



Department of Environment and Natural Resources  
Environmental Management Bureau  
Regional Office No. IV – B MIMAROPA

## ENVIRONMENTAL COMPLIANCE CERTIFICATE

(Issued under Presidential decree 1586)  
ECC-R4B-1311-0146

THIS IS TO CERTIFY THAT THE PROPONENT, NATIONAL IRRIGATION ADMINISTRATION, REGION IV-B, Project Management Office, Buenavista, Marinduque as represented by Engr. Gerardo Perez, OIC, Buenavista Irrigation Management Office is granted this Environmental Compliance Certificate (ECC) for the BAGTINGON SMALL RESERVOIR IRRIGATION PROJECT located at Barangay Bagtingon, Buenavista, Marinduque by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB), MIMAROPA Region.

This Certification is being issued for the Project, with the following details:

PROJECT DESCRIPTION	
This Certificate shall cover the construction, operation and maintenance of <b>BAGTINGON SMALL RESERVOIR IRRIGATION PROJECT</b> , having a total service area of 301.00 hectares located at Barangay Bagtingon, Buenavista, Marinduque. The project components and facilities enumerated to wit:	
<b>A. Hydrology</b>	
Drainage area Inflow Design	7.47 square kilometers 138.17 cubic meters per second
<b>B. Irrigable Area</b>	
Wet Season Dry Season	301.00 hectares 301.00 hectares
<b>C. Dam</b>	
Type Crest Elevation (NWS) Riverbed Elevation Height Crest Length Crest Width Embankment Volume	Zone Earthfill 112.00 meters 85.00 meters 27.00 meters 218.00 meters 9.00 meters 278,557.00 cubic meters
<b>D. Spillway</b>	
Type Crest Elevation Crest Width Design Capacity	Uncontrolled Ogee 107.00 meters 15.00 meters 138.17 cubic meters per second
<b>E. Diversion Conduit/Outlet Works</b>	
Type Number and Size of Conduit Type of Control Number and Size of Control	R. C. Conduit 1-1.80 meters diameter High Pressure Gates 1-60.00 centimeters Gate Valve 1-60.00 centimeters Butterfly Valve

ECC-R4B-1311-0146

Bagtingon Small Reservoir Irrigation Project  
Barangay Bagtingon, Buenavista, Marinduque

*[Signature]*

6<sup>th</sup> Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita Manila  
RD's Office 536-9786, Admin/Finance Division Telefax No. 400-5960

PC Division 521-8904, EIA Division Telefax No. 400-5960

E-mail Address: [admin-emb-r4b@denr.gov.ph](mailto:admin-emb-r4b@denr.gov.ph) and [emb\\_mimaropa@yahoo.com](mailto:emb_mimaropa@yahoo.com)

**F. Reservoir**

Max. Water Surface Elevation	110.19 meters
Normal Water Surface Elevation	107.00 meters
Min. Water Surface Elevation	96.00 meters
Reservoir Area @ MWSE	14.78 hectares
Reservoir Area @ NWSE	12.23 hectares
Reservoir Area @ Mini. WSE	5.00 hectares
Active Storage Capacity	0.92 million cubic meters
Dead Storage Capacity	0.21 million cubic meters
Total Storage Capacity	1.13 million cubic meters

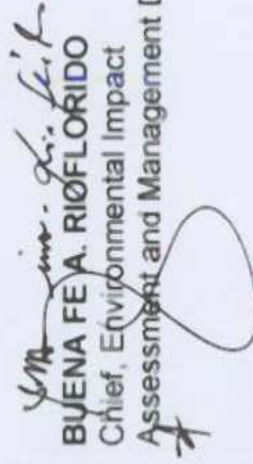
This certification is issued in compliance to the requirements of Presidential Decree No. 1586, in accordance to Department Administrative Order No. 2003-30. The Bureau, however, is not precluded from reevaluating, adding, removing, and correcting any deficiencies or errors that may be found after issuance of this Certificate.

This is to certify, further, that in issuing this **CERTIFICATE**, it should be understood that the same is a **PLANNING TOOL** and **NOT A PERMIT**. It is expected that the proponent will diligently secure pertinent **PERMITS/CLEARANCES** from all concerned government agencies prior to the start/implementation of the project. Furthermore, the DENR/EMB will be monitoring the project periodically to ensure compliance with the stipulations cited in the attached conditions and restrictions which are made as integral part of this ECC.

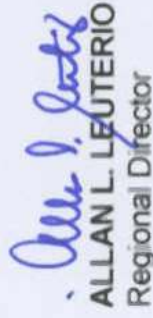
Issued at EMB MIMAROPA Region this

**DEC 16 2013**

Recommending Approval:

  
**BUENA FE A. RIOFLORIDO**  
Chief, Environmental Impact  
Assessment and Management Division

Approved by:

  
**ALLAN L. LEUTERIO**  
Regional Director

ECC-R4B-1311-0146  
Baguigon Small Reservoir Irrigation Project  
Bantugay Baguigon, Buenavista, Marikinaque

CC: The RED DENR Region IV-B  
The PENRO - Marikinaque  
The CENRO - Marikinaque

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## SWORN STATEMENT OF OWNER/PROPONENT

Under the provisions of Presidential Decree 1586, I, **ENGR. GERARDO R. PEREZ, Officer in Charge, Bagtingon Irrigation Management Office** do hereby certify that the information provided to the Department of Environment and Natural Resources (DENR) – Environmental Management Bureau (EMB), MIMAROPA Region pertaining to the **Bagtingon Small Reservoir Irrigation Project** located at **Barangay Bagtingon, Buenavista, Marinduque**, are true and correct to the best of my personal knowledge and based on the records in my possession and I shall take full responsibility in complying with all conditions and restrictions contained in this Environmental Compliance Certificate (ECC).

### GERARDO R. PEREZ

OIC, Buenavista Irrigation Management Office  
National Irrigation Administration  
Region IV-B  
Proponent

TIN – \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2012, the above-named affiant taking oath presenting Residence Certificate No. \_\_\_\_\_ issued on \_\_\_\_\_ 2012 at \_\_\_\_\_.

\_\_\_\_\_  
Signature of Administering Officer

ECC-R4B-1311-0146  
Bagtingon Small Reservoir Irrigation Project  
Barangay Bagtingon, Buenavista, Marinduque

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## I. CONDITIONS

### ENVIRONMENTAL MANAGEMENT

The proponent shall strictly implement the following mitigating, enhancement, and rehabilitating measures:

1. That green buffer zones and tree planting shall be established within and along the periphery of the project site to help attenuate noise levels, abate heat and absorb some pollutant emissions. The status of compliance shall be included in the semi-annual submission of CMR to this office.
2. The proponent shall enter into a Memorandum of Agreement with the concerned DENR-Provincial Environment and Natural Resources Office in the implementation of the tree planting activity 30 days prior to project implementation. The tree planting is one of the recommended activities in compliance with the government's commitment to the Kyoto Protocol Agreement.
3. That the proponent shall strictly manage all external, traffic problems, excessive surface runoff, dust, soil erosion, accidental spillage and health hazards identified in the Generic Initial Environmental Examination (IEE) Checklist Report and, in case of emergency episodes, appropriate response activities shall be immediately undertaken for the protection of the workers/ personnel, host and nearby communities and the receiving environment.
4. That an effective Information, Education and Communication (IEC) Plan shall be submitted within 30 days prior to project operation and shall be implemented in all phases of the project including communication of environmental risks of the project implementation.
5. That the stockpiles of spoils from civil works and construction debris shall be placed away from drainage routes and proper disposal of the same shall be effected. The same should not in any manner cause nuisance and traffic hazards to the public in the course of its disposal/hauling.
6. That riverbank stabilization measures shall be undertake prior to any excavation works to prevent or minimize soil erosion that may cause high turbidity of the river.
7. That the structural design and component structures of the project shall conform with the National Building and Structural Code of the Philippines and its implementing rules and regulations and to be monitored by the Municipal Engineer and the proponent/consultant.
8. That all filling and construction materials to be used in the project must come from the legally permitted sources/suppliers.
9. That the landowner affected by the project shall be properly compensated prior to project implementation.
10. That the DENR-EMB is not accountable to any untoward incident that maybe happen during the project construction and operation cause by force majeure, structural defects or non-adoption of project construction design standard.
11. That preservation and easement retention of natural drainage/waterways shall be undertaken and should conform with the provisions of the DENR Administrative Order No. 97-05 (Procedures in the Retention of Areas within certain distances along the Banks of Rivers, Streams, and Shores of Seas, Lakes and Oceans for Environmental Protection). If disturbed, a replacement drainage system shall be constructed within two (2) months from the disturbance.
12. That the proponent shall strictly manage all external, traffic problems, excessive surface runoff, dust, soil erosion, accidental spillage and health hazards identified in the Initial Environmental Examination (IEE) Report and, in case of emergency episodes, appropriate response activities shall be immediately undertaken for the protection of the workers/ personnel, host and nearby communities and the receiving environment.



13. The proponent shall set up the following:

- a. A Multi-partite Monitoring Team (MMT) composed of representative(s) from the proponent, DENR Region IV-B, EMB Region IV-B, a local environmental Non-Government Organization (NGO), and the LGUs shall be organized. The MMT should primarily oversee the compliance of the proponent with the Environmental Management and Monitoring Plan (EMMP) and the ECC conditions;
- b. A replenishable Environmental Monitoring Fund (EMF) to cover all costs attendant to the operation of the MMT such as conduct meetings, training, sampling and analysis, hiring of technical experts, meals, accommodations, supplies and materials, communication, and transportation.

The amount and mechanics of the EMF, and the establishment of the MMT shall be determined by the EMB-MIMAROPA Region and the proponent in consultation with stakeholder-communities and other concerned agencies. This MOA shall be submitted to EMB-MIMAROPA within sixty (60) days upon receipt of this Certificate.

14. That the solid waste management scheme as provided in the Environmental Management Plan (EMP) shall be continuously implemented from the start of the project operation.

#### GENERAL CONDITIONS

Further administrative conditions for the grant of this Certificate shall be strictly complied:

15. That this office shall be informed in writing within thirty (30) days on the date of the commencement of the project
16. That the proponent shall religiously comply with the applicable provisions of P.D. 1586 (Philippine Environmental Impact Statement System), R.A. 9275 (Philippine Clean Water Act of 2004), R.A. 9003 (Ecological and Solid Waste Management Act of 2000), R.A. 6969 (Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990) and R.A. 8749 (Philippine Clean Air Act of 1999) and the Sanitation Code of the Philippines (P.D. 856).
17. That the proponent shall set-up a competent Environmental Unit and shall be duly accredited by this Office in accordance with DAO No. 26, series of 1992 (Appointment/Designation of Pollution Control Officers). The Environmental Unit shall be integrated in the proponent's organizational chart to handle all environment related aspects of the project implementation in addition to the monitoring requirements as specified in the Environmental Management Plan (EMP)/Environmental Monitoring Plan (EMoP) and other environmental commitments such as but not limited to the following:
  - 16.1 Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the Generic IEE Checklist Report.
  - 16.2 Ensure that all post-assessment permits/clearances from other concerned government agencies are secured and in place.
  - 16.3 Regular submission of a semi-annual ECC Compliance Monitoring Report (on or before January 15 and July 15 of each year the project is operational) provided with supporting documents and in accordance with the prescribed format stipulated in the Implementing Rules and Regulations of P.D. 1586.
  - 16.4 Submit a quarterly monitoring report using the prescribed format of the Self-Monitoring Report (SMR) pursuant to DAO 2003-27.
  - 16.5 Submit an Abandonment Plan two (2) months prior to the abandonment activities. It shall include rehabilitation measures/clean-up, costs, remediation of areas possibly contaminated with toxic/hazardous substances and presentation of options on proposed alternative projects in the area.
18. That the proponent shall allocate ample budget for the implementation of the proposed mitigating/enhancement measures during the operation and abandonment phases of the project.



19. That health and sanitation practices shall be observed in all phases of the project and safety & personal protection equipment/devices shall always be provided to all employees/workers within the premises of the project site to prevent health and occupational hazards.

20. That a billboard containing this message: "Notice to the Public, This **BAGTINGON SMALL RESERVOIR IRRIGATION PROJECT** of **NIA, REGION IV-B, Project Management Office, Buenavista, Marinduque** has been issued an Environmental Compliance Certificate (ECC-R4B-1311-0146) by the Department of Environment and Natural Resources - Environmental Management Bureau MIMAROPA Region on **DEC 16 2013**" shall be installed at all entry and exit points and in the perimeter of the project site facing the road to inform the general public within thirty (30) days from receipt of the ECC.

21. That a copy of the ECC shall be posted in a conspicuous location at the field office of the project site clearly visible to the public and shall be adequately framed or otherwise protected against damage and at the barangay bulletin board of the host barangay(s) within thirty (30) days from receipt of the ECC.

22. That any authorized DENR-EMB personnel, with proper identification card and travel/mission order, shall be allowed unconditional access to conduct an on-the-spot inspection and monitoring to the project without the need for prior notice to the proponent to oversee compliance to the ECC.

## II. RESTRICTIONS

1. That no other activities should be undertaken other than what was stipulated in the IEE Checklist Report. Should there be an expansion of the project beyond the project description, construction of other structures beyond those stated in the IEE Checklist Report, or any change in the activity or location, shall be made subject to a new Environmental Impact Assessment (EIA) requirements.
2. That all appropriate construction, operational and resource-use permits/clearances from other national and local government agencies concerned (i.e., PNP, LGUs, DPWH, DOH, NWRB, HLURB, DOLE, DTI, etc.) shall be secured pertaining to the implementation of the project. Likewise, the proponent shall notify this Office of the reckoning date of project operation.
3. That in case of transfer of ownership/management of this project, these same conditions and restrictions shall apply and the transferee shall be required to notify this Office concerned within fifteen (15) days as regards to the transfer of ownership/management.
4. The proponent shall plant an equivalent area of the project with appropriate tree species and shall coordinate with PENRO/CENRO concerned for area identification.
5. That the proponent, (NIA, Project Management Office, Buenavista, Marinduque) shall be accountable for any misrepresentation and failure to state material information in the submitted documents.

The conditions stipulated in this Certificate shall be deemed final within fifteen (15) days from receipt hereof and all conditions and restrictions set forth above shall be complied with by the herein grantee. This ECC is deemed expired if not implemented within five (5) years from the date of issuance and the proponent shall have to apply for a new ECC if it intends to pursue the project.

*Non-compliance with any of the provisions of this certificate shall be a sufficient cause for the cancellation or suspension of this certificate and/or imposition of a fine in an amount not to exceed Fifty Thousand Pesos (PhP50,000.00) for every violation thereof.*



## PROJECT ASSESSMENT PLANNING TOOL

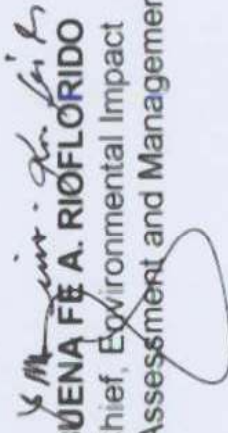
For the assistance of the Proponent, LGUs and other concerned government agencies (GAs) in the management of the project and for better coordination in mitigation on the impacts of the project on its surrounding areas and to the environment.


By way of recommendation, the following have been taken notice of by this Office and are providing these recommendations to the parties and authorities concerned for proper action and integration into their decision making-process.

<b>Regulatory Conditions</b>	
1. The proponent shall comply with, but not limited to the following:  1.1 P.D. 856 or the Sanitation Code of the Philippines; 1.2 P.D. 442 or the Labor Code of the Philippines including occupational health and safety; 1.3 R.A. 6541 or the National Building Code of the Philippines including adequate storm drainage system and other flood control measures and compliance to the Fire Safety and Emergency Preparedness; 1.4 P. D. 705 Forestry Code of the Philippines 1.5	DOH  DOLE-Bureau of Working Condition Municipal Planning & Dev't. Office/Building Official/BFP/ LGU Concerned  Forest Management Bureau
<b>Environmental Planning Recommendations for the Proponent</b>	
2. Close monitoring of the project should be undertaken by the proponent to maintain a high level of safety and efficiency at all phases of the project and to immediately address any environmental hazard that may take place.	

For dissemination and proper action of the parties concerned.

  
**NUNILON R. TANGUILIG**  
OIC, Project Evaluation Section

  
**BUENA FE A. RIOFLORIDO**  
Chief, Environmental Impact Assessment and Management Division

  
**ALLAN L. LEUTERIO**  
Regional Director

ECC-R4B-1311-0146  
Bagtungan Small Reservoir Irrigation Project  
Barangay Bagtungan, Buenavista, Marikina

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