



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

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June 20, 2022

ECC-OL-R4B-2022-0098

Ms. ARLENE V. CORTUNA

Owner

QUARRY/LEASE - GRAVEL AND SAND PROJECT

Barangay Poblacion, Abra de Ilog, Mindoro Occidental

Subject: **ENVIRONMENTAL COMPLIANCE CERTIFICATE**

Dear **Ms. Cortuna**:

This refers to your application for an Environmental Compliance Certificate (ECC) for the proposed QUARRY/LEASE - GRAVEL AND SAND PROJECT Project to be located in Barangay Balao, Abra de Ilog, Mindoro Occidental.

After satisfying the requirements of Presidential Decree No. 1586 and its Implementing Rules and Regulation, this Bureau has decided to grant an ECC for the above-mentioned project.

In this regard, the proponent is expected to fully implement the measures presented in the Initial Environmental Examination Checklist (IEEC), intended to protect and mitigate the project's predicted adverse impacts on community health, welfare, and the environment. Environmental considerations shall be incorporated in all phases and aspects of the project.

This certificate does not create any right nor can it be used as an authorization to implement or commence with the operation of the project. This Office shall be monitoring the project periodically to ensure strict compliance with the stipulations cited in the attached ECC.

Please be guided accordingly.

Very truly yours,

JOE AMIL M. SALINO
Regional Director



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ENVIRONMENTAL COMPLIANCE CERTIFICATE
(Issued pursuant to Presidential Decree No. 1586 and its IRR)
ECC-OL-R4B-2022-0098

THIS IS TO CERTIFY THAT THE PROPONENT, **Arlene V. Cortuna**, is granted this Environmental Compliance Certificate (ECC), for its **QUARRY/LEASE - GRAVEL AND SAND PROJECT** located in Barangay Balao, Abra de Ilog, Mindoro Occidental, by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB).

SUBJECT to the conditions and restrictions set out herein labeled as Annexes A and B:

PROJECT DESCRIPTION		
This Certificate shall cover the QUARRY/LEASE - GRAVEL AND SAND PROJECT of Arlene V. Cortuna to be located at Barangay Balao Abra de Ilog, Mindoro Occidental having an aggregate area of 4.9998 hectares and Extraction Rate of 50,000 m³/year (132,500 tons/year) specifically described as follows:		
TIE LINE: S 27° 34' E, 823.57 M; From MRW-4226, Balao Abra de Ilog, Occidental Mindoro to Corner Marked "1":		
TECHNICAL DESCRIPTIONS		
Line	Bearing	Distance (m)
1-2	S 08° 12' W	73.29
2-3	S 20° 33' W	44.60
3-4	S 33° 05' W	97.34
4-5	S 19° 58' W	107.03
5-6	S 51° 22' W	154.58
6-7	S 20° 00' W	67.89
7-8	S 46° 43' W	109.77
8-9	S 65° 20' W	87.25
9-10	S 49° 14' W	64.11
10-11	S 29° 45' W	84.75
11-12	S 52° 44' W	44.34
12-13	N 15° 11' W	58.25
13-14	N 37° 42' E	238.19
14-15	N 55° 32' E	43.88
15-16	N 87° 21' E	61.47
16-17	N 41° 28' E	95.60
17-18	N 31° 00' E	95.12
18-19	N 57° 57' E	84.25
19-20	N 19° 17' E	222.26
20-21	N 35° 25' W	46.77
21-1	S 84° 05' E	85.28

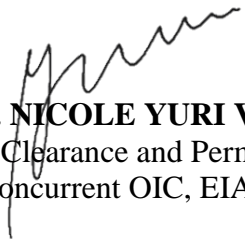


Environmental Compliance Certificate
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Arlene V. Cortuna

This Certificate is issued in compliance with the requirements of Presidential Decree No. 1586, and its Implementing Rules and Regulations. Non-compliance with any of the provisions of this Certificate including the mitigating measures cited herein shall be a sufficient cause for its cancellation 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 the imposition of fines and penalties under other environmental laws. The EMB, however, is not precluded from reevaluating and correcting any deficiencies or errors that may be found after issuance hereof.

Issued at EMB-R4B, 1515 L and S Building, Roxas Boulevard, Pasay City this June 20, 2022.

Recommending Approval: ,


ENP. NICOLE YURI V. DORADO
OIC, Clearance and Permitting Division
and concurrent OIC, EIA Section

Approved:


JOE AMIL M. SALINO
Regional Director



Environmental Compliance Certificate
QUARRY/LEASE - GRAVEL AND SAND PROJECT
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SWORN ACCOUNTABILITY STATEMENT

I, **ARLENE V. CORTUNA**, with office address located in Barangay Poblacion, Abra de Ilog, Mindoro Occidental, takes full responsibility in complying with all conditions in this Environmental Compliance Certificate (ECC).

ARLENE V. CORTUNA
Signature

TIN No. _____

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

Notary Public

Doc. No. _____
Page No. _____
Book No. _____
Series of _____



Environmental Compliance Certificate
QUARRY/LEASE - GRAVEL AND SAND PROJECT
Barangay Balao Abra de Ilog, Mindoro Occidental
Arlene V. Cortuna

I. ENVIRONMENTAL MANAGEMENT

All commitments, mitigating measures and monitoring requirements, especially those contained in the Initial Environmental Examination Checklist Report, particularly in the Environmental Management and Monitoring Plan (EMMoP), shall be instituted to minimize any adverse impact to the environment throughout the project implementation including among others the following, *to wit*:

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES
A. Construction Phase		
A.1 Site Development (Site Clearing, Road Network Development (ISAG), Construction of processing and other Related Facilities (with crushing plant))		
Degradation of surface water quality due to contamination from domestic wastewater (with crushing plant)	<ul style="list-style-type: none">Provide (indicate number) of portalets for construction workers <p><i>Note: at least one (1) portalet for 60 workers where the number of male workers exceeds 500 (as per IRR- Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)</i></p> <p><i>Note: at least one (1) portalet for 25 workers where the number of male workers exceeds 100 (as per IRR- Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)</i></p> <ul style="list-style-type: none">Provision of temporary septic tank or wastewater collection system for workers <p>Hauling of wastewater from portalets/septic tank by third party shall be covered by a licensed/permit from LGU and with valid Discharge Permit for the wastewater treatment facility</p>	100% complaint with RA 9275
Potential siltation of nearby drainage system/ water bodies due to soil erosion (with crushing plant)	<ul style="list-style-type: none">Provision of drainage systems to minimize and control infiltration of sediments to the nearby water bodiesProvision of an easement from water bodies at least three (3) meters in urban areas, twenty (20) meters in agricultural areas, and forty (40) meters in forest areas in compliance to the Water Code of the Philippines	100% compliance to DAO 2016-08 and RA 9275



Generation of dust from site preparation	<ul style="list-style-type: none"> • Maintain a misty access road surface within project site by sprinkling of water at least (2x) twice a day during dry season • Vehicles transporting aggregates/ construction materials should be adequately covered with tarpaulin canvass or jute sacks at all times 	100% compliance to RA 8749
Generation of noise due to operation/ construction <i>(for crushing plant)</i>	<ul style="list-style-type: none"> • Use of mufflers, silencer, and exhaust pipes for construction equipment • Provision of appropriate noise mitigating measures (such as construction of fences, enclosure of stationary work areas and equipment, maintenance of equipment, etc.) whenever applicable 	100% Noise within standard (NPCC MC 002 Series of 1980)
Generation of spoils such as excess fill materials from grading and excavation activities <i>(for crushing plant)</i>	<ul style="list-style-type: none"> • Excess spoils to be hauled by third party hauler for proper disposal • Trucks should be thoroughly washed before leaving the project site to avoid the transfer of mud/dirt in the road • Spoils shall be stockpiled on flat areas and away from the adjacent access roads, drainage routes and nearby water body 	100% RA 9003
Generation of construction debris <i>(for crushing plant)</i>	<ul style="list-style-type: none"> • Proper collection of construction debris Solid Waste Management Program in compliance to RA 9003 • Collection of construction debris by third party hauler with valid permit/clearance from LGU 	100% RA 9003
Generation of used oil, batteries, and other hazardous materials <i>(for crushing plant)</i>	<ul style="list-style-type: none"> • Provision of storage for hazardous wastes with proper labelling • Collection of hazardous wastes by DENR accredited 3rd party hauler and treater 	100% compliance to RA 6969
B. Operational Phase		
B.1 Delivery and transfer of raw (SAG) materials and finished goods, processing Administrative Operation and other Facilities for with crushing project		
Degradation of surface water quality due to contamination from domestic wastewater <i>(with crushing plant)</i>	<ul style="list-style-type: none"> • Provide (indicate number) of portalets for construction workers <i>Note: at least one (1) portalet for 25 workers where the number of male workers exceeds 100 (as per IRR- Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)</i> • Provision of temporary septic tank or wastewater collection system for workers <p>Hauling of wastewater from portalets/septic tank by third party shall be covered by a licensed/permit from LGU and with valid</p>	100% complaint with RA 9275



	Discharge Permit for the wastewater treatment facility	
Degradation of surface water quality due to contamination from oil, fuel or other lubricant agents leaks from heavy equipments	<ul style="list-style-type: none"> • Provision of spill boom; • Use of properly maintained heavy equipment 	100% complaint with RA 9275
Potential siltation (turbidity) during Extraction	<ul style="list-style-type: none"> • Provision of temporary sand barrier from the active site/area of extraction (if applicable); • Provision of silt curtain (if applicable) • Appropriate method of extraction as identified by MGB 	100% complaint with RA 9275
Generation of Process Wastewater (<i>with Crushing</i>)	<ul style="list-style-type: none"> • Provision of Settling Pond in Series (at least 3 chamber) • Provision of Drainage Canal 	100% compliance with RA 9275
Generation of noise from equipments (crushers, screens etc.)	<ul style="list-style-type: none"> • Provision of enclosures or muffling devices on engines and equipment • Use of sound absorbing liners (e.g. rubber) • Daytime operation only, or secure permit/clearance from concerned barangay if operating at night-time 	100% Noise within standard (NPCC MC 002 Series of 1980)
Generation of air pollutants from delivery trucks/ generator set	<ul style="list-style-type: none"> • Use of mufflers, silencer, and exhaust pipes; 	100% compliance with RA 8749
Generation of solid wastes	<ul style="list-style-type: none"> • Provision of Materials Recovery Facility (MRF) • Segregation of wastes with proper labelling, and wastes materials manifest indicating the volume of waste and date of collection/segregation • Hauling of domestic wastes by third party contractor with permit/clearance from LGU for proper disposal of wastes. • Compost materials (if any) shall be made available to community for distribution through its Corporate Social Responsibility (CSR) 	100% compliant to RA 9003
Generation of used oil (from motorpool) and other hazardous materials (ie. used batteries, fluorescent lamps) (with Crushing)	Provision of storage facility/area and collection of hazardous wastes by DENR accredited 3 rd party hauler and treater	100% compliant to RA 6969



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Generation of hazardous wastes (with Crushing)	<ul style="list-style-type: none">• Provision of storage facility/area and collected by hazardous wastes DENR accredited third party hauler and treater• Provision of PPE for proper handling	100% compliant to RA 6969
Generation of Used Oils from heavy equipment	<ul style="list-style-type: none">• Proper disposal of generated used oils	100% compliant to RA 6969
Riverbank Erosion/Scouring	<ul style="list-style-type: none">• Planting of Bamboos or applicable tree species along nearest riverbank, disturbed areas, or in steep slopes to prevent soil erosion• Uniform depth method of SAG Extraction• Provision of buffer zone to protect the riverbank	100% No erosion caused by the project
Impacts on Infrastructure (Bridges and Irrigation Canals)	<ul style="list-style-type: none">• No extraction within one (1) kilometer radius from any government infrastructure project(s)	
Generation of effluents due to wastewater generation	<ul style="list-style-type: none">• Monitoring of the following significant effluent quality parameters: <input checked="" type="checkbox"/> Total Suspended Solids	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)

II. GENERAL CONDITIONS

1. That the proponent shall ensure that the project implementation shall **NOT COMMENCE** unless all required/clearances from the concerned government agencies are secured. EMB shall be advised when all the permits/clearances are secured and when will be the actual date of project implementation;
2. The proponent shall comply with all the provisions of RA 9275, the Philippine Clean Water Act of 2004 and its Implementing Rules and Regulations;
3. The proponent shall install and maintain air pollution control devices to minimize dust and gas emissions from different sources. Likewise the proponent shall ensure that emissions at all times comply with the DENR standards and with all the provisions of RA 8749, the Philippine Clean Air Act of 1999 and its Implementing Rules and Regulations;
4. The proponent shall install, operate, and maintain collection, handling, treatment, storage and disposal facilities or any system serving different sources of hazardous waste. The system shall be properly operated to ensure compliance with all the provisions of RA 6969, the Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 and its Implementing Rules and Regulations;
5. The proponent Install, operate and maintain collection, handling, treatment, storage and disposal facilities or any system serving different sources of solid waste. The system shall be properly operated to ensure compliance with all the provisions of RA 9003, the Ecological Solid Waste Management Act of 2000 and its Implementing Rules and Regulations;
6. Planting of appropriate tree species shall be undertaken in coordination with DENR CENRO in



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support to National Greening Program of the DENR to compensate for the loss of vegetation. Replacement of trees shall follow the following ratio: 50 trees for one (1) planted tree cut and 100 trees for one (1) naturally growing tree cut.

7. Stockpiling of aggregates shall not be allowed on the riverbed and shall be done only on the designated areas, stockpiled in low mounds and away from the riverbanks;
8. No diversion of the flow of the river shall be undertaken or any construction that would reduce the width of the river channel, constrict or impede the flow of water (including the construction of access roads)
9. Submit certification from DPWH/NIA that the project area is outside the 1-kilometer radius from the boundaries of reservoirs and of any public/private structures prior to project implementation;
10. That the proponent shall set-up a competent Environmental Unit (EU) with a Pollution Control Officer, within six (6) months from issuance of this Certificate and shall be duly accredited by this Office in accordance with DAO No. 02, series of 2014 (Revised Guidelines for Pollution Officer Accreditation). The Environmental Unit (EU) shall competently handle the environment-related aspects of the project. In addition to the monitoring requirements as specified in the Environmental Management Plan/ Environmental Monitoring Plan, the EU shall have the following responsibilities:
 - 10.1. Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the Generic IEE Checklist Report;
 - 10.2. Recommend revisions to the EMP/EMoP, whenever necessary subject to the approval of EMB-4B (MIMAROPA Region);
 - 10.3. Ensure that data gathered during monitoring activities are properly documented, assessed, evaluated and reported to EMB-4B (MIMAROPA Region) in accordance with the standard formats;
 - 10.4. Ensure that monitoring and submissions of reports to EMB-4B (MIMAROPA Region) are carried out as required;
 - 10.5. Regular submission of the following reports:
 - 10.5.1. A semi-annual ***ECC Compliance Monitoring Report*** within fifteen (15) days at the end of each semi-annual reporting period. The CMR must be provided with supporting documents and in accordance with the prescribed format stipulated in the Implementing Rules and Regulations of P.D. 1586;
 - 10.5.2. Submit a ***Quarterly Self-Monitoring Report*** within fifteen (15) days at the end of each quarter. The SMR must be in accordance with the prescribed format of the ***Self-Monitoring Report (SMR)*** pursuant to DAO 2003-27;
11. The proponent shall submit an Abandonment Plan to the EMB Regional Office at least six (6) months prior to project abandonment. The plan shall include rehabilitation measures/clean-up, remediation of areas affected by the project and proposed alternative projects in the area;
12. That should there be any unwarranted destruction (from the scouring of the riverbank) of the adjacent private property / land, etc. brought about by the project implementation, the same shall be reported immediately to this office or to the nearest CENRO within 24 hours and the operation causing the same shall be automatically stopped. Likewise, restoration/mitigation or compensation shall be carried out by the proponent and a report of such restoration/mitigation or compensation shall be submitted to this office for evaluation and determination whether the operation shall be allowed to continue or not based on the environmental conditions;



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13. That there shall be no screening and/or washing of quarry materials within the streambed to avoid siltation and turbidity of water. Likewise, no stockpile shall be left at the streambed during extraction to avoid obstruction of water flow;
14. The proponent shall provide “one entry” and “one exit” for its operation and shall install a Closed-Circuit Television (CCTV) connected to the server of EMB Regional Office concerned;
15. That the proponent shall strictly manage all project related traffic problems, excessive surface runoff, dust, soil erosion, accidental spillage and health hazards identified in the 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;
16. 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;
17. That the quarry site, with respect to the survey plan submitted, shall be delineated with visible permanent markers.
18. 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;
19. That a billboard containing this message: **“Notice to the Public, QUARRY/LEASE - GRAVEL AND SAND PROJECT OF ARLENE V. CORTUNA, has been issued an Environmental Compliance Certificate (ECC-OL-R4B-2022-0098) by the Department of Environment and Natural Resources – Environmental Management Bureau MIMAROPA Region on June 20, 2022.”** 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;
20. 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;
21. That the proponent shall submit monthly drone shots of the activity area (Operation Phase);
22. The proponent shall provide “one entry” and “one exit” for its operation and shall install a Closed-Circuit Television (CCTV) connected to the server of EMB Regional Office concerned;
23. 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.

III. RESTRICTIONS

24. No other activities shall be undertaken other than what was stipulated in the IEEC document. Any expansion or modification of the Project beyond the project description or any change in the activity shall be subject to a new EIA study;
25. That all recommendations cited in the submitted MGB-accepted/approved Geological Assessment Report (GAR) shall be undertaken at all phases of the project implementation;



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26. That a limit of extraction shall NOT exceed to the slope/gradient identified in the MGB-accepted/approved Geological Assessment Report (GAR) and strictly within the approved quarry site. Monthly report of extraction shall be incorporated in the quarterly and semi-annual monitoring reports (SMR and CMR);
27. That the proponent shall maintain a uniform depth of extraction at any given time on the approved area;
28. In case of transfer of ownership of this Project, these same conditions and restrictions for which written notification must be made by herein grantee to EMB within fifteen (15) working days from such transfer; and
29. That the proponent (**ARLENE V. CORTUNA**) 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.



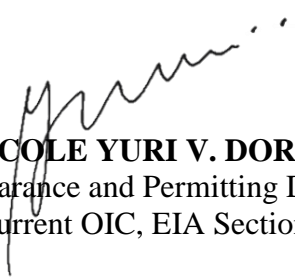
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PROJECT ASSESSMENT PLANNING TOOL

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, the following recommendations are forwarded to the parties and authorities concerned for appropriate action.

Regulatory Conditions	
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 & DAO 97-05;	DOH DOLE-Bureau of Working Conditions Municipal Planning & Dev't. Office/Building Official/BFP/LGU Concerned DENR Sector concerned
2. That all appropriate construction, operational and resource-use permits/clearances from other national and local government agencies concerned shall be secured pertaining to the implementation of the project. Likewise, the proponent shall notify this Office of the reckoning date of project operation.	(i.e. PMRB, PNP, LGUs, DPWH, DOH, NWRB, HLURB, MGB, DA, DAR, DOLE, DTI, etc.)
Environmental Planning Recommendations for the Proponent	
1. 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.	Proponent

For the dissemination and proper action of the agencies concerned.


ENP. NICOLE YURI V. DORADO
OIC, Clearance and Permitting Division
and concurrent OIC, EIA Section


JOE AMIL M. SALINO
Regional Director



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