be given <b>priority for the needed manpower for the proposed project since it will create livelihood.</b> Hoping that the terminal will not cause problems on the health of the people and it will not create pollution in the community. The health and safety of our citizen are our great concern regarding this matter.</p>	<p>Qualified local residents will be given priority in the hiring process. Public health concern is also the concern of the management. Measures will be employed to ensure concerns will be addressed and minimized from the start.</p>
<p>Mariveles National High School Cabcaben</p> 	<p>Demand for malt will increase; and the SMB project will be a significant benefit and opportunity to the Mariveleño and the province of Bataan by creating numerous job opportunities and provide a stable source of income for employees as well as the government through tax and other fee payments.</p>	<p>Your feedback is highly appreciated.</p>
<p>Villa Imperial Subdivision</p>	<p>Hoping that the project will generate jobs not only for the people of Lucanin and Mariveles but for the whole province of Bataan as well.</p>	<p>Possible when bigger manpower is needed but we need to prioritized first the qualified local residents for the job opportunity.</p>

# RESULTS OF INFORMATION AND EDUCATION CAMPAIGN (IEC)

## Others

Stakeholders	Issues/Suggestions Raised	Response / Course of Actions
<b>Authority of the Freeport Area of Bataan</b> 	To provide original hard copy of the IEC Letters to AFAB for recording purposes	These will be forwarded to AFAB.
<b>Mariveles LGU (Previous Administration)</b>	Will there be reclamation?	There will be no reclamation
<b>Mariveles LGU (New Mayor's and Vice Mayor's Office, Sangguniang Bayan)</b> 	<p>Consider the effects of the Proposed Bataan-Cavite Interlink Bridge as this may affect the maritime route</p> <p>Advised to secure permits</p> <p>What is the update on the relocation of residents in Sitio Boracay?</p> <p>Is the area for the conveyor system still covered under Ruzena Estates?</p>	<p>This shall be coordinated with MARINA</p> <p>List of permits were already provided by Sangguniang Bayan Secretary. These permits will be processed.</p> <p>All residents have already been located and sent positive feedbacks.</p> <p>It is part of Ruzena Estates. TCTs are being finalized.</p>
<b>Department of Public Works and Highways (DPWH)</b> 	What is the status of the project? Where will the ECC be applied?	Project is still on pre-construction phase. ECC will be secured from AFAB (and not from EMB) since it is located under their jurisdiction.



# **QUESTION & ANSWER**



# THANK YOU!

Because there is  
only one Earth.



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