TECHNICAL SCOPING CHECKLIST
EIA REPORT

Bagtingon Small Reservoir Irrigation Project (BSRIP)

Barangay Bagtingon, Buenavista, Marinduque

11.1 Technical scoping checklist

ECC APPLICATION SCREENING FORM FOR HYDROPOWER/DAM PROJECTS
(Required an EIS per existing guidelines)

Control No: _____
☐ 1st ☐2nd ☐3rd ___ th Screening

Date Submitted for Screening: _____
Form of Submission: ___ Hard ___ Digital

Project Title: **BAGTINGON SMALL RESERVOIR IRRIGATION PROJECT**
Project Location: **Barangay Bagtingon, Buenivista, Marinduque Province**
Project Proponent **NATIONAL IRRIGATION ADMINISTRATION - MIMAROPA**
Contact Person: **Engr. GERARDO R. PEREZ**
Address: **Bayanan II, Calapan City, Oriental Mindoro**
Contact No: **09178495267; Landline: (043) 288-7267**
Email: mimaropa@nia.gov.ph

EIS Consultant: **Geographic Innovations for Development Solutions, Inc. (GRIDs)**
Contact Person: **MILBEN A. BRAGAIS, EnP / President**
Address: 4th Fl., Hernandez Bldg, Grove, 4030 Los Banos, Philippines
Contact No: (049) 545-1576 / grids.inc.ph@gmail.com

Project Classification & Type: ***Irrigation with DAM Project***
Project Classification Code *(Refer to RPM for DAO 2003-30 and EMB MC 2014-005)*: ***Category B. Non-ECP 3.1.***
Project Size based on Classification: ***Item 3.1.1 Dams (including those Irrigation, Flood Control Project, Water Sources, and Hydropower projects) including run-of-river types); >5 Hectares but <25 Hectares OR > 5 million m^3 but <20 million m^3.***

Checklist of Documentary Requirements

	Acceptable?		Screening Officers' Remarks
	Yes	**No**	
• Environmental Impact Statement (EIS)[1]			
• Proof of Compatibility with the existing Land Use Plan (Zoning Certification or Certification from the Municipality) Remarks: To follow			
• Proof of Authority over the Project Site - Equal documentation relative to the tenurial instrument - PAMB Clearance/Resolution - NWRB			
• Accountability Statements of Preparers & Proponent (see Annexes 2-21 & 2-22 of Revised Procedural Manual for DAO 2003-30)			
• Photographs or plates of the project site, impact areas and affected areas and communities - Geotagged photographs or plates of the project site, 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)			

ACTION TAKEN: (Please check to indicate the corresponding action taken)

☐ Document accepted; please submit ___ copies
EIARC Needed? ( ) Yes ( ) No Expertise Needed: _____
Processing Fee: PhP _____ *(Pay at EMB Cashier)* Review Fund: Based on WFP *(Pay to the duly authorized 3rd Party Review Fund Manager)*

☐ Document not accepted

O.R. # _____
Date _____

[1] *Please refer to attached checklist of EIS Contents*

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NOTED BY:

John Junico B. Udal
Screening Officer

Engr. Buena Fe A. Rioflorido
Chief, Clearance and Permitting Division

EnP, Nicole Yuri Dorado
Chief, Environmental Impact Assessment Section

EMB Regional Office
Screening Office

Date: **01 September 2023**

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Checklist of EIS Contents

Executive Summary (maximum of 5 pages)

Contents	Page #	Acceptable?	REMARKS
Project Fact Sheet PD Summary (1 page)	i		
Process Documentation of the conduct of EIA (1 page) *(EIA Team, EIA Study Schedule & Area, EIA Methodology, Public Participation)*	i-iv		
Summary of Baseline Characterization Key Environmental Impacts and Management & Monitoring Plan and EGF Commitments.	v		

I. Project Description

Items to be Described	Specific Data Requirement	Page #	Acceptable?	REMARKS
1) Project Location and Area	a) Map showing sitio, barangay, municipality, province, region boundaries, vicinity, proposed buffers surrounding the area and Primary & secondary impact areas	1-2		
	b) Geographic coordinates (shape file data) of project area (use WGS 84 datum - GPS setting)	1-3		
	c) Rationale for selection primary & secondary impact areas	1-12		
	d) Discuss the accessibility of the project site/area	1-9		
	e) Proximity of the project to the nearest Protected Areas (PAs) and/or Ramsar Site/s. - Including the proximity to coastal resources like corals, seagrasses, among others	1-4		
2) Project Rationale	• Cite and focus on the need for the project based on national and regional/local economic development in terms of contribution to sustainable development agenda or current development thrusts. • Describe the justification for the Project with particular reference made to the economic and social benefits, including employment and associate economic development, which the project may provide. The status of the project should be discussed in a regional and national context.	1-9 to 1-12		
3) Project Alternatives	a) Cite criteria used in determining preliminary options for facility siting, development design, process/technology selection, resource utilization including discussion of the consequences of not proceeding with the project: • Contextualize site selection of the DAM, as well as the canals, in terms of vulnerability/susceptibility to Liquefaction, Ground Shaking, Ground Rupture, Earthquake-induced Landslides Volcanic eruptions, rain-induced landslide storm surge, tsunami, and flooding as well as extreme climatologic conditions (data can be obtained from NDRRMC and NAMRIA as well as mandated agencies) • Discuss the alternatives (type and location) considered and nominated during the course of selecting the best option for which the EIS is prepared; • Description of the bases upon which the alternatives were rejected in favor of the preferred option; • Description of the significant differences in environmental impacts among the alternatives considered. Siting: Alternative project locations including factors significant to the selection such as perception of affected communities with regards to project, ancestral domain issues, land classification, etc. Discuss other options on the siting of major components of the project within the project area. Discuss alternative location of access roads in case the preferred locations of the various components are found environmentally not feasible. Technology Selection/Operation Processes: Discuss project's advantage over alternative technologies, operation processes and engineering design Discuss alternative measures for the prevention of the occurrence of major impacts Resources: Discuss the alternatives considered for power generation and how the decisions were made. Discussion	1-14 to 1-18		

	should also be in the context of climate change (e.g. use of renewable energy).			
	b) Reasons for selecting the preferred options delineated in terms of technical, commercial, social and natural environmental aspects	1-14 to		
	c) After the determination, please indicate a summary of the comparative environmental impacts of each alternative	1-17		
4) Project Components	• Identification of Major components including technical details such as specifications, capacity, number, etc. (e.g. penstock, spillway, freeboard, etc.) • Specify the operations and processes	1-17 to 1-20		
	• Identification of other Support Facilities (i.e. emergency power, process control, early warning/alarm system, etc.) • Identification of infrastructure requirements (transport—road/rail/ship, energy, stormwater drainage, Sewerage, Telecommunications, accommodation and other infrastructure),	1-20		
	• Identification of Pollution control devices and corresponding facility being served or connected Identification of waste management facilities and devices to address solid waste materials (domestic and hazardous and chemicals) air emissions, solid waste disposal, and wastewater.	1-23		
	• General layout of facilities; • Footprint of proposed layout of project facilities (if any) • Maps should be provided showing the precise location of the project area, and in particular, the location and boundaries of project area, location and footprint of project components, and location of all proposed buffers. • When applicable contextualize using the PAG-ASA 2020 and 2050 projected rainfall/temperature data.	1-2, 1-8, 1-21		
5) Process/ Technology	Discuss the impacts of the PAG-ASA 2020 and 2050 projected rainfall pattern on the project and performance/efficiency of the facility.	1-21		
	Power & water supply system - In the context of different project phases (construction, demobilization, and operation)	1-23		
	Waste Management Systems (wastewater treatment facility, dust collector, etc.) in the context of different project phases (construction, demobilization, and operation).	1-23		
6) Project Size	Total volume of water to be impounded. Capacity and type of Dam structure (Full details)	1-25		
	Total Project Area in square meters or hectares including area to be inundated and/or service area	1-25		
7) Manpower	Tabulate the following per project phase: • manpower requirements; • expertise/skills needed; • nature & estimated number of jobs available for men, women, and indigenous peoples (if sited in IP ancestral land); preferred scheme for sourcing locally from host and neighboring LGUs	1-29 to 1-32		
8) Development Plan, Description of Project Phases and Corresponding Timeframes	Phases to be described in terms identifying specific activities (w/ special attention on those with significant environmental impacts as well as climate change adaptation options relevant to the project and project activities) and corresponding projected implementation timeframes: • ***Pre-construction*** (e.g., planning, acquisition of rights to use land, etc.) • ***Construction*** (e.g., land/site clearing, temporary housing, transport of materials, health, sources of the construction materials, and other services for the workforce) • ***Demobilization*** of the contractors after the construction phase. • ***Operation*** (projected period of start-up/commissioning/full operation of various project components) include discussion on the operation of various components (as identified above) in terms of material/product handling, infrastructure requirements (transport—road/rail/ship, energy, water supply and storage, stormwater drainage, sewerage, telecommunications, accommodation and other infrastructure), waste management (character and quantities of waste materials, air emissions, Solid waste disposal, wastewater)	1-26 to 1-29		

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	• ***Abandonment*** Abandonment/Decommissioning Plan, to include Land/soil restoration and procedures & projected schedule. The land use suitability of the various land disturbance types should also be described. The proposed decommissioning plan in terms of the following: • Procedures for the decommissioning of the project components; • Demolition of structures; • Alternatives for the future use of abandoned area. Consistency with long-term zoning and land use development plan of the municipality; and • Restoration requirements			
9) Indicative Project Investment Cost (Philippine Peso)		1-33		

General Contents	Specific Content Requirement	Page #	Acceptable?	REMARKS
II. Key Environmental Impacts and Management/Monitoring Plan	See the attached checklist of contents When applicable include appropriate climate change adaptation measures/options (embedded in each sector).	2-39 to 2-219		
III. Environmental/ Ecological Risk Assessment	See the attached checklist of contents.	4-425 to 5-257		
IV. Impact Management Plan	Limit to most significant impacts per project phase and per environmental component arising from key environmental aspects (See Annex 2-17 of RPM for DAO 2003-30)	3-224 to 3-244		
V. Social Development Framework (SDP) and IEC Framework	SDP • Community development or livelihood programs/activities, projected beneficiaries, partner institutions, timeframe of implementation as well as source and amount allotted per activity/component (See Annex 2-18 of RPM for DAO 2003-30) IEC • Target sector, key messages, scheme/strategy/methods, Information medium, timelines and frequency, cost (See Annex 2-19 of RPM for DAO 2003-30)	5-257 to 5-264 5-625 to 5-281		
V. Environmental Compliance Monitoring	Environmental Performance by discussing the compliance with the ECC conditions, IMP, and EMMoP commitments. Discuss also the compliance with other permitting requirements under different environmental laws.	6-282 to 6-283		
	Self Monitoring Plan Use Annex 2-20 of RPM for DAO 2003-30 as template	6-284 to 6-286		
	Environmental Guarantee and Monitoring Fund Commitments • Present a propose amount of EMF (based on a draft AWFP in Annex 3-4 and consistent with guidelines in Annex 3-5 of RPM for DAO 2003-30); and • Present a proposed amount of EGF and the basis for the estimate following the guidelines in annex 3-6 of RPM for DAO 2003-30	6-291		
VI. Emergency Response Policy and Generic Guidelines	The safety policy and generic guidelines should be consistent with the regulatory requirements. Emergency Preparedness should also consider natural hazards to the infrastructures and facilities. • Include ERA: Safety-based, protection of the workers with respect to construction, and protection of the guests.	7-292		

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General Contents	Specific Content Requirement	Page #	Acceptable?	REMARKS
	Assessment of the existing policies and generic procedures for construction and operation to be submitted as post-ECC, within a timeframe specified in the ECC.			
VII. Abandonment /Decommissioning /Rehabilitation Policy and	Statement on Proponent's policies and generic procedures for Rehabilitation/ Decommissioning/Abandonment to be submitted post-ECC, within a timeframe specified in the ECC. Framework for the abandonment/decommissioning to include institutional arrangement or Organizational Arrangement.	8-293 to 8-296		
VIII. Institutional Plan for EMP Implementation	Discuss the organizational scheme of the proponent including line of command and reporting procedures as well as manpower complement and relationships with other operating departments.	9-296 to		
	Table Of Organization. Discuss the relationship of the proponent and the contractor during the project construction. Institutional plan for the implementation of the IMP and EMMoP during the operation of the project.	9-302		

Checklist of EIS Contents

Key Environmental Impacts and Management/Monitoring Plan

List of Key Impacts	Baseline Data Parameter Requirements	Required Assessment Methodology/Approach	✓ for *completeness during procedural screening; page numbers should be provided upon submission of the EIS*								Remarks
			Baseline Conditions		Impact Analysis		Mgmt. Plan		Monitoring Plan		
During scoping: Unless otherwise specified as agreed during scoping, all items listed are required. Write specific instructions (if any) on the blanks/spaces provided			Page	✓	Page	✓	Page	✓	Page	✓	
I. Land											
1.1 Land Use and Classification		Assessment of the compatibility of the proposed project in relation to land use and / or the coastal resource management plan of the LGU if any.									
1.1.1 Change/Inconsistency in land use	Description & Map showing the project area in relation to existing land use.		2-44		2-49		4-238		6-291		
1.1.2 Encroachment in Environmentally Critical Areas (ECAs)	Identify ECA where the project is located or near the project area. Identify areas vulnerable/susceptible to natural hazards where the project is located or near the project area (include map/s). Include in the discussion the distance of the nearest protected area within the province pursuant to DMO 2023-01.		2-46 2-69 to 2-76 2-45		2-49 to 2-50		4-240 4-241				
1.1.3 Possible tenurial / land issue	Identify areas under CARP or with CADC / CADT where the project is located or near the project area. Specify other conflicting tenurial / land issues (e.g. IFMA/CBFMA within COC and within MPSA, etc.)		2-45 to 2-52		2-50		4-238				
1.2 Geology/Geomorphology											
1.2.1 Change in surface landform/ topography/ terrain/slope	Slope and Elevation/Topographic Map;		2-59 to 2-60		2-79		4-241		6-291		
1.2.2Change in sub-surface/ underground geomorphology	Regional/General Geological Map		2-61		2-79		4-242				
1.2.3 Inducement of subsidence, liquefaction, landslides, mud / debris flow, etc.	Geological Cross-Sections; Sequence Stratigraphic Column of Rock Units; Geomorphological Map: G Factor Contour Maps; Seismicity Map; Differential Settling Map; Results of Geochemical Analyses of Rock Samples (applicable areas); hazard maps (NAMRIA, NDRRMC, MGB, PHIVOLCS, PAG-ASA)	Include discussions on impacts/effects of natural hazard on the project.	2-63 2-69 to 2-77		2-79		4-242				
1.3 Pedology											
1.3.1 Soil erosion / Loss of topsoil/overburden	Summary of Soil Investigation Report on soil type and quality; Erodibility potential; Bank stability;	USLE / similar modeling when applicable	2-84 to 2-90		2-95		4-242				

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1.3.2 Change in soil quality/fertility	Laboratory results on soil sample analysis for N, P, K, pH, organic matter, micronutrients	Physical analysis (water holding capacity, texture aggregate stability of dam); Secondary data: chemical analysis	2-90 to 2-95		2-95		4-244		6-291		
1.4 Terrestrial Ecology											
1.4.1 Vegetation removal and loss of habitat	• Complete inventory of vegetation in the Impact Area • Flora and fauna species inventory or survey report; • Historical occurrences of pest infestation, forest/grass fire and/or similar incidences	Quadrat sampling for flora; Use of mist nets, traps, transect walk for fauna Impact of inundation on terrestrial ecology.	2-99 to 2-128		2-129		4-244		6-291		
1.4.2 Threat to existence and/or loss of important local species	Summary of endemicity / conservation status		2-99 to 2-128		2-129		4-244				
1.4.3Threat to abundance, frequency and distribution of important species	• Summary of abundance, frequency and distribution • Economic importance and uses of significant flora and fauna		2-99 to 2-128		2-130		4-244				
1.4.4 Hindrance to wildlife access	Sampling / survey map in relation to the project site		2-101 to 2-104		2-131		4-244				
2. THE WATER											
2.1. Hydrology/Hydrogeology											
2.1.1 Change in drainage morphology / Inducement of flooding/ Reduction in stream volumetric flow	Drainage map; historical flooding/drought occurrences, stream flow measurements/estimates; Delineation of watershed /sub-watersheds/ floodplain; and identification of aquifers if any	flood simulation/modeling should consider extreme weather conditions and the PAG-ASA 2020 and 2050 climate projections	2-134 to 2-144		2-139		4-245		6-292		
2.1.2 Change in stream, lake water depth	Regional hydrogeological map		2-137		2-143		4-245				
2.1.3 Depletion of water resources / competition in water use	Identification of current / projected water use in the area and adjacent areas Spring and well inventory and location map; depth of water table ; Analysis/estimation of water availability taking into consideration the PAG-ASA 2020 and 2050 climate projections	conduct water balance / budget analysis	2-134 to 2-144		2-143						
2.2 Oceanography (Not Applicable)											
2.2.1 Change/disruption in circulation pattern	Predicted tides; 24-hour tidal cycles; Surface current system										

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2.2.2 Change in bathymetry	Bathymetric map;	USLE / similar modeling when applicable									
2.3 Water Quality											
2.3.1 degradation of groundwater quality	Physico-Chemical characterization of water : ✓ pH ✓ DO ✓ BOD5 ✓ Oil and grease ✓ TSS ✓ SAR sampling site map	Use DENR standard methods and procedures for sampling and analysis.	2-146 to 2-150		2-151		4-246		6-292		
2.3.2 degradation of surface water quality											
2.3.3 degradation of coastal/marine water quality											
2.4 Freshwater Ecology	*FULL Assessment*										
2.4.1 Threat to existence and/or loss species of important local and habitat	• Summary of endemicity / conservation status • Abundance of ecologically and economically important species (fishes, benthos, planktons); • Presence of pollution indicator species; sampling site map	Impact of inundation on freshwater ecology.	2-153 to 2-159		2-160		4-216				
2.4.2 Threat to abundance, frequency and distribution of species											
2.5 Marine Ecology (Not Applicable)											
2.5.1 Threat to existence and/or loss of important local species and habitat	• Abundance/densities/distribution of ecologically and economically important species (mangroves, fishes, benthos, planktons, coral reefs, algae, seaweeds, sea grasses); • Presence of pollution indicator species; • Historical occurrences of red-tide, fish kill or any related event • marine resource map sampling site map	Quadrat, transect, line intercept, spot dive, manta tow, marine resource characterization (e.g. municipal and commercial fisheries data) Impact of inundation on marine ecology.									
2.5.2 Threat to abundance, frequency and distribution											
3.0 THE AIR											
3.1 Meteorology/Climatology											

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			Baseline Conditions		Impact Analysis		Mgmt. Plan		Monitoring Plan		
During scoping: Unless otherwise specified as agreed during scoping, all items listed are required. Write specific instructions (if any) on the blanks/spaces provided			Page	✓	Page	✓	Page	✓	Page	✓	
3.1.1 Change in the local climate e.g. local temperature	Monthly average rainfall and temperature of the area; Climatological normals/extremes; Wind rose diagrams; Frequency of Tropical cyclones	• In the assessment, consider the PAG-ASA climate change projections for 2020 and 2050.	2-161 to 2-169		2-171		4-248				
3.1.2 Contribution in terms of greenhouse gas emissions	Data on Greenhouse gasses (i.e. carbon dioxide, methane); Calculation of projected GHG emission	Discuss the project's contribution in terms of greenhouse gas emissions	2-170		2-171		4-248				
3.2 Air Quality (& Noise)											
3.2.1 Degradation of air quality	characterization of ambient air quality: ✓ TSP/PM10 (for sampling methods refer to Clean Air Act) sampling site map	Use DENR standard methods and procedures for sampling and analysis. For construction phase only.	2-174 to 2-177		2-177		4-249		6-292		
3.2.2 Increase in ambient noise level	Characterization of ambient noise level sampling site map	Use DENR standard methods and procedures for sampling and measurement.			2-178		4-250				
4.0 THE PEOPLE											
4.1 Displacement of settler/s Displacement / disturbance of properties Change/conflict in land ownership Change/conflict Right of way	Demographic data of impact area: - Number of households and household size - Land area, - Population, - Population density /growth - gender and age profile, - literacy rate, profile of educational attainment,	Discuss how the project would affect existing properties in the area in terms of relocation and devaluation	2-181 to 2-218		2-217		4-252		6-293		
4.2 In-migration proliferation of informal settlers	settlements map Census of population / property that will be displaced / disturbed Housing ownership profile / availability of housing/ number of informal settlers	Discuss the in-migration patterns as a result of project implementation	2-181 to 2-219		2-219		4-253				

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			Baseline Conditions		Impact Analysis		Mgmt. Plan		Monitoring Plan		
During scoping: Unless otherwise specified as agreed during scoping, all items listed are required. Write specific instructions (if any) on the blanks/spaces provided			Page	✓	Page	✓	Page	✓	Page	✓	
4.3 Cultural/Lifestyle change (especially on Indigenous People, if there's any)	Demographic data on Indigenous People (if any) and existing Culture/Lifestyle that may be significantly affected	Discuss the impacts on IPs and Culture/Lifestyle	2-181 to 2-219		2-220		NA				
4.4 Threat to delivery of basic services /resource competition	Availability of public services in terms of: • Water supply • Power supply • Communications /transportation • health resources (Government and Private) • peace and order / crime • education facilities • recreational facilities / sports facilities statistical data / information related to public services: • literacy rate, profile of educational attainment • Morbidity and mortality rates (infants and adults - 5-year trend) • Common diseases in the area including endemic diseases; • Environmental Health and Sanitation Profile; • Crime rate • Food security	Discuss how the project would affect the delivery of basic services and may result to resource competition in the area	2-181 to 2-219		2-220		4-255				
4.5 Threat to public health and safety		Discuss the project implementation's threat to public health vis-à-vis the baseline health conditions in the area Analysis of diseases that may be affected by climate change.	2-181 to 2-219		2-220 to 2-221		4-255				
4.6 Generation of Local Benefits from the project Enhancement of employment and livelihood opportunities Increased business opportunities and associated economic activities Increased revenue of LGUs	Socioeconomic data: • Main sources of Income • Employment rate/ profile • sources of livelihood • commercial establishments and activities • banking and financial institutions		2-181 to 2-219		2-222		4-257				
4.7 Traffic congestion	Road network/ systems Existing Transportation/traffic situation	Traffic impact assessment if applicable (including capacity of road system in terms of load/count)	1-11 and 2-222		2-222		4-258				

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III. Environmental Risk Assessment									
Type of Risks	**Scope of Assessment**	**Report/Output Required**	✓ for *completeness during procedural screening; page numbers should be provided upon submission of the EIS*						
			ERA		**ERP**		**Monitoring Plan**		REMARKS
During scoping: Check (✓) required/applicable items; items with ✓ are automatically required; write specific instruction (if any) on the blanks provided			Page	✓	Page	✓	Page	✓	
☐ Physical Risks (Failure of Structure w/c could endanger life, property and/or the environment)	- Identify conditions, events and "trigger" which could be significant in bringing about identified physical risks - Description & assessment of the possible accident scenarios - Assessment of whether the project location is projected to have extreme climate events for 2020 &or 2050 that could contribute to the triggering identified scenarios - Description of the hazards both immediate (acute effects) and delayed (chronic effects) for man and the environment posed by the failure of structure, as applicable	ERA REQUIREMENT ☐Quantitative Risk Assessment(QRA) Specific Instructions : _____ ☑Descriptive/Qualitative Risk Assessment Specific Instructions : _____ ☑ EMERGENCY PLAN : Specific Instructions : _____ ***Refer to annex 2-7e for the decision criteria the outline***	3-227		7-297		6-294		

Noted By:	**Signature**		**Signature**
REVIEW COMMITTEE MEMBERS		**PROJECT PROPONENT'S REPRESENTATIVE & CONSULTANT**	
1. Engr. Jose Reynato Morente		1. For. Milben A. Bragais	
2. Maria Lourdes Q. Moreno, Ph.D		2. Engr. Daniel Angelo M. Malabanan	
3. Engr. Buena Fe A. Rioflorido		3.	
4. EnP. Nicole Yuri V. Dorado			
5. Bianca Christianne I. Roldan			
6. EnP. John Junico Udal			
7. Engr. Dan Goodwin S. Borja			
8. Engr. Willsone Ray M. Añoso			

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RESOURCE PERSONS			
1.			
2.			