

PROJECT DESCRIPTION FOR SCOPING (PDS)

1. BASIC PROJECT INFORMATION

Project Information	
Name of Project	Proposed Argao Floating Storage, Regasification and Power Plant Project
Location	Brgy. Bulasa, Argao, Cebu
Background and Nature of Project	This is a new Project composed of a floating LNG storage and regasification unit and a 150-MW power plant
Size and Scale	Floating Storage and Regasification Unit, and a 150-MW Power Plant (FSRPP)
Proponent Profile	
Name of Proponent	PHINMA Petroleum and Geothermal, Inc.
Address	L11 PHINMA Plaza, 39 Plaza Drive Rockwell Center Makati City 1200 Philippines
Contact Person and Details of Proponent's Authorized Rep.	Mr. Raymundo A. Reyes, Jr. Executive Vice President and Chief Operating Officer
Preparer Profile	
Name of Preparer	Mediatrix Business Consultancy
Address	L29 Joy-Nostalq Centre, 17 ADB Ave., Ortigas Centre, Pasig City
Contact Person and Details of Preparer's Authorized Rep.	Ms. Matilde J. Fernando, General Manager 689-7114 and 0917-5064499

2. PROJECT DESCRIPTION

Project Location/Area	<p>The proposed project will be located in Brgy. Bulasa, Argao, Cebu within an estimated area of 16 hectares.</p> <p>Attached in Annex A is the proposed project location in google map.</p> <p>Shown in Annex B are plates of project site photographs.</p>
Project Rationale	<ul style="list-style-type: none"> The project supports the government's thrust towards energy security and sustainability and provides an alternative solution in the anticipated depletion of the Malampaya Gas Project considering the country's increasing demand for power.
Project Components List	<p>Main equipment:</p> <ul style="list-style-type: none"> Floating Storage and Regasification Unit 150 MW Power Plant <p>Ancillary equipment:</p> <ul style="list-style-type: none"> Jetty Transmission Line Tower/ Sub-station Onshore Facilities (Workshop, Living Quarters, Water Supply, Sanitary System, Pump Stations)

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Provided in Annex C is the proposed Site Development Plan showing the project components.

Project Phases, Key Environmental Aspects, Wastes, Issues, Built-in Measures

Major Activities Description / Details Key Environmental Aspects or Activities	Potential Impact, Nature and Estimate of Major Emissions	Impact Mitigation, Built-in Management Measures and Planned Facilities
Preconstruction Phase		
Land	Land use compatibility	No change in land use because the jetty/causeway is already built
Construction Phase		
Generation of domestic waste	Contamination of water quality	Provision of septic tanks and implementation of septage management Implementation of a Waste Management Plan
Use of domestic water	Water resource use competition	Water supply from utilities will be used for domestic purposes only
Construction of the floating storage and regasification unit	Air emission and noise pollution from vessels delivering materials (TSP, PM10, PM2.5, SOX, NOX)	Proper maintenance of equipment Good house keeping Oil spill management Air Quality Analysis
	Damage / impacts to mangrove areas	Mangrove areas will not be affected as it is outside the project area
Operations Phase		
Storage, handling and transport of LNG	Health and safety hazards	<ul style="list-style-type: none"> • Health and safety policies • Emergency Response Plan • Employee safety inspections and toolbox meetings • Regular APE • Use of PPEs • First aid training
Power plant operations	Generation of air emissions	Compliance with RA 8749 standards Air Quality Analysis
	Generation of hazardous wastes such as used oil, busted bulbs and contaminated rags and gloves	<ul style="list-style-type: none"> • Implementation of a Waste Management Plan • Used oil will be collected, transported and treated through an accredited TSD facility. • Busted Fluorescent bulbs will be properly stored in accumulation until there is sufficient inventory for proper disposal through an accredited TSD facility. • Contaminated rags and gloves are stored in accumulation until there is sufficient inventory for proper disposal through an accredited TSD facility.

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		<ul style="list-style-type: none"> • Analysis of waste and implementation of proper treatment, storage and disposal
	Water pollution	Compliance with DAO 2016-08 standards
	Impacts to mangrove areas	Mangrove area is outside the project area
	Noise pollution	<ul style="list-style-type: none"> • Training on proper equipment use and speed • Use of enclosures, barriers, and buffer zones
	Employment generation	Preference will be given to qualified residents of Brgy. Bulasa through proper recruitment system with the help of the PESO
	Increase in economic opportunities through associated incomes and taxes	Benefits under ER 1-94 will be enjoyed by the host LGU
Storage, handling and transport of LNG	Health and safety hazards (e.g. heat and hot liquids)	<ul style="list-style-type: none"> • Health and safety policies • Installation of proper ventilation in enclosed areas • Employee safety inspections and toolbox meetings • Regular APE • Use of PPEs • First aid training • Emergency Response Plan
<i>Abandonment Phase</i>		
Removal of wastes and oil spills if any Removal of all equipment, Actual rehabilitation	Change in land use Loss of jobs and community programs	<ul style="list-style-type: none"> • Grading and drainage stabilization works • Soil conditioning and planting of endemic species or reforestation • Retrenchment package • Labor support programs
Manpower	The Project will employ an estimated number of workers as follows: <ul style="list-style-type: none"> • During construction = Approximately 70 personnel • During operations = Approximately 50 personnel 	
Project Cost and Duration	<p>Project investment is estimated at US\$ 130 million to be financed through project financing.</p> <p>PPG intends to develop the Project within four years. Pre-development activities from site investigation, permitting, engineering to project financing are targeted to be completed within one year in 2018.</p> <p>The construction will commence as soon as the ECC is issued and local permits are secured,</p> <p>The construction of the facilities, including the jetty, floating storage and regasification unit and power plant (FSRPP) and the transmission line, is targeted to be completed within two years from the final investment decision. Final testing and commissioning will be conducted for a target commercial operation in 2021.</p>	

LIST OF ANNEXES

Annex A: Location Map

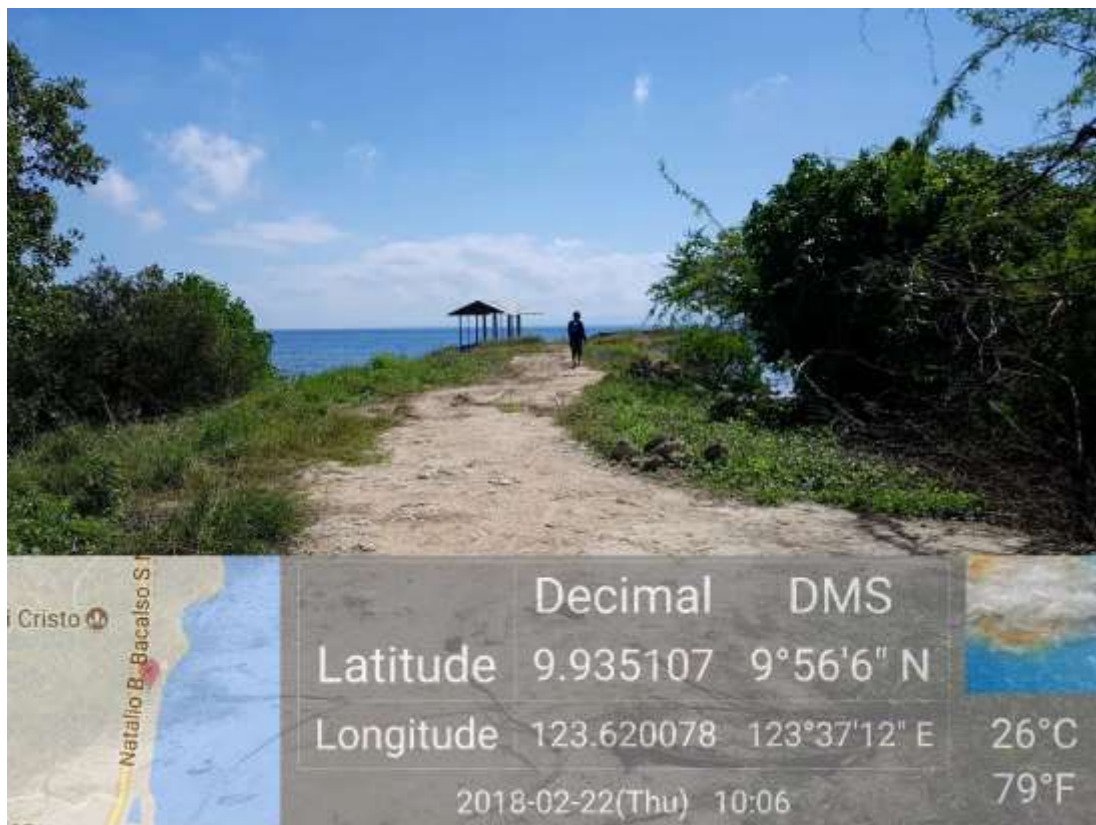
Annex B: Plate of Project Site Photographs

Annex C: Site Development Plan

Annex A: Location Map

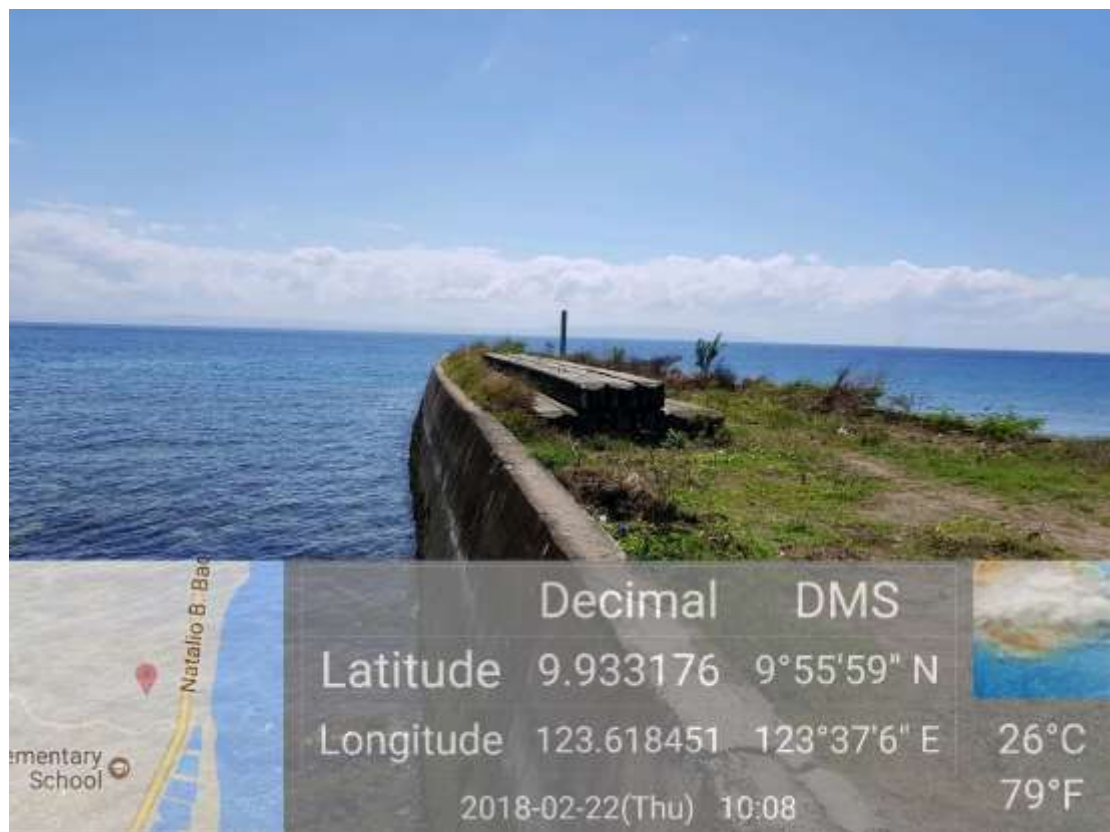


Annex B: Plate of Project Site Photographs





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Annex C: Site Development Plan



