



Republic of the Philippines
Tourism Infrastructure & Enterprise Zone Authority


MANPOWER & EQUIPMENT

Project: **CONSTRUCTION OF THE MANGROVE FOREST TRAIL AND CONSERVATION CENTER**
Location: Arteche , Eastern Samar
Duration: 210

Minimum Required Manpower	Quantity
a. Project Manager	1
b. Project Engineer	1
c. Materials Engineer	1
d. Part-time Safety Officer	1
e. Certified First Aider	1
f. Project Foreman	1
g. Skilled Worker	10
h. Heiper/Laborer	20

Minimum Required Equipment	Quantity
a. Basic Construction Tools	1 lot
b. Truck Mounted Crane (45T, 246Hp)	1
c. Cargo Truck (10T, 270 HP)	1
d. Water Pump, 100 mm Suction Dia.	1
e. Dump Truck (10 cu.m.)	1
f. Backhoe (0.80 cu.m.)	1
g. Backhoe w/ Breaker (0.80 cu.m.)	1
h. Plate Compactor (5 hp)	1
i. Concrete Vibrator	1
j. Bar Cutter	1
k. Bar Bender	1
l. One Bagger Mixer	1
m. Welding Machine	1

Prepared By:


DOMINGO P. SANCHEZ

Estimator

Checked by:


ENGR. NOEL B. YAMBAO

Oic-Manager , PMD

Noted:


ENGR. JEFFREY V. MACALALAD

Manager , PEPD

BILL OF QUANTITIES

Project : **CONSTRUCTION OF THE MANGROVE FOREST TRAIL AND CONSERVATION CENTER**

Location : **Arteche , Eastern Samar**

ITEM NO	SCOPE OF WORK	QTY	UNIT	UNIT COST	AMOUNT
I.	GENERAL REQUIREMENTS				
	a. Temporary Barracks	1.00	lot		
	b. Health and Safety	1.00	lot		
	c. Project Signboard	1.00	set		
II.	MOBILIZATION/DEMOBILIZATION	1.00	ls		
III.	COFFERDAMMING				
	a. Structural Sheet Pile, Furnished (Rental)	37,584.00	kg		
	b. sheet pile, cofferdamming (driving and extracting)	1,353,024.00	kg		
	c. Dewatering	1.00	ls.		
IV.	CONSTRUCTION OF BOARDWALK				
	a. Structure Excavation (Manual, Common Soil)	759.54	m ³		
	b. Embnakment (Manual, From Structure Excavation)	510.27	m ³		
	c. Gravel Fill	37.76	m ³		
	d. Structural Concrete (Class A, 28 days, 3000psi)	421.60	m ³		
	e. Reinforcing Steel (Deformed, Grade 40)	56,329.77	kg.		
	f. Formworks	1,113.58	m ²		
	g. Lean Concrete (Class B, 28 days, 2500psi)	26.93	m ³		
	h. Painting Works (Masonry/Concrete)	3,429.65	m ²		
V.	CONSTRUCTION OF BOARDWALK WITH REST AREA				
	a. Structure Excavation (Manual, Common Soil)	43.20	m ³		
	b. Embnakment (Manual, From Structure Excavation)	38.74	m ³		
	c. Gravel Fill	2.16	m ³		
	d. Structural Concrete (Class A, 28 days, 3000psi)	34.15	m ³		
	e. Reinforcing Steel (Deformed, Grade 40)	4,513.21	kg		
	f. Formworks	128.00	m ²		
	g. Lean Concrete (Class B, 28 days, 2500psi)	1.40	m ³		
	h. Painting Works (Masonry/Concrete)	125.00	m ²		
VI.	CONSTRUCTION OF GAZEBO				
	a. Structure Excavation (Manual, Common Soil)	10.13	m ³		
	b. Embnakment (Manual, From Structure Excavation)	7.30	m ³		
	c. Gravel Fill	0.18	m ³		
	d. Structural Concrete (Class A, 28 days, 3000psi)	8.97	m ³		
	e. Reinforcing Steel (Deformed, Grade 40)	1,913.69	m ³		
	f. Formworks	75.00	m ²		
	g. Lean Concrete (Class B, 28 days, 2500psi)	1.00	m ³		
	h. Painting Works (Masonry/Concrete)	40.00	m ²		
	i. Bamboo Bench	1.00	ls.		
	j. Roof Framing (Wood)	250.00	bf		
	k. Wood Stone Coated Metal Finish Roofing	26.00	m ²		
	l. Wood Stone Coated Metal Finish Roll Cap	26.40	lm		
VII.	CONSTRUCTION OF FOOT BRIDGE	12.00	lm		

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ITEM NO	SCOPE OF WORK	QTY	UNIT	UNIT COST	AMOUNT
	a. Structure Excavation (Manual, Common Soil)	18.14	m ³		
	b. Embankment (Manual, From Structure Excavation)	13.50	m ³		
	c. Gravel Fill	1.00	m ³		
	d. Structural Concrete (Class A, 28 days, 3000psi)	16.40	m ³		
	e. Reinforcing Steel (Deformed, Grade 40)	1,248.00	m ³		
	f. Formworks	40.00	m ²		
	g. Lean Concrete (Class B, 28 days, 2500psi)	0.67	m ³		
	h. Painting Works (Masonry/Concrete)	86.70	m ²		
GRAND TOTAL		In Words: Pesos <hr/> <hr/> In Figures: Php <hr/> <hr/>			

Submitted By _____

Name of the Representative of the Bidder

Name of the Bidder

Position