



Republic of the Philippines
Department of Environment and Natural Resource
ENVIRONMENTAL MANAGEMENT BUREAU

DENR Compound, Gibraltar, Baguio City
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November 5, 2025

ECC-OL-CAR-2025-0330

Honorable BENJAMIN B. MAGALONG

Mayor, City of Baguio
Baguio City Hall, Abanao Street,
Barangay Rizal Monument, Baguio City

Subject: **ENVIRONMENTAL COMPLIANCE CERTIFICATE (ECC)**

Dear **Mayor Magalong**:

This refers to the ECC application for the project entitled: "Construction of Decentralized Sewage Treatment Plant (Johkasou Technology)" to be undertaken within the City Engineering Office, Motorpool Compound, Barangay Lower Rock Quarry, Baguio City.

After satisfying the requirements of the said application, this Bureau has decided to grant an ECC for the abovementioned project.

With the issuance of this ECC, you are expected to implement the measures presented in the Initial Environmental Examination Checklist (IEEC) which are intended to protect and mitigate the project's adverse impacts on community health, welfare and the environment. Environmental safeguards shall be incorporated in all phases and aspects of the project.

This Certificate does not create any right nor shall it be used as an authorization to implement the project. It automatically expires if the project is not implemented within five (5) years from its issuance, or if its validity is not requested for extension within three (3) months from the expiration date. You may proceed with the project implementation after securing all the necessary permits from other pertinent government agencies. Please submit within sixty (60) days from the start of project implementation proofs of project commencement pursuant to EMB Memorandum Circular No. 2020-31. This Office will be monitoring the project periodically to ensure your compliance with stipulations cited in the attached ECC.

Please be guided accordingly.

Very truly yours,

ENGR. JEAN C. BORRROMEO
OIC-Regional Director



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ENVIRONMENTAL COMPLIANCE CERTIFICATE

(Issued under Presidential Decree No. 1586)
ECC-OL-CAR-2025-0330

THIS IS TO CERTIFY THAT THE PROPONENT, the **City Government of Baguio** represented by **Mayor Benjamin B. Magalong**, is granted this Environmental Compliance Certificate (ECC) for the **construction and operation of a sewage treatment plant within the City Engineering Office, Motorpool Compound, Barangay Lower Rock Quarry** in the city of Baguio by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB).

SUBJECT ONLY to the conditions and restrictions set in this ECC and in the attached document labeled as Annexes "A" and "B".

This Certificate is issued with the following details:

PROJECT DESCRIPTION

*The ECC covers the construction and operation of the Sewage Treatment Plant (STP) with a **daily system capacity of 14 cubic meters**, to be located at the City Engineering Office, Motorpool Compound, Barangay Lower Rock Quarry, Baguio City, approximately at the intersection of the geographical coordinates 16.409944° N, 120.587767° E.*

The project was granted clearance by the Protected Area Management Board-Marcos Highway Watershed Forest Reserve through Resolution numbered 94, Series of 2024.

The other project components include two (2) septic tanks and a drainage system.


This Certificate is issued in compliance with the requirements of Presidential Decree No. 1586, and in accordance to DENR Administrative Order (D.A.O.) No. 2003-30. EMB-CAR, however, is not precluded from reevaluating and correcting any deficiencies or errors that may be found after issuance of this Certificate.

Issued at EMB-CAR, DENR Compound, Gibraltar, Baguio City this November 5, 2025.

Recommending Approval:


ENGR. MARIE PINA L. RODAS
Chief, Clearance & Permitting Division

Approved:



ENGR. JEAN C. BORROMELO
OIC-Regional Director



Environmental Compliance Certificate
CONSTRUCTION OF DECENTRALIZED SEWAGE TREATMENT PLANT (JOHKASOU TECHNOLOGY)
City Engineering Office, Motorpool Compound, Lower Rock Quarry Barangay,
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SWORN ACCOUNTABILITY STATEMENT


I, Mayor Benjamin B. Magalong of the City Government of Baguio, with office address at Baguio City Hall, Abanao Street, Barangay Rizal Monument, Baguio City take full responsibility in complying with all conditions in this Environmental Compliance Certificate (ECC) as well as in the impact assessment and mitigation measures as contained in the IEE Checklist. Further, I hereby certify that the information provided to EMB-CAR pertaining to this project were true and correct to the best of my personal knowledge and based on the records on my possession.


HON. BENJAMIN B. MAGALONG
TIN No. _____

Subscribed and sworn before me this NOV 11 2025, the above-named affiant taking oath presenting _____, issued on _____ at _____.

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Page No. 45
Book No. 140
Series of 2025

Notary Public


FAUSTINO A. OLOWAN
Notary Public,
Notarial Commission expires on December 31, 2026
Serial No. NA-09-NC-25 R; 08 January 2025; Baguio City
PTR No. 7627032; 20 December 2024, Baguio City
IBP OR Receipt No. 476388; 12 Nov 2024, Baguio-Benguet Chapte.
M.C.L.E Compliance No. VIII-0004714, April 14, 2028, Pasig City
Roll No. 40936; April 10, 1996; TIN: 120-000-4714
Doc. No. _____ ; Page No. _____ ; Bk. No. _____ , Series of _____



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I. ENVIRONMENTAL MANAGEMENT

All commitments, mitigation and enhancement measures, and monitoring requirements specified in the Initial Environmental Examination (IEE) Checklist Report and the Environmental Management Plan (EMP) for the project, including any modifications or additional information granted by EMB-CAR, shall be adopted and strictly implemented throughout the project's construction and operational phases to minimize adverse environmental impacts. These measures shall include the following:

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES
Construction Phase	
Siltation of nearby watercourses due to soil erosion and/or surface water run-off	<ul style="list-style-type: none"> • Provision of adequate drainage systems to channel sediment-laden water away from watercourses. • Proper stockpiling and disposal of waste materials generated from the project development in permanent and stabilized areas away from any water bodies and drainage systems. • Timely construction of appropriate and adequate erosion control and slope protection measures where applicable to protect adjacent properties/environment.
Generation of earth spoils from grading/levelling/excavation activities	<ul style="list-style-type: none"> • Excess earth materials and other construction spoils shall be disposed-off properly at the pre-designated disposal areas within the site and shall be prevented from disposition to and along public roads, drainage system, water bodies and other environmentally sensitive areas.
Generation of noise from heavy equipment and delivery trucks	<ul style="list-style-type: none"> • Use of mufflers and exhaust silencers and conduct of regular equipment maintenance. • Provision of appropriate noise mitigating measures (such as construction of fences, enclosure of stationary work areas and equipment, maintenance of equipment, etc.) whenever applicable
Air pollution due to the generation of: <ul style="list-style-type: none"> • dust from site preparation and movement of vehicles in and out of the site • exhaust emissions from motor vehicles and operation of heavy equipment and machineries 	<ul style="list-style-type: none"> • Maintain a misty access road surface within the project site by sprinkling water as necessary during the dry season. • Implement speed limit for vehicles. • Vehicles transporting construction materials shall be fully covered with tarpaulin, canvas, or similar protective material at all times to prevent dust dispersion, spillage, and littering along public roads and nearby areas. • Regular maintenance of heavy equipment to ensure engines and exhaust systems are in good condition

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Soil and groundwater contamination from system leakage, overflow, or improper sludge handling	<ul style="list-style-type: none"> • All underground treatment tanks and components shall be constructed with proper sealing, waterproofing, and corrosion-resistant materials to prevent leakage and structural degradation; • The underground location shall be positioned at a safe distance from groundwater sources and with proper separation from water supply wells as per regulatory requirements.
Degradation of surface water quality due to contamination from domestic wastewater, fuel, used oil, etc.	<ul style="list-style-type: none"> • All effluents from the workers' barracks shall be channeled into appropriate wastewater treatment facilities (WWTFs) and should not directly discharge into any bodies of water or land. • Implement organized waste storage, where bulk waste oils and lubricants are placed in impermeable area with appropriate secondary containment.
Generation of construction debris and domestic solid wastes	<ul style="list-style-type: none"> • Implementation of a solid wastes segregation, collection and disposal scheme consistent with the provisions of R.A. 9003 (The Ecological Solid Waste Management Act of 2000). • Good housekeeping and sanitation practices shall be maintained within the project site at all times. Likewise, all other forms of nuisance shall be properly controlled and confined within the project site.
Operation Phase	
Degradation of surface water quality from inadequate treatment, equipment failure, or operational inadequacies of the sewage treatment plant	<ul style="list-style-type: none"> • The STP shall be covered with a Discharge Permit from EMB-CAR and effluents shall conform with DENR-Administrative Order 2016-08 and 2021-19, Water Quality Guidelines and General Effluent Standards, subject to monitoring of this office. • Monitoring of the following significant effluent quality parameters shall be conducted pursuant to the provisions of DENR Administrative Order (DAO) No. 2016-08 and DAO No. 2021-19: <ol style="list-style-type: none"> 1. Biological Oxygen Demand (BOD) 2. Fecal Coliform 3. Nitrate as NO₃ -N 4. Ammonia as NH₃ -N 5. Phosphate as Phosphorus (Total, Reactive) 6. Surfactants (as Methylene Blue Active Substances or MBAS) 7. Oil and Grease



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	<ul style="list-style-type: none"> • Sewage sludge generated from the operation of the STP shall be properly treated, handled, stored, transported, and disposed of in accordance with Section 5.5.3 of DENR Administrative Order No. 2001-34 (Revised Procedural Manual for DAO 1990-35 on Wastewater Discharge Permitting) and, Section 13 of Republic Act No. 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990), if applicable • The system shall be subject to regular preventive maintenance and desludging at intervals recommended by the manufacturer or as determined by operational performance monitoring, with records maintained and submitted to EMB-CAR as required.
Air quality degradation from odor generation and greenhouse gas emissions during biological treatment processes	<ul style="list-style-type: none"> • Proper ventilation systems shall be installed and maintained to minimize odor emissions from treatment units • Odor control measures shall be implemented if odor complaints arise from nearby communities

GENERAL CONDITIONS

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

1. The proponent shall secure all required permits and clearances from the relevant government agencies with administrative jurisdiction over the proposed project prior to commencing any phase of the sewage treatment plant's operation;
2. The sewage treatment plant shall be covered with a Discharge Permit from EMB-CAR and effluents shall conform with DENR Administrative Orders 2016-08 and 2021-19, Water Quality Guidelines and General Effluent Standards, subject to monitoring of this office. In addition, sewage sludge generated from the operation of the STP shall be treated and disposed of properly in compliance to applicable rules and regulations;
3. The proponent shall allow entry of EMB-CAR personnel into the project site at all times to conduct monitoring and to validate the project's compliance with the ECC conditions stipulated herein;
4. The resolution of all legal issues and concerns arising from the project implementation shall be the sole responsibility of the proponent;
5. The proponent shall submit to EMB-CAR a Compliance Monitoring Report (CMR) on a semiannual basis, upon the start of the project implementation, within the month immediately following the end of each semester (January to June: July 1-31, July to December: January 1-31);



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6. The proponent shall cause the implementation of any undertaking which may be imposed by EMB-CAR as a result of Technical Conference/s called relative to environmental issues arising from the implementation of the project; and
7. EMB-CAR reserves the right to cancel or withdraw this certificate for any misrepresentation of facts vital to the issuance of this certificate and for any violation of the conditions stipulated herein.

II. RESTRICTIONS

The proponent is strictly subjected to the following restrictions:

1. All construction materials shall be sourced from suppliers with valid permits and licenses, in compliance with applicable laws and regulations;
2. Project development shall be carried out in accordance with the submitted documents. Any modifications and/or expansion shall be subject to a new environmental impact assessment in compliance with the Philippine Environmental Impact Statement System (PEISS). The proponent shall secure the necessary amendment to this ECC prior to implementing any such modification and/or expansion;
3. The project shall undergo the requirements specified in the implementing guidelines of the Department Administrative Order No. 2003-30 if the project is not implemented within five (5) years from the issuance hereof; and
4. The proponent shall submit to EMB-CAR within sixty (60) days from the start of implementation a proof of commencement of the project (together with attached documents, geotagged photos with time stamp, etc.) as per EMB Memorandum Circular No. 2020-31.

Non-compliance with any of the provisions of this Certificate shall be a sufficient cause for the cancellation of this Certificate and/or imposition of a fine in an amount not to exceed Fifty Thousand Pesos (P50, 000.00) for every violation thereof without prejudice to imposition of fines and penalties under other environmental laws.



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ANNEX “B”

PROJECT ASSESSMENT PLANNING TOOL

For the assistance and guidance of the proponent and government agencies concerned in the management of the project and for better coordination in mitigation of the impacts of the project on its surrounding areas and the environment, and by way of recommendation, forwarding these recommendations to the parties and authorities concerned for appropriate action.

OTHER REGULATORY REQUIREMENTS/CONDITIONS	CONCERNED GOVERNMENT AGENCIES/ENTITIES
1. Compliance with Code on Sanitation of the Philippines;	Local Government Unit (LGU) and Department of Health (DOH)
2. Compliance with the Labor Code of the Philippines (PD No. 442), as amended, and RA No. 11058 (An Act strengthening Compliance with Occupational Safety and Health Standards and Providing Penalties for Violations Thereof)	Department of Labor and Employment (DOLE)-Bureau of Working Standards
3. Compliance with the Ecological Solid Waste Management Act	LGU
4. Compliance with the Marcos Highway Watershed Forest Reserve - Protected Area Management Board (MHWFR-PAMB) Resolution No. 94, Series of 2024	Department of Environment and Natural Resources-Cordillera Administrative Region (DENR-CAR) / Protected Area Management Office of the Marcos Highway Watershed Forest Reserve
ENVIRONMENTAL PLANNING RECOMMENDATION FOR THE PROPONENT	
1. All appurtenant physical structures of the project, where applicable, shall comply with the requirements of the latest National Building Code of the Philippines and other relevant laws, rules, and regulations. Compliance with the same shall be coordinated with the concerned city building official;	
2. Priority in employment shall be given to qualified, competent, and physically fit local residents, and adequate public information on available job opportunities in the affected areas shall be provided;	
3. Construction activities involving the use of heavy equipment shall be undertaken only during reasonable time periods to avoid undue disturbance to nearby residents, especially at night.	



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Nighttime construction activities shall be coordinated with Barangay Sto. Tomas Proper to ensure proper community notification and the observance of necessary safety measures.

4. Dust and soil spillages along roads arising from earthworks, hauling, and delivery of construction materials shall be properly controlled to prevent nuisance and adverse effects to nearby residents;

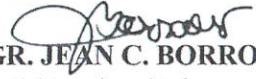
5. All working areas shall be provided with appropriate safety measures, including warning signs, adequate lighting during nighttime, and sufficient railings or barricades to prevent accidents;

6. Project implementation shall be supervised by qualified technical personnel to ensure full compliance with sound engineering practices, safety standards, and occupational health requirements; and

7. The project engineer, contractor, and workers shall be properly oriented and fully apprised of the conditions stipulated in this ECC and the provisions of the Environmental Management Plan (EMP) to ensure environmentally sound project implementation.

For the dissemination and proper action of the agencies concerned.


ENGR. MARIE PINA L. RODAS
Chief, Clearance & Permitting Division


ENGR. JEAN C. BORROMEO
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