

IV. **INITIAL ENVIRONMENTAL EXAMINATION (IEE)**
CHECKLIST FOR INFRASTRUCTURE PROJECTS

Enter the required information on the spaces provided or otherwise; check (✓) the appropriate boxes and circles

1. **General Information**

1.1 Project Title : CONCRETING OF MEMBULI FMR SECTION
 1.2 Project Location : BRGY. MEMBULI, SALAY, MISAMIS ORIENTAL

(complete address, *barangay/ street/sitio/ municipality/city, province*)
 1.3 Proponent : LGU-SALAY, MISAMIS ORIENTAL
 Contact Person : MRS. CORA FAITH V. CAUSON
 Address : SALAY, MISAMIS ORIENTAL
 Tel/Fax # : 72-08-35
 E-mail : lgu_salaymisor@yahoo.com

1.4 Project Ownership
 Type of Ownership :
 Single Proprietorship Partnership or Joint Venture
 Corporation Cooperatives
 Others LOCAL GOVERNMENT UNIT OF SALAY, MISAMIS ORIENTAL

2. **Project Description**

2.1 Project Components

2.1.1 Buildings, Storage Facilities and Other Structures

Project Components	Yes	No	Area
1. Parking Area		✓	
2. Road Networks	✓		18,000 sq.m.
3. Offices		✓	
3. Others, pls., Specify			N/A
Total Area			N/A

Use additional sheets if necessary

2.1.2 Minor Roads and Bridges

Description (Road or Bridge)	Length (km)	Material of Construction
UPGRADING OF MEMBULI	1.800 kms.	AGGREGATES, CEMENT, DEFORM BARS, DRB,
FMR SECTION		ASPALT SEALANT, PCCP, BOULDERS, STICK
		AND ASSORTED CWN

Use additional sheets if necessary

Bank stabilization: Left Bank: ____m Right Bank: ____m

Type: vegetative mechanical/riprap

Ro- Ro Terminal Infrastructure Facilities

Component	Area (sq. m)/ Capacity/ No.
Terminal structures	N/A
Terminal area utilities	N/A
Navigation aids equipment	N/A
Passenger terminal and office building	N/A
Gasoline station	N/A
causeway	N/A
RORO ramp berthing area	N/A
Others, specify	N/A

2.1.3 Water Supply, Irrigation or Flood Control Projects

Description/ Name	Number of Units	Dimension/Capacity (Indicate Unit Of Measures)
Diversion Structure (E.G., Dam, Weir, Etc.)	N/A	N/A
Diversion canal/s	N/A	N/A
Service canal/s	N/A	N/A
Canal structure/s	N/A	N/A
Head gate/s	N/A	N/A
Check gate/s	N/A	N/A

Description/ Name	Number of Units	Dimension/Capacity (Indicate Unit Of Measures)
Turnout	N/A	
Division box	N/A	
Off-takes	N/A	
End Check	N/A	

2.1.3.a Water Supply: Project Details

Community Water Demand : dry season m^3/sec rainy season m^3/sec
annual m^3/sec

Water Source
 surface water S/W Type : river (Name:) rainwater collector

 ground water G/W Type: well spring others:

Location of water source
N/A

(Sitio/Zone, Barangay, Municipality/City, Province, Region)

Water source flow: a) dry season flow: m^3/sec b) rainy season: m^3/sec

Percent & Flow of water source to be tapped:
a) dry season: % (m^3/sec) b) rainy season: % (m^3/sec) c) annual: %
(m^3/sec)

Location of communal water box/faucet area:

(If water box/faucet area is to be provided) (Lot Number, Street, Sitio/Zone, Barangay,
Municipality/City, Province, Region)

Communal box/faucet surface area: m^2 Volume : m^3 Distance of box from source: m

Pipe length from source to water box: m Pipe Material: GI pipes PVC
 bamboo

Overflow of Concrete Water Box: m (height) Target overflow: dry season m^3/sec ;
rainy season m^3/sec

2.1.3b Irrigation: Project Details

Type of Agri-Plantation: ricefield (Service Area: N/A has.)
 others: (Service Area: has.)

Irrigation Water Requirement: dry season N/A m^3/sec rainy season m^3/sec
 annual m^3/sec

2. Public Water Supply System	N/A		
3. Spring (Piped or Box)	N/A		
4. Deepwell (manual or electric)	N/A		

If the project is not tapping a public water supply system, what will be the main source of domestic water supply?

Water Source	Name of Water Body	Location	Distance from Site (km)	Mode of Dev't or Dist	Volume
1. Creek	N/A				
2. Spring					
3. Stream					
4. River					
5. Others					

- a) Impounding dam/reservoir with storage tank
- b) Spring box pumped to a reservoir and distributed by gravity?
- c) Others(specify) _____
- [] deep well with motor pump and overhead storage tank
- No. of wells: _____

Unit	Location	Depth(m)	Discharge(lps)
1. DW #1			
2.			
3.			
4.			
5.			

No. of overhead storage tank: _____

Storage capacity/tank (m³) N/A

- [] deep well with manual/hand pump
no. of wells _____
- [] rainwater collected in storage tanks
of tanks _____ Capacity/tank (cu.m.) _____
- [] rainwater collected in reservoir
of reservoirs _____ Capacity _____
- [] others, pls. specify _____

2.6 Power

Sources of Power Supply	Yes	No	Estimated Daily Kilowatt consumed:
Local Electric Utility	N/A		
Generator	N/A		
Others, please specify	N/A		

2.7 Drainage/Sewage/Sewerage System

2.8.1 Drainage Description : Open Canal
 Closed Underground Drainage
 Others, pls. specify _____

2.8.2 Primary Treatment

Separation of Solid/Liquid Waste: Yes No

2.10.2 WTF/sewerage System

Biological Treatment ___ No. of lagoons
 ___ No. of days retention period

___ Chemical Treatment: Enumeration of equipment used:

- a) _____ e) _____
- b) _____ f) _____
- c) _____ g) _____
- d) _____ h) _____

___ No. of days retention period.

2.8 Solid Waste Management

(Handling/Transport/Disposal/Treatment) _____ N/A
 Waste Disposal method : _____

- Waste segregation at source, re-use, and recycling
- Composting : _____ area of composting
- Utilization of receptacles, solid waste tanks for unrecyclables waste
- Collection _____ No. of utility vehicles/compact or utilized
 _____ Frequency of collection per week

2.9 Temporary Facilities:

Bunkhouse/admin/canteen/sanitary facilities Construct Lease
 Area: 18 m²

Staging/Motorpool Construct Lease
 Area: _____ m²

Solid Waste Disposal Facility Area: N/A m², located _____ m,
 N S E W of the site

2.10 Construction Equipment and Ancillary Facilities:

Transport vehicles: 1 (quantity)

Heavy equipment: 9 (quantity)

Generator Set : N/A (quantity); _____ horsepower or _____ kW

Fuel Tank : N/A (quantity); _____ liters (volume)

2.11 Construction Schedule

No.	ACTIVITY	TIMEFRAME
1	Plans/Design	25
2	Permits/Clearances	N/A
3	Site Preparation & Clearing	16
4	Excavation	49
5	Civil Works	270
6	Finishing/Site Cleaning	N/A
7	Installation of Equipment	-
8	Commissioning & Start-up Operation	-

(Use additional sheet if necessary. Include civil works undertaken as part of the project, e.g, construction of office for operation, administration, canteen, and other amenities.)

How long will the pre-construction/construction period take? 360 CALENDAR DAYS

Water Source: surface water S/W Type : river (Name: N/A)
 other: _____
 ground water G/W Type: well spring
 other: N/A

Location of water source :

 (Street, Sitio/Zone, Barangay, Municipality/City, Province, Region)

Water source flow: a) dry season flow: _____ m³/sec b) rainy season: _____ m³/sec

Percent & Flow of water source to be tapped:

a) dry season: ___% (____ m³/sec) b) rainy season: ___% (____ m³/sec)

c) annual: ___% (____ m³/sec)

IS main water intake flow: dry season _____ m³/sec rainy season _____ m³/sec

Irrigation canals: a) Main Canal: ___m (L); ___m (bottom W); ___m (bottom W); b) Laterals : ___m (total L)

Irrigation Dikes: Left: ___m (height); ___m (bottom width) Right: ___m (height); ___m (bottom width)

Distribution Pipeline: _____ meters (L)

Pipeline: GI Pipes PVC Bamboo

2.2 Project Description/Objectives:

CONCRETING OF 1.800 FMR SECTION/ TO PROVIDE ALL WEATHER ACCESS ROAD

2.3 Project Cost

Total Project Cost: [] 17,509,185.35

Mode of Project Financing:

Self-Financed Bank Loan
 Gov't. Financing Others: 80% Loan Proceeds
 10% LGU
 10% GOP

2.4 Land Ownership

Total Land Area (sq. meters or has.): 18,000 sq.m.

General Land Classification: Public Land A & D

If public land, what classification:

Ancestral Land Reservation Others _____

2.5 Utilities and Infrastructures

Sources of water Supply	Yes	No	Estimated Daily Consumption (cu.m.)
1. Local NAWASA	N/A		

Attach panoramic view of the project site and its immediate vicinity

3. Description of the Existing Environment

3.1 Physical	:	Land Use/ Zone: <input checked="" type="checkbox"/> agricultural <input type="checkbox"/> forestland <input type="checkbox"/> brush/scrubland <input type="checkbox"/> pastureland <input type="checkbox"/> industrial <input type="checkbox"/> commercial <input type="checkbox"/> residential <input type="checkbox"/> open spaces <input type="checkbox"/> tourism <input type="checkbox"/> institutional <input type="checkbox"/> others _____
	:	Access Road <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, distance to the site <u>3.900</u> km.
	:	Existing structures or developments around the project site Please list them in the space provided: <u>Basketball Court</u>
	:	Slope: <input type="checkbox"/> flat (0-3%) <input checked="" type="checkbox"/> gently sloping (3-8%) <input type="checkbox"/> rolling (8-18%) <input type="checkbox"/> steep (>18%)
	:	Soil type of the area: <input type="checkbox"/> sandy soil <input type="checkbox"/> clayey soil <input checked="" type="checkbox"/> sandy loam soil
	:	General Elevation: <input type="checkbox"/> coastal <input type="checkbox"/> lowland <input checked="" type="checkbox"/> upland
	:	Climate: <input checked="" type="checkbox"/> Type 1 (pronounced dry & wet) <input type="checkbox"/> Type 2 (no dry, very pronounced wet) <input type="checkbox"/> Type 3 (no pronounced dry & wet) <input type="checkbox"/> Type 4 (evenly distributed rain throughout year)
	:	Name/s of nearby water body/ies: <p style="text-align: center;">N/A</p> <hr/>

		Record of Natural Disaster	
		Disasters	Frequency/Estimated Dates of Occurrence
		<input type="checkbox"/> Flooding	
		<input type="checkbox"/> Earthquake	
		<input type="checkbox"/> Landslides or erosion : specify causes of erosion or landslide Heavy rains <u>N/A</u> Unstable slopes _____ Others, _____	
		<input type="checkbox"/> Volcanic eruption	
		<input type="checkbox"/> Erosion	
		<input type="checkbox"/> Others:	
3.2	Biological	: <i>Description of biological environment likely to be affected:</i>	
		Forest cover: <input type="checkbox"/> primary forest (virgin) <input type="checkbox"/> secondary forest (previously logged & reforested) <input type="checkbox"/> denuded	
		Observed illegal forest land uses: <input type="checkbox"/> illegal logging <input type="checkbox"/> slash & burn <input type="checkbox"/> others _____	
		Dominant forest species (common names): <u>BIRDS AND WILD ANIMALS</u>	
		Common freshwater species : <u>N/A</u>	
		Common marine species : <u>N/A</u>	
		Endangered Wildlife: <u>WILD BORES. ANIMALS AND BIRDS</u>	
		Endangered aquatic species: _____	
3.3	Social	: <input type="checkbox"/> Presence of IP Community <input checked="" type="checkbox"/> Non- IP Community No. Project Affected Persons: <u>32</u>	
		No. Project Affected Families: <u>4</u>	
		%Men: <u>55%</u> % Women: <u>45%</u>	
		: Land ownership of project area : <u>LGU-SALAY, MISAMIS ORIENTAL</u>	
		Crops within the project area: <u>BANANA, CORN, COCONUT AND ROOTCROPS</u>	
		: No of households to be resettled : <u>n/a</u>	
		Location and area of resettlement site : <u>n/a</u>	
		: Source(s) of livelihood : <input checked="" type="checkbox"/> farming <input type="checkbox"/> fishing <input checked="" type="checkbox"/> sari-sari store <input checked="" type="checkbox"/> backyard poultry and piggery <input checked="" type="checkbox"/> vending / buy and sell <input type="checkbox"/> others, pls. specify <u>LABOR</u>	
		: Existing social infrastructures in the barangay: <input checked="" type="checkbox"/> schools <input checked="" type="checkbox"/> communication (e.g.radio, TV, mail, newspaper) <input checked="" type="checkbox"/> health centers/clinics <input checked="" type="checkbox"/> churches/chapel <input type="checkbox"/> hospitals <input type="checkbox"/> roads <input type="checkbox"/> transportation <input type="checkbox"/> others, <u>Daycare Center</u>	

4. Predicted and Assessed Impacts and Proposed Enhancement / Mitigation Measures


SWORN STATEMENT OF ACCOUNTABILITY OF THE PROPONENT

This is to certify that all the information and commitments in this Initial Environmental Examination (IEE) Checklist REPORT for the UPGRADING OF MEMBULI FARM TO MARKET ROAD SECTION are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the project was undertaken in accordance with the dictates of professional and reasonable judgment. Should I/we learn of any information which would make this IEE checklist REPORT inaccurate, I shall immediately bring the said information to the attention of DENR-EMB.

I hereby certify that no DENR-EMB personnel was directly involved in the preparation of this UPGRADING OF MEMBULI FARM TO MARKET ROAD SECTION REPORT other than to provide procedural and technical advice or guidance.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state materials information in this IEE checklist REPORT.

In Witness whereof, I hereby set my hand this 16th day of June 2011 at Salay, Misamis Oriental.


ROMEO L. GUE
NAME OF PROPONENT HEAD
(Position) Municipal Mayor
Company) LGU-Salay

SUBSCRIBED AND SWORN TO before me this 16th day of June 2011
2011. Affiant exhibiting his/her Community Tax Certificate No. 23956301
Issued at Salay Mis OR on 1-20-11

Doc. No. 227
Page No. 46
Book No. ✓
Series of 2011


AMANDO JOERECITO B. MAGAT JR., CPA
Notary Public - Roll No. 46702
Commission expires on Dec. 31, 2011
IBP No. 799068 12-23-10 CDO
PTR No. 217036 12-17-10 CDO
MCLE Compliance No. II-0005863 09-01-07
MCLE Compliance No. III-0005358 10-16-09
Apolinar Velez-Toribio Chavez Srs.
Cagayan de Oro Ci:y