



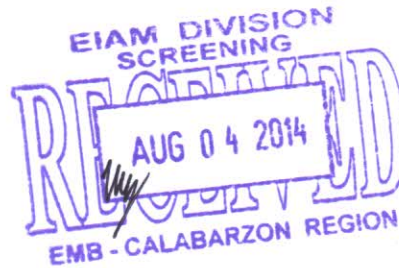
REPUBLIC OF THE PHILIPPINES
PROVINCE OF QUEZON
MUNICIPALITY OF CANDELARIA



August 4, 2014

HON. CARLOS J. MAGNO

Regional Director
Environmental Management Bureau
DENR Region IV-CALABARZON
1515 L & S Building, Roxas Boulevard
Ermita, Manila



Dear Director Magno:

The Municipal Government of Candelaria, Quezon is one of the pilot municipalities to participate in the implementation of the Philippine Rural Development Project (PRDP) of the Department of Agriculture. PRDP is a World Bank funded project with complementation from the National Government and the LGU beneficiary which is focused on expanding market access and improving competitiveness of the agricultural sector towards the increase in rural income.

In line with this, the Improvement of Sta. Catalina Norte- Kinatihan I- Kinatihan II- San Isidro- Sta. Catalina Sur Farm to Market Roads in Candelaria, Quezon is the initial sub-project of the PRDP to be implemented in order to address the problem on road access for the transportation of farm produce.

In pursuant to the provisions of DENR Administrative Order No. 2003-30, may I respectfully submit the Initial Environmental Examination (IEE) Checklist Report of the said sub-project of the PRDP in our municipality.

Also attached herewith are other pertinent documents in relation to this ECC application (i.e. Zoning Certification, Accountability Statement of Proponent, duly accomplished PEMAPS, detailed engineering design and photos of the project site) for you evaluation and perusal.

Thank you very much and More power!

Truly Yours,

ATTY. FERDINAND R. MALIWANAG
Municipal Mayor
Candelaria, Quezon

Ground Floor, West Wing, Candelaria Municipal Hall
Maharlika Highway, Candelaria 4323, Quezon, Philippines
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✉ candelaria_mayor@yahoo.com

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Annex 2 - J

INITIAL ENVIRONMENTAL EXAMINATION (IEE) CHECKLIST REPORT FORM

for

ROAD AND BRIDGE PROJECTS

This IEE Checklist Report Form shall be used for proposed **ROAD AND BRIDGE PROJECTS** required an IEE Report / IEE Checklist for ECC Application.

This IEE Checklist Report Form shall be submitted along with the following documents:

- Proof of Compatibility with the existing Land Use Plan
- Proof of Authority over the Project Site
- Accountability Statements of Proponent (see attached form) and the Preparer (if any, following Annexes 2-22 of Revised Procedural Manual for DAO 2003-30)
- Photographs or plates/vicinity map of the project site showing impact areas and affected areas and communities
- Duly Accomplished Project Environmental Monitoring & Audit Prioritization Scheme (PEMAPS) Questionnaire (see Annex 2-7d of Revised Procedural Manual for DAO 2003-30)
(No other documents shall be required as pre-requisite to ECC applications per DENR MC 2010-14.)

Read the questions carefully and write the required information on the spaces provided or otherwise check (✓) the appropriate boxes ☐. Boxes with check marks ☒ are mandatory requirements. Use additional sheets if necessary and indicate this in the appropriate space.

Project proponents are strongly **discouraged** from engaging the services of consultants/facilitators/preparers to accomplish/fill-up the IEE Checklist Report Form. The Report Forms have been designed to be user-friendly.

Furthermore, the EMB Regional Office is required to complete the processing of an ECC application using the IEE Checklist Report within twenty (20) working days upon receipt of duly-accomplished forms with complete attachments.

Misleading or erroneous answers are grounds for legal action and/or denial of ECC issuance.

PROJECT FACT SHEET

Name of the Project	Improvement of Sta. Catalina Norte, Kinatihan I, Kinatihan II, San Isidro and Sta. Catalina Sur		
Proponent Name	Local Government Unit of Candelaria, Quezon		
Proponent Address	Candelaria, Quezon		
Proponent Means of Contact	Name: Atty. Ferdinand R. Maliwanag	Designation: Municipal Mayor	RECEIVED EMB DIVISION SCREENING AUG 04 2014 EMB - CALABARZON REGION
	Landline No. 042-585-4390	Fax No. 042-585-3928	
	Mobile No. --	Email:	

I. PROJECT DESCRIPTION

Please check project type and indicate size			
✓	Project Type	Project Size	Project Size Parameter
	Bridges and viaducts, new construction		Length
✓	Roads, new construction, widening (including RO-RO facilities)	11,651.77 meters	length with no critical slope, OR length with critical slope
	Elevated roads, flyover/cloverleaf/ interchanges		
	Tunnels and sub-grade roads and railways		Length
	Pedestrian passages		

Other Description Details:

Construction/Improvement of Farm to Market roads in Barangays Sta. Catalina Norte, Kinatihan I, Kinatihan II, San Isidro and Sta. Catalina Sur as initial sub-project of the Philippine Rural Development Project (PRDP) in the municipality of Candelaria, Quezon.

I.1 PROJECT LOCATION AND AREA:

Street/Sitio/Barangay Sta. Catalina Norte, Kinatihan I, Kinatihan II, San Isidro, Sta. Catalina Sur	Zone/Classification (i.e., industrial, residential) Agricultural	
City/Municipality Candelaria	Province Quezon	Region IV-A
Total Project Land Area 104,865.93 square meters	Total Building Footprint Area 104,865.93 square meters	

See attached vicinity map/s and photographs of the project site and site development/layout plan.

Geographic coordinates of the project area (Preferably use PRS 92 datum; otherwise, specify datum used).

Perimeter/Boundary points (based on OCT/TCT/etc.)	Longitude	Latitude

I.2 PROJECT COMPONENTS

Facilities	No. of Units	Area (sq/M)/ Capacity	Specifications/Description/ Remarks
1. Road	11,651.77 m.	46,607.08 sq.m.	Concrete Road
2. Intersections	4 units		
3. Bridge/s	--		
4. Access roads/Ramp	--		
5. Drainage facilities (i.e. Reinforced Concrete Box Culverts (RCBC); Reinforced Concrete Pipe Culverts (RCPC), others)	24 LM		Provide 3 lines of 8LM at 0.90m/RCPC
6. Associated facilities (i.e. Guardrails, Traffic signs, etc.)			
7. Solid waste management facility			
8. Others, specify Grouted riprap	2,940 LM		Provide riprap both sides

Use additional sheets, if necessary

I.3 UTILITIES/REQUIREMENTS (Operation Phase): n/a

Utilities	Source	Estimated Demand/Consumption
Power/Electricity (Total)		KWh
Power/Electricity (From Renewable Energy Sources)		KWh
Water (Total) (Fill-up table below if water is not obtained from the local water utility)		m ³ /day
Water (Rainwater Collection System)		m ³ /day

Water Source

☐ ground water ☐ well ☐ spring ☐ others: _____

☐ surface water ☐ river ☐ lake ☐ others: _____

Location of water source

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

Energy/Water Efficiency

Utilities	Estimated Savings	Proposed Efficiency/Conservation Measures
Power/Electricity	n/a KWh	
Water	n/a m ³ /day	

I.3 MANPOWER**a. Construction Phase**

Manpower Requirement	Expertise/Skills	Total
Foreman		2
Carpenter		6
Mason		12
Labor (unskilled)		60
Concrete vibrator operator		1
Concrete screeder operator		2
Chainsaw operator		3
Backhoe operator		1
Backhoe w/ pavement breaker operator		1
Bulldozer operator		1
Payload operator		1
Road grader operator		1
Road roller operator		2
Water truck operator		1
Dump truck operator		4
Safety officer		1
One bagger concrete mixer operator		2

b. Operation Phase

Manpower Requirement	Expertise/Skills	Total
n/a		

I.4 INDICATIVE PROJECT COSTProject Cost (PhP): **P 99,987,710.27**

II. ENVIRONMENTAL IMPACT AND MANAGEMENT PLAN

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/Implementation	Cost of Mitigation/Monitoring
LAND				
<input checked="" type="checkbox"/> Consistency with land use	Current land use w/in 1km radius (as per zoning ordinance): <input type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural/ Recreational <input type="checkbox"/> Protected Areas <input type="checkbox"/> Others, specify _____ Actual land uses w/in 1km radius: <input type="checkbox"/> Residential <input type="checkbox"/> Commercial/ Institutional <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural/ Recreational <input type="checkbox"/> Protected Areas <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> See attached proof of compatibility with land use		
<input type="checkbox"/> Disturbance to wildlife due to vegetation clearing	Existing vegetation in the area: <input type="checkbox"/> Forestland <input type="checkbox"/> Marshland <input type="checkbox"/> Grassland <input type="checkbox"/> Mangrove <input type="checkbox"/> Wetland <input type="checkbox"/> Others, specify <u>Rice Field</u>	<input checked="" type="checkbox"/> Comply with conditions of DENR/LGU SLUP, Tree Cutting Permit, ROW, PCA Permit <input checked="" type="checkbox"/> Limit land clearing as much as possible <input checked="" type="checkbox"/> Provide temporary fencing for vegetation that will be retained <input checked="" type="checkbox"/> Promote restoration of damaged or destroyed vegetation where possible (e.g., tree planting)	<input checked="" type="checkbox"/> Annual inspection of area replanted/ re-vegetated	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<input type="checkbox"/> Change in surface landform/ topography/ terrain/slope <input type="checkbox"/> Soil Erosion	Slope: <input checked="" type="checkbox"/> flat (0-3%) <input type="checkbox"/> gently sloping to rolling (3-18%) <input type="checkbox"/> steep (>18%)	<input type="checkbox"/> Provide erosion control and slope protection measures <input type="checkbox"/> Designate a Spoils Storage Area, with topsoil set aside for later use and allow maximum re-use of spoils <input type="checkbox"/> Construct during dry season <input type="checkbox"/> Stabilize embankment with grasses or other soil cover <input type="checkbox"/> Others, specify _____ <input type="checkbox"/> Comply with the DENR Administrative Order No. 2003-30 and DENR Administrative Order No. 2000-28, Implementing Guidelines on Engineering Geological and Geo-hazard Assessment (EGGA).	<input type="checkbox"/> Regular inspection of slope protection measures in erosion-prone areas <input type="checkbox"/> Regular inspection for new eroded areas near the site <input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Slope/ Erosion Control Cost: _____ <input type="checkbox"/> Others, specify _____
<input checked="" type="checkbox"/> Soil/Land contamination due to improper solid waste disposal	Is the project site located in an area identified by MGB/ PAG-ASA/ PHIVOLCS as hazard prone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Implement Ecological Solid Waste Management Plan (ESWMP) <input type="checkbox"/> Set up temporary fence around the construction area <input checked="" type="checkbox"/> Implement re-use and recycling of waste materials <input checked="" type="checkbox"/> Implement proper segregation, collection and disposal of domestic wastes in designated areas <input type="checkbox"/> Implement proper collection, labeling and storage of hazardous waste <input checked="" type="checkbox"/> Provide receptacles / bins for solid wastes	<input checked="" type="checkbox"/> Daily inspection of waste/recycling bins for segregation <input checked="" type="checkbox"/> Daily inspection for presence of mixed garbage in the facility <input checked="" type="checkbox"/> Weekly inspection of waste accumulated <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<input type="checkbox"/> Encroachment into protected areas or ecologically-sensitive areas	Is the project area near protected areas or ecologically-sensitive areas? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Obtain appropriate permits/clearances from concerned agencies <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular coordination with concerned agencies	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<input type="checkbox"/> Impairment of visual aesthetics <input type="checkbox"/> Devaluation of land values	Presence of visually significant landforms/landscape/structures? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Implement landscaping and other beautification measures <input type="checkbox"/> Provide adequate buffer <input type="checkbox"/> Compensate adjacent property owners <input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Regular inspection of landscaping and other beautification activities <input type="checkbox"/> Regular monitoring of buffer zones <input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints from adjacent property owners	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
WATER				
<input type="checkbox"/> Increased siltation due to project activities <input type="checkbox"/> Water quality degradation <input type="checkbox"/> Others, specify _____	Specify nearest water body: River Distance to nearest water body: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km If nearest water body is fresh water, specify classification:	<input checked="" type="checkbox"/> Set up proper and adequate sanitary facilities <input checked="" type="checkbox"/> Strictly require the contractor and its workers to observe proper waste disposal and proper sanitation <input checked="" type="checkbox"/> Strictly observe proper waste handling and disposal <input type="checkbox"/> Set up silt trap(Gabions, Fascines)/settling ponds to	Regular (ocular) inspection of: <input type="checkbox"/> Drainage / canal systems <input type="checkbox"/> Sanitation facilities Regular (ocular) inspection of water body for: <input type="checkbox"/> Turbidity and/or silted condition <input type="checkbox"/> Floating wastes or debris	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
	<input type="checkbox"/> AA <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D If nearest water body is coastal or marine water, specify classification: <input type="checkbox"/> SA <input type="checkbox"/> SB <input type="checkbox"/> SC <input type="checkbox"/> SD Current Water Use: <input type="checkbox"/> Fishery <input type="checkbox"/> Tourist Zone / Park <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> minimize downstream siltation <input type="checkbox"/> Others, specify _____		
	Distance of project area to the nearest well used: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km Use of the nearest well: <input checked="" type="checkbox"/> Drinking/Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Size of population using water source: <input type="checkbox"/> Competition in water use <input type="checkbox"/> Depletion of water	<input type="checkbox"/> Implement rainwater harvesting and similar measures as an alternative source of water	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/Implementation	Cost of Mitigation/Monitoring
resources	<input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000 persons <input checked="" type="checkbox"/> >5,000 persons Available/nearest water source.	<input checked="" type="checkbox"/> Observe water conservation measures <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular coordination with concerned agencies <input checked="" type="checkbox"/> Regular monitoring for occurrences of water shortages <input type="checkbox"/> Others, specify _____	
<input type="checkbox"/> Increased occurrence of flooding	Is the project site located in an area identified by MGB/PAG-ASA as flood prone? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Use appropriate design for project facilities <input checked="" type="checkbox"/> Implement appropriate drainage system <input type="checkbox"/> Regularly remove debris and other materials that may obstruct water flow <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with concerned agencies <input checked="" type="checkbox"/> Regular monitoring for increased frequency of flooding <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Cost integrated in the construction/operation cost
AIR / NOISE				
Air quality degradation	Distance to nearest community: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km	<input checked="" type="checkbox"/> Properly operate and maintain all emission sources (e.g. vehicles, generator, etc) <input type="checkbox"/> Install, when applicable, the appropriate air pollution control device/s <input type="checkbox"/> Strictly enforce good housekeeping practices <input type="checkbox"/> Control vehicle speed to lessen suspension of road	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints Regular (ocular) inspection of: <input type="checkbox"/> Absence of white or black smoke from vehicles, generator, etc. <input type="checkbox"/> Presence of truck	<input checked="" type="checkbox"/> Cost integrated in the construction/operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/Implementation	Cost of Mitigation/Monitoring
<input type="checkbox"/> Nuisance due to noise generation	Distance to nearest community: <input checked="" type="checkbox"/> 0 to less than 0.5 km <input type="checkbox"/> 0.5 to 1 km <input type="checkbox"/> More than 1 km	<input checked="" type="checkbox"/> Properly operate and maintain all noise sources (e.g., vehicles, generator, etc.) <input type="checkbox"/> Install, when applicable, the appropriate noise control device/s (e.g., mufflers, silencer, sound barriers, etc.) <input checked="" type="checkbox"/> Implement appropriate operating hours <input type="checkbox"/> Provide adequate buffer and/or planting of trees <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input type="checkbox"/> Regular monitoring of buffer zones	<input checked="" type="checkbox"/> Cost integrated in the construction/operation cost
PEOPLE				
<input type="checkbox"/> Displacement of residents in the project site and within its vicinity <input type="checkbox"/> Displacement of Indigenous Peoples <input type="checkbox"/> Enhanced employment and/or livelihood opportunities	Size of population of host barangay: <input type="checkbox"/> ≤ 1,000 persons <input type="checkbox"/> >1,000 and ≤ 5,000 persons <input checked="" type="checkbox"/> >5,000 persons Classification of host barangay: <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> Provide relocation/disturbance compensation packages <input checked="" type="checkbox"/> Prioritize local residents for employment <input checked="" type="checkbox"/> Promptly pay local taxes and other financial obligations <input checked="" type="checkbox"/> Regularly coordinate with LGU <input type="checkbox"/> Conduct prior consultation and coordination to minimize disruption of daily domestic	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Cost integrated in the construction/operation cost

Possible Environmental/Social Impacts	Baseline Environment	Preventive/Mitigating Measures	Monitoring Parameters/ Implementation	Cost of Mitigation/ Monitoring
<input type="checkbox"/> Reduced employment and/or livelihood opportunities <input type="checkbox"/> Increased revenues for LGU <input type="checkbox"/> Disruption/ Competition in delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Enhanced delivery of public services (e.g., education, peace and order, etc.) <input type="checkbox"/> Increase in traffic volume and worsening of traffic flow <input type="checkbox"/> Impacts on community health and safety <input type="checkbox"/> Others, specify _____	Available services within/near the host barangay: <input checked="" type="checkbox"/> Schools (e.g., elementary, high school, college) <input checked="" type="checkbox"/> Health facilities (e.g., clinics, hospitals, etc.) <input checked="" type="checkbox"/> Peace and order (e.g., police outpost, Brgy. Tanod, etc.) <input type="checkbox"/> Recreation and sports facilities <input type="checkbox"/> Others, specify _____	activities and to ensure respect for IP rights and cultural practices <input type="checkbox"/> Ensure participation of IPs in consultations and dialogues <input type="checkbox"/> Provide appropriate traffic/warning signs, lighting, etc. <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Regular monitoring for presence/absence of complaints <input checked="" type="checkbox"/> Regular coordination with LGU <input checked="" type="checkbox"/> Regular submission of reports to concerned agency <input type="checkbox"/> Others, specify _____	<input checked="" type="checkbox"/> Cost integrated in the construction/ operation cost
<input type="checkbox"/> Regularly coordinate with LGU <input type="checkbox"/> Provide appropriate warning signs, lighting and barricades, whenever practicable <input checked="" type="checkbox"/> Observe proper housekeeping <input type="checkbox"/> Provide on-site medical services for any emergency. <input type="checkbox"/> Participate in public awareness programs on health and safety <input type="checkbox"/> Implement appropriate safety programs for both community and workers <input type="checkbox"/> Others, specify _____				

III. ABANDONMENT / DECOMMISSIONING / REHABILITATION POLICIES AND GENERIC GUIDELINES (if Applicable)

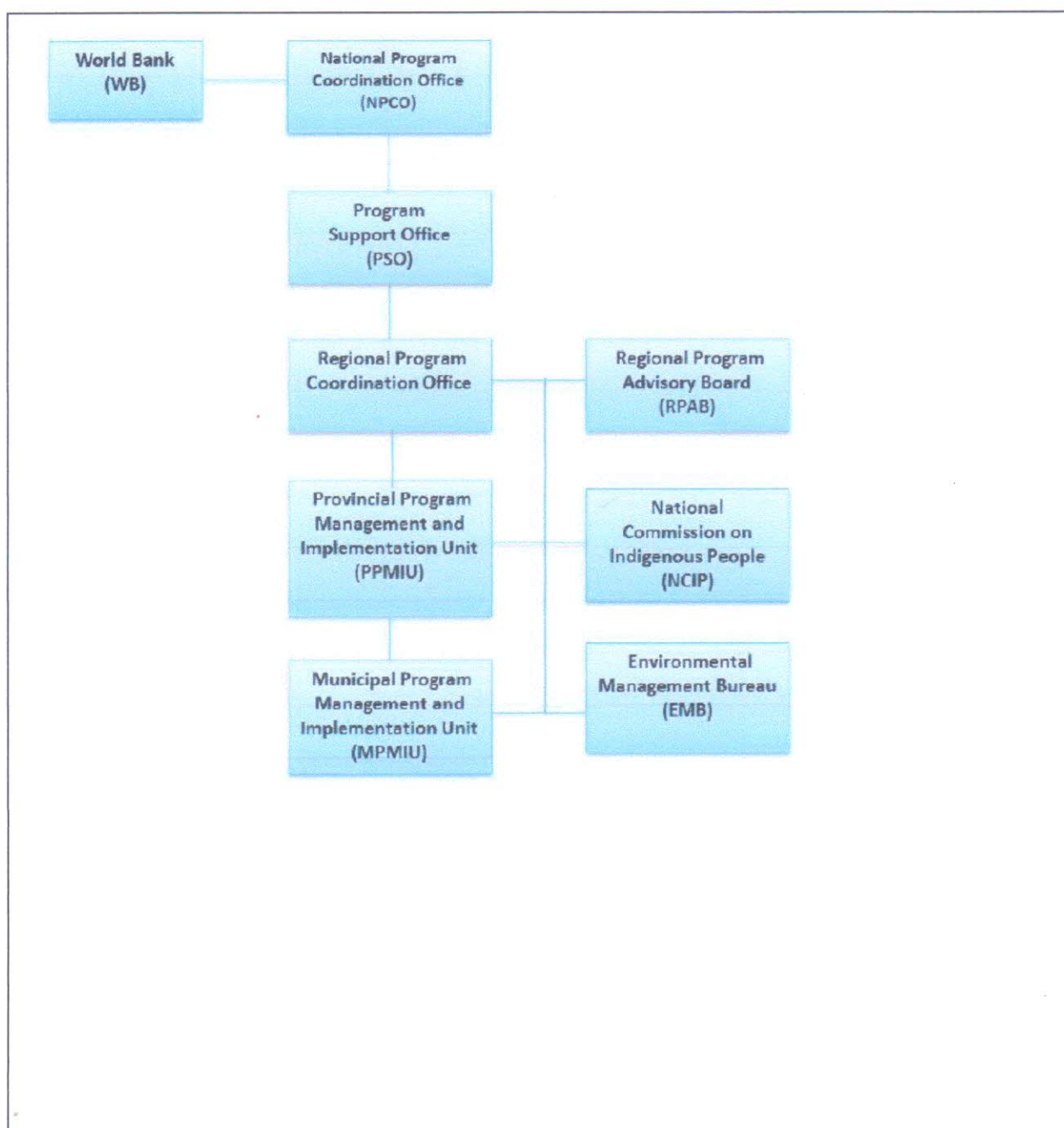
Project Life or Service: _____ years

Provide description of the Abandonment activities, such as dismantling and waste disposal.

Abandonment is not applicable in this type of project.

IV. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION

Organization Chart:



Attach design/plan/alignment of project (with dimensions and descriptions)

Please see attached documents.

7/27/2014 8:11:34 am

Andelaria

PROPOSED FMR

EXISTING INFRA/
BRGY. Rd

NATIONAL HIGHWAY

Image Landsat
© 2014 Google

Image © 2014 TerraMetrics
Image © 2014 DigitalGlobe

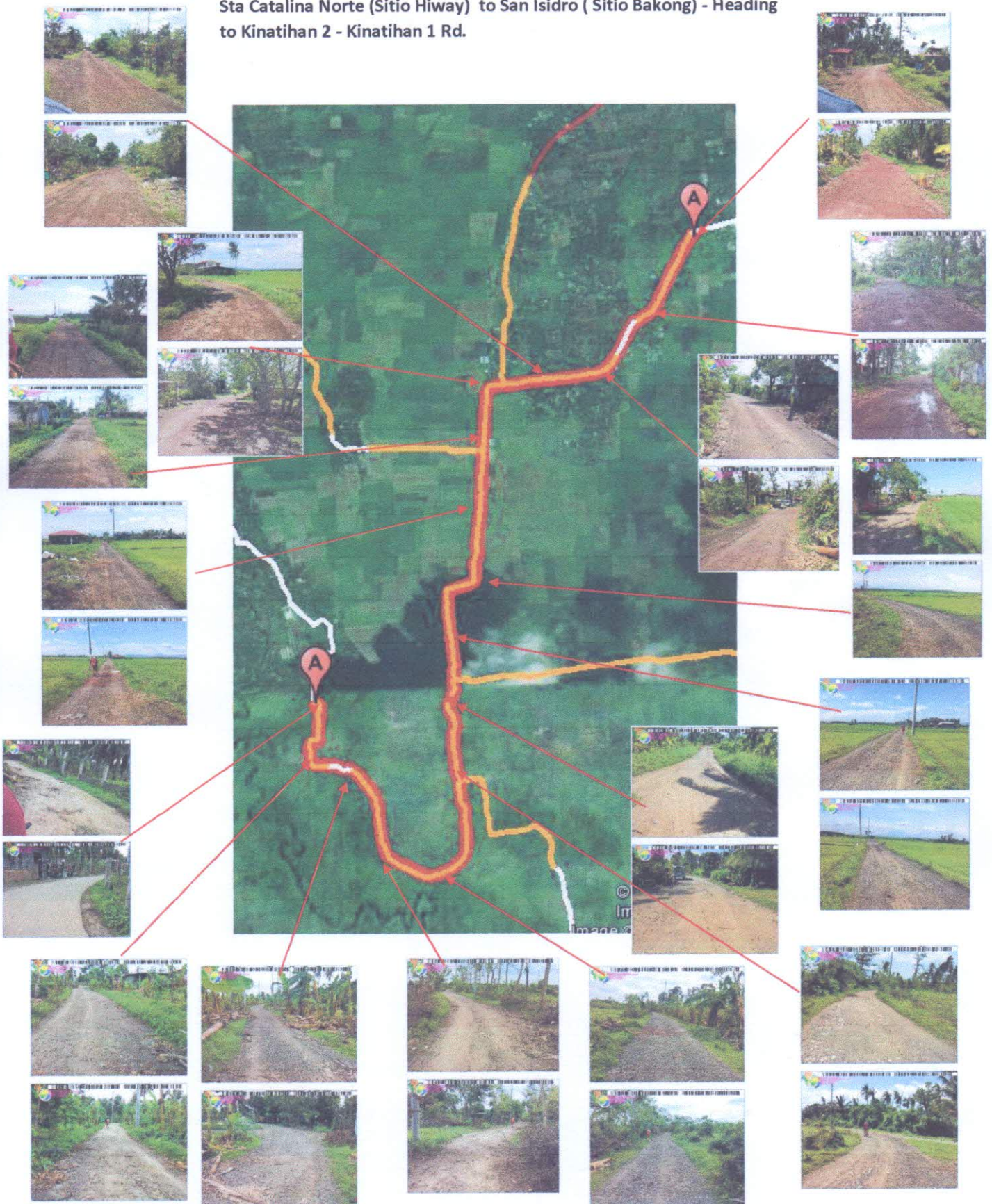
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Segment A

Sta Catalina Norte (Sitio Hiway) to San Isidro (Sitio Bakong) - Heading to Kinatihan 2 - Kinatihan 1 Rd.



Segment B

Sta Catalina Norte (Sitio CYO-Sitio Mahal na Señor)- Pahinga Norte Rd..



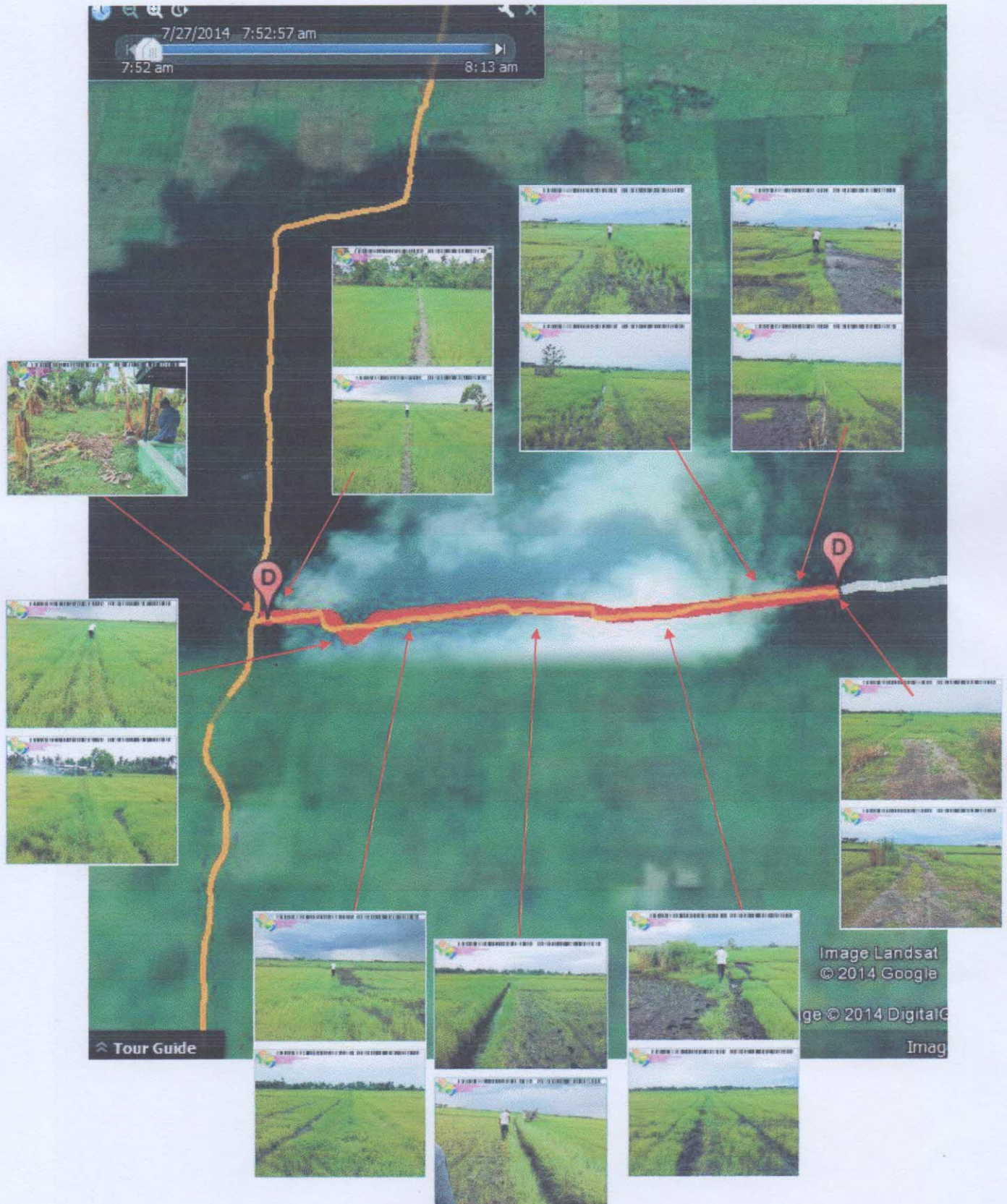
Segment C

Kinatihan 1 (Iskul)-Kinatihan 2 (Pook) - Sta Catalina Norte (Intersection) Rd.



Segment D

San Isidro (Bungahan)-Sta Catalina Sur (Dita) Rd.



Segment E

San Isidro (Bungahan) - San Isidro (Rasac) Rd.



