

# **INDICATIVE MANAGEMENT PLAN**

## **INTRODUCTION**

Since time immemorial the commodity requirements for Marinduque, mostly manufactured in CALABARZON and Metro Manila, and some report products were handed thru the national Port of Balanacan in the town of Mogpog, which is considered more of a ferry/ro-ro port being operated by the Philippine Ports Authority (PPA). With the development of Cawit Pier in the Town of Boac (with 120-meter wharf and ro-ro ramp), Marinduque has now an alternative gateway for the handling of its commodity requirements and also rice and other agricultural products directly from Oriental Mindoro. The drawback from the Cawit Pier in terms of handling cargoes is that it is not an all-weather port, the berthing facilities in same port cannot be used for a substantial amount of time during southwest monsoon.

The Provincial Government of Marinduque, consistent with the Vision of Governor Presbitero Jose Velasco, Jr. to convert the province to an industrial and logic hub for MIMAROPA, has allocated a substantial area of public/national government land in the town of Sta Cruz for an International Port Development.

The Repair/Rehabilitation of Balogo Port, Sta. Cruz, Marinduque represents a pivotal endeavor aimed at revitalizing and enhancing the operational efficiency, safety, and functionality of this vital maritime gateway. Situated at the crossroads of international trade and commerce, Balogo Port has long played a crucial role in facilitating the movement of goods and fostering economic growth in the region. As the maritime industry continues to evolve, Balogo Port's repair and rehabilitation initiative seeks to not only address immediate infrastructural concerns but also lay the foundation for long-term viability.

## **PROJECT DESCRIPTION:**

The Repair/Rehabilitation of proposed port is the former marine facilities and formerly used by Marcopper Mining Corporation. Balogo Port, Sta. Cruz, Marinduque has historically served as a crucial gateway for trade, commerce, and transportation in the province during mining excavation of Marcopper Mining Corporation. However, over time the port's infrastructure has deteriorated, hindering its operational efficiency and capacity. This project seeks to address these issues by undertaking comprehensive repairs and modernization efforts. The project for the Repair/Rehabilitation of Balogo Port includes the construction and repairing local access roads and reinforcing berths, quays, piers, and jetties.

## **OBJECTIVES:**

The general objective of the project is to revitalize and modernize Balogo Port through comprehensive repair and rehabilitation efforts that improve its functionality, safety, and operational efficiency, ultimately contributing to the facilitation of international trade, economic development, and environmental stewardship.

The following specific objectives are as follows:

- To build, strengthening and repairing berths, quays, piers, and other port structures to meet the standard and future port demand forecast;
- To replace or refurbishment of deteriorated concrete, steel, and other materials.
- To establish a foundation for the long-term viability of Balogo Port by implementing a sustainable maintenance plan that ensures the continued functionality and safety of rehabilitated facilities.
- To ensure that all repair and rehabilitation work meet or exceeds industry standards and quality benchmarks, guaranteeing the longevity and effectiveness of the improvements.

## **AREA DESCRIPTION:**

### Location

Barangay Balogo is located in the municipality of Sta. Cruz which is bounded on the north by the Tayabas Bay, on the east by the Polo Island, on the west by Barangay Hupi and on the south by the Barangay Bitik. It is located 3.8 kilometres from the town center of the municipality of Sta. Cruz, and 36 kilometres away from the Provincial Capitol in municipality of Boac. It is accessible through the national highway and provincial road. The project area is about 36.0 nautical miles away from Dalahican National Sea Port in Lucena City, Quezon Province.

### Topography

The general feature of the project area ranges from flat terrain to sloping and rolling terrain, Barangay Balogo is a coastal barangay with highest elevation of 98.0 meters above sea level using Barangay Buyabod as benchmark. The coastal area of Barangay Balogo is covered by mangrove areas with areas devoted to fish pond, the semi-fat parcels of land are devoted to rice, corn and the hilly areas are mostly planted with coconut intercrop with various fruit trees and cash crops.

## **PROJECT SCHEDULE:**

The fundamental factors in determining the project implementation are the availability of following items, detailed engineering design (DED), program of works (POW), project cost estimate, application of required permits, and environmental compliance to concerned national government agencies. The provincial government is on the process of complying the above requirements and targeted the project Ground-Breaking on March 2022, contract duration of Project Construction for Repair/Rehabilitation of Balogo Port, Sta. Cruz, Marinduque is 360 calendar days.



**TECHNICAL ASPECT:**Project Components

ITEM	DESCRIPTION
FACILITIES TO THE ENGINEER	Provision Combined Field Office, Laboratory and Living Quarters Building for the Engineer (Rental Basis); Provision Furniture/Fixtures, Equipment & Appliances for the Field Office for the Engineer; Provision of Laboratory testing Equipment, Apparatus and Publications for the Engineer; Operation and Maintenance of Temporary Field Office, Laboratory and Living Quarters Building for the Engineer; Provision of Survey personnel for the Assistance to the Engineer; Provision of Progress Photographs.
OTHER GENERAL REQUIREMENTS	Medical Room and First Aid Facilities; Project Billboard/Signboard; Occupational Safety and Health Program; Mobilization / Demobilization; Craneway
EARTHWORK	Surplus Common Excavation; Embankment from Roadway/ Structure Excavation/ Hard Rock Excavation; Subgrade Preparation, Common Material
SURFACE AND BASE COURSE	Aggregate Subbase Course
SURFACE COURSE	Portland Cement Concrete Pavement (Unreinforced), 0.15m thick 14 days & 0.28m thick 7 days
BRIDGE CONSTRUCTION	Precast Concrete Piles, Furnished, 450x450mm; Precast Concrete Piles, Driven; Test Piles, furnished and driven, 450x450mm
BANK AND SLOPE PROTECTION WORKS	Reinforcing Steel, Grade 40; Structural Concrete 27.58 Mpa, Class A 14days; Expansion Joint
DRAINAGE &SLOPE PROTECTION STRUCTURE	Pipe Culverts RCPC 910 mm dia. (Class IV)
MISCELLANEOUS STRUCTURES	Single Arm Post, with Street Light 175W LED, 10m
PROTECTIVE WORKS AND ACCESSORIES	Bollard with Accessories; Installation of Rubber Dock Fenders
BULKHEADS	Rock Works, Class I Rock

**MANAGEMENT ASPECTS:**

The Repair and Rehabilitation project for Balogo Port, Sta. Cruz, Marinduque has careful management across various aspects. This project management ensures that the repair and rehabilitation of Balogo Port is completed on time, within budget, and with the desired quality.

## FINANCIAL ASPECTS:

### Sources of Funds

The Repair/Rehabilitation of Balogo Port, Sta. Cruz, Marinduque funded by the National Government through the Department of Transportation (DOTr) with the amount of Three Hundred Million Pesos (Php300,000,000.00) as provided from General Appropriations Act (GAA) of CY 2022.

### Financial Projection

The financial evaluation for Repair/Rehabilitation of Balogo Port, Sta. Cruz, Marinduque was not undertaken in this report but will definitely be included in the next stage of study, which is the full-blown feasibility study.

### Project Cost

The estimated project costs for repair/rehabilitation of Balogo port is Two Hundred Ninety-Three Million Seven Hundred Fifty-Seven Thousand Nine Hundred Seventy-Two Pesos and 08/100 (PHP 293,757,067.08) and are broken down as follows:

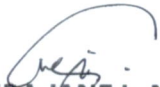
Item No.	Description	Unit	Quantity	Unit Price	Amount (Php)
<b>PART I</b>	<b>FACILITIES TO THE ENGINEER</b>				
A.1.1(6)	Provision Combined Field Office, Laboratory and Living Quarters Building for the Engineer (Rental Basis)	mos.	12.00	34,500.00	414,000.00
A.1.1(11)	Provision Furniture/Fixtures, Equipment & Appliances for the Field Office for the Engineer	l.s.	1.00	304,865.00	304,865.00
A.1.1(14)	Provision of Laboratory testing Equipment, Apparatus and Publications for the Engineer	l.s.	1.00	138,000.00	138,000.00
A.1.1(15)	Operation and Maintenance of Temporary Field Office, Laboratory and Living Quarters Building for the Engineer	mos.	12.00	23,000.00	276,000.00
A.1.2(4)	Provision of 4x2 Pick Up Type Service Vehicle for the Engineers on Bare Rental Basis	mos.	12.00	65,500.00	786,000.00
A.1.2(6)	Operation and Maintenance of 4x2 Pick-Up Type Service Vehicle for the Engineer	mos.	12.00	60,000.00	720,000.00
A.1.3(3)	Provision of Survey personnel for the Assistance to the Engineer	mos.	12.00	51,060.00	612,720.00




A.1.4(1)	Provision of Progress Photographs	each	600.00	8.34	5,004.00
SUB-TOTAL AMOUNT OF BID				Php 3,256,589.00	
PART B	OTHER GENERAL REQUIREMENTS				
B.2	Medical Room and First Aid Facilities	l.s.	1.00	48,990.00	48,990.00
B.5	Project Billboard/Signboard	each	2.00	3,436.96	6,873.92
B.7(2)	Occupational Safety and Health Program	l.s.	1.00	946,335.00	946,335.00
B.9	Mobilization / Demobilization	l.s.	1.00	520,000.00	520,000.00
B.18(1)	Craneway	l.s.	1.00	50,224,650.00	50,224,650.00
SUB-TOTAL AMOUNT OF BID				Php 51,746,848.92	
PART C	EARTHWORK				
102(2)	Surplus Common Excavation	cu.m	4,942.89	180.43	891,845.64
104(1)	Embarkment from Roadway/ Structure Excavation/ Hard Rock Excavation	cu.m	630.89	190.56	120,222.40
105(1)a	Subgrade Preparation, Common Material	sq.m	13,771.48	22.29	306,966.29
SUB-TOTAL AMOUNT OF BID				Php 1,319,034.33	
PART D	SUBBASE AND BASE COURSE				
200(1)	Aggregate Subbase Course	cu.m	3,725.16	1,233.37	4,594,500.59
SUB-TOTAL AMOUNT OF BID				Php 4,594,500.59	
PART E	SURFACE COURSE				
311(1)a	Portland Cement Concrete Pavement (Unreinforced), 0.15m thick 14 days	sq.m	3,097.49	1,030.13	3,190,817.37
311(1)e2	Portland Cement Concrete Pavement (Unreinforced), 0.28m thick 7 days	sq.m	10,030.00	1,688.37	16,934,351.10
SUB-TOTAL AMOUNT OF BID				Php 20,125,168.47	
PART F	BRIDGE CONSTRUCTION				
400(4)a2	Precast Concrete Piles, Furnished, 450x450mm	m	12,870.00	5,453.27	70,183,584.90
400(14)	Precast Concrete Piles, Driven	m	12,852.00	2,068.08	26,578,964.16
400(16)b	Test Piles, furnished and driven, 450x450mm	m	174.00	10,191.98	1,773,404.52
SUB-TOTAL AMOUNT OF BID				Php 98,535,953.58	
PART I-B	BANK AND SLOPE PROTECTION WORKS				
400(1)a	Reinforcing Steel, Grade 40	kg	265,759.05	90.34	24,008,672.58
405(1)b2	Structural Concrete 27.58 Mpa, Class A 14days	cu.m	1,144.47	11,105.60	12,710,026.03
413(4)a	Expansion Joint	l.m.	142.00	3,466.46	492,237.32
SUB-TOTAL AMOUNT OF BID				Php 37,210,935.93	

<b>PART G</b>	<b>DRAINAGE &amp; SLOPE PROTECTION STRUCTURE</b>				
500(1)b3	Pipe Culverts RCPC 910 mm dia. (Class IV)	l.m.	1,640.00	6,475.15	10,619,246.00
SUB-TOTAL AMOUNT OF BID				Php 10,619,246.00	
<b>PART H</b>	<b>MISCELLENIOUS STRUCTURES</b>				
624(1)a3	Single Arm Post, with Street Light 175W LED, 10m	ea	150.00	104,969.73	15,745,459.50
SUB-TOTAL AMOUNT OF BID				Php 15,745,459.50	
<b>DIVISION III – PORTS AND HARBORS</b>					
<b>PART I</b>	<b>PROTECTIVE WORKS AND ACCESSORIES</b>				
1400(4)	Bollard with Accessories	set	15.00	145,343.67	2,180,155.05
1403(1)	Installation of Rubber Dock Fenders	set	15.00	1,377,565.00	20,663,475.00
SUB-TOTAL AMOUNT OF BID				Php 22,843,630.05	
<b>PART H</b>	<b>BULKHEADS</b>				
1501(1)	Rock Works, Class I Rock	tonne	3,794.04	7,316.66	27,759,700.71
SUB-TOTAL AMOUNT OF BID				Php 27,759,700.71	
<b>TOTAL AMOUNT OF BID</b>		<b>Two Hundred Ninety-Three Million Seven Hundred Fifty-Seven Thousand Nine Hundred Seventy-Two Pesos and 08/100.</b> <b>PHP 293,757,067.08</b>			

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