



**ENVIRONMENTAL COMPLIANCE CERTIFICATE**

(Issued under Presidential Decree 1586)

**ECC-NCR-2305-0004**

THIS IS TO CERTIFY THAT THE PROponent, **PHILIPPINE SCIENCE HIGH SCHOOL-MAIN CAMPUS**, represented by its Campus Director, Lawrence V. Madriaga, Ph.D, is granted this Environmental Compliance Certificate (ECC) for the **PSHS-Main Campus Expansion Project** located in a 75,054 square meter lot in Agham Road, Brgy. Bagong Pag-asa, Diliman, Quezon City, by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau-National Capital Region.

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

This Certificate is issued with the following details:

**PROJECT DESCRIPTION**

The project is a **School Campus** with a total/gross floor area of 101,231.70 square meters.

Its area allocations are as follows:

<b>Particular</b>	<b>Total Floor Area (sq.m.)</b>
3-Storey Administration Building	2,996.59
4-Storey Science and Humanities Building (SHB) Extension 1 & 2	11,687.39
6-Storey Academic Building for Senior High School (ABSHS)	9,532.01
3-Storey Office of the Executive Director (OED)	2,441.047
3-Storey Advanced Science & Technology Building	3,490.04
3-Storey Girls' Residence Hall Main (GRHM)	1,959.11
3-Storey Boys' Residence Hall Annex 2	1,527.45
3-Storey Boys' Residence Hall (BRHM)	1,959.11
3-Storey Boys' Residence Hall Annex 1	1,527.45
2-Storey Multi-Purpose Gymnasium	7,868.36
Open Space (including power house and guard houses)	47,322.94
Animal House	122.26
Maintenance Shop	98.27
Parking Lots	1,848.80
Track and Field Oval	5,535.27
Constructed Wetlands	607.87
Material Recovery Facility	12.00
Concreted, lined and covered Aranan Creek	545.78
Sewage Treatment Plant with design capacity of 180 cubic meters per day	150.00
<b>TOTAL/GROSS FLOOR AREA</b>	<b>101,231.747</b>

As per Annex "A" of EMB MC 005 Series of 2014, the project falls under item 3.6.2 and considered as Category B (Non-ECP)/EIS.

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 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 (Php50,000.00) for every violation thereof without prejudice to imposition of fines and penalties under other environmental laws. The EMB-NCR, however, is not precluded from reevaluating and correcting any deficiencies or errors that may be found after issuance of this Certificate.

Issued at EMB-NCR, National Ecology Center Compound, East Avenue, Diliman, Quezon City this MAY 31 2023.

Recommending Approval:

  
**ENGR. WILMAR R. UYACO**  
Chief, Clearance & Permitting Division

Approved:

  
**ATTY. MICHAEL DRAKE P. MATIAS**  
Regional Director



Department of Environment and Natural Resources  
Environmental Management Bureau  
National Capital Region  
NCR-2022-043343

Office of the Regional Director



PHILIPPINE SCIENCE HIGH SCHOOL-DILIMAN  
PERMIT



## I. CONDITIONS

**ENVIRONMENTAL MANAGEMENT**

All commitments, mitigating measures and monitoring requirements, contained in the Environmental Performance Report and Management Plan (EPRMP) for the **PSHS-MAIN CAMPUS EXPANSION PROJECT**, particularly in the Environmental Management Plan/Environmental Monitoring Plan, including any modifications and/or additional information as approved by the EMB-NCR, shall be instituted to minimize any adverse impact of the project to the environment throughout its implementation, which shall include among others to wit:

<b>POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE</b>	<b>MITIGATING MEASURES</b>	<b>RATING/ PERFORMANCE OF MITIGATING MEASURES</b>
<b>A. Construction Phase</b>		
A.1 Site Development including minor excavation		
Generation of dust from site preparation	<ul style="list-style-type: none"> <li>Maintain a wet access road surface/project site by sprinkling water at least twice (2x) a day during dry season</li> </ul>	100% no dust generation
Potential siltation of nearby bodies of water due to soil erosion	<ul style="list-style-type: none"> <li>Provision of sediment control measures such as sediment traps, slope stabilization, etc.</li> <li>Provision of an easement from water bodies at least three (3) meters in urban areas.</li> </ul>	100% no siltation of nearby bodies of water
Degradation of surface water quality due to contamination from domestic wastewater	<ul style="list-style-type: none"> <li>Provision of portalets for construction workers <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></li> <li>Provision of septic tank or wastewater collection system for workers</li> <li>Hauling of wastewater from portalets/septic tank by third party contractor with licensed/permit from LGU and with valid Discharge Permit for wastewater treatment facility</li> </ul>	100% no discharge of domestic wastewater to nearby bodies of water
<b>A.2 Delivery of Construction Materials to project site</b>		
Noise pollution from delivery trucks	<ul style="list-style-type: none"> <li>Use of mufflers and exhaust silencers</li> </ul>	100% Noise within standard
<b>A.3 Construction of Buildings</b>		
Generation of noise from heavy equipment	<ul style="list-style-type: none"> <li>Use of mufflers and exhaust silencers for construction equipment</li> </ul>	100% Noise within standards



<b>POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE</b>	<b>MITIGATING MEASURES</b>	<b>RATING/ PERFORMANCE OF MITIGATING MEASURES</b>
Generation of spoils (including excavated soils)	<ul style="list-style-type: none"> <li>Provision of appropriate noise mitigating measures (such as construction of fences, enclosure the of stationary work areas and equipment, maintenance of equipment, etc.) whenever applicable.</li> <li>Excavated materials shall be properly stockpiled and properly disposed or reused. Excess soil materials shall not be deposited along areas traversed by runoff and away from waterways and valuable crops. The proponent shall identify stockpile sites (with geographical coordinates)</li> <li>Spoil materials will be hauled by third party hauler with approved permit/clearance from LGU or the proponent should identify disposal sites (with geographical coordinates)</li> <li>Trucks shall be thoroughly washed before leaving the project site to avoid the transfer of mud/dirt in the road</li> <li>Use of spoils as fill materials in lower areas subject to the approval of LGU</li> </ul>	100% no spoil materials will be left unattended and no mud/dirt will be transferred in the road
Generation of construction debris	<ul style="list-style-type: none"> <li>Segregation and collection of construction debris in compliance with RA 9003</li> <li>Hauling of construction debris by 3<sup>rd</sup> party hauler</li> </ul>	100% collected/hailed construction debris
Generation of used oil, paint, batteries, and other hazardous materials	<ul style="list-style-type: none"> <li>Provision of storage for hazardous wastes with proper labelling</li> <li>Collection of hazardous wastes by DENR accredited 3<sup>rd</sup> party hauler and treater</li> </ul>	100% compliance to RA 6969
Traffic congestion due to frequent movement of construction vehicles	<ul style="list-style-type: none"> <li>Side street parking will not be allowed at adjacent roads at all times.</li> <li>Provision of adequate parking spaces within the property for construction vehicles</li> </ul>	100% compliance to traffic rules and regulations

100%



POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES
<b>B. Operational Phase</b>		
B.1 Operation and maintenance of facilities		
Contamination of surface water from the discharges due to the operation of the school campus	<ul style="list-style-type: none"> <li>Proper operation and maintenance of efficient Sewage Treatment Plant (STP) with design capacity of at least 180 cu.m per day.</li> </ul>	100% conformance with the effluent standards
Generation of non-hazardous solid wastes including domestic wastes	<ul style="list-style-type: none"> <li>Mandatory segregation of wastes through the use of MRF including composting area</li> <li>Hauling of solid wastes by third party hauler with permit/clearance from LGU</li> </ul>	100% conformance with RA 9003
Degradation of air quality due to use of generator set <i>(if any)</i>	<ul style="list-style-type: none"> <li>Regular maintenance of the generator set</li> </ul>	100% compliance with RA 8749
Traffic congestion due to movement of vehicles going to/from the campus	<ul style="list-style-type: none"> <li>Implement Traffic Management Plan.</li> <li>Side street parking will not be allowed at adjacent roads at all times.</li> </ul>	100% compliance to traffic rules and regulations
Generation of busted lamps and other hazardous materials	<ul style="list-style-type: none"> <li>Provision of centralized storage facility/area and collected by hazardous wastes DENR accredited 3<sup>rd</sup> party haulers/treaters.</li> <li>Hazardous waste generation ID shall be secured from EMB.</li> </ul>	100% compliant with RA 6969
Generation of effluents due to wastewater generation	<ul style="list-style-type: none"> <li>Monitoring of the following significant effluent quality parameters (based on PSIC Code 681): <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> BOD</li> <li><input checked="" type="checkbox"/> Fecal Coliform</li> <li><input checked="" type="checkbox"/> Ammonia</li> <li><input checked="" type="checkbox"/> Nitrate</li> <li><input checked="" type="checkbox"/> Phosphate</li> <li><input checked="" type="checkbox"/> Oil and Grease</li> <li><input checked="" type="checkbox"/> Surfactants</li> </ul> </li> </ul>	100% compliance with DENR effluent standards (RA 9275); (i.e. DAO 2016-08 and DAO 2021-19)

### GENERAL CONDITIONS

- The proponent shall comply with all the provisions of RA 9275, the Philippine Clean Water Act of 2004 and its Implementing Rules and Regulations;
- The proponent shall install and maintain air pollution control devices to minimize dust and gas emissions from different sources. Impose speed limit and conduct daily road watering. 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;

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3. The proponent shall install, operate, and maintain a collection, handling, treatment, storage and disposal facilities or any system serving different sources of hazardous waste that shall serve as temporary storage prior to hauling of a service provider. 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;
4. The proponent shall 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;
5. That planting of native tree species/ornamental plants shall be undertaken to mitigate greenhouse gas (GHG) emissions of the project in line with the DENR's thrust for GHG emissions reduction programs and National Greening Program in coordination with DENR-NCR;
6. A rainwater harvesting storage tank/cistern shall be installed to maximize recycling, distribution and utilization of water and to store and capture rainwater as additional measures in water resources management, respectively;
7. The proponent shall designate a PCO and secure accreditation at the EMB-NCR within six (6) months from the issuance of this ECC who shall take charge on the environmental concerns of the project;
8. The proponent shall submit an Abandonment Plan to the EMB-NCR 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;
9. Implement a Comprehensive Social Development Program (SDP) and submit a separate report together with the Compliance Monitoring Report (CMR) to the EMB-NCR on a semi-annual basis for the proposed project;
10. That the project proponent shall allow EMB-NCR personnel with mission/travel order to monitor compliance with conditions and restrictions stated herein;

## II. RESTRICTIONS

11. Include and utilize the 9% open space or 6,754.86 sq.m. allocation of the total project area as green area or landscaped area for indigenous or adaptable species of grass, shrubs and trees to help in providing more permeable surface as per DENR-EMB Memorandum re: "Open Space Requirement of Environmental Compliance Certificate (ECC) for Land Development Project" dated 16 June 2015 and The Philippine Green Building Code of June 2015.

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12. The proponent shall coordinate with other concerned Government Agencies in the management of the project and shall implement only after securing all the necessary and relevant permits from other pertinent Government Agencies;
13. Project implementation shall not commence without an approved Traffic Impact Management Plan from MMDA/LGU based on proponent's Traffic Impact Assessment;
14. Project implementation shall not commence without an approved Geological Verification Report (GVR) from DENR-MGB pursuant to DAO 2000-28 dated 14 March 2000.
15. Implementation/operation of the project shall not commence without the adequate STP to treat its wastewater including that from laundry activities that conforms with the Effluent Standards has been installed and operational;
16. The proponent shall not discharge wastewater unless the same is conveyed and treated in an adequate STP. Any discharge of untreated or partially treated wastewater will warrant an imposition of fine in an amount from P23,579.48 to Php471,589.54 per day pursuant to RA 9275;
17. No other activities shall be undertaken other than what were stipulated in the EPRMP. Should there be any expansion of the project beyond the project description or any change in the activity or transfer of location shall be subject to a new Environmental Impact Assessment;
18. In case of transfer of ownership of this Project, these same conditions and restrictions shall apply, the new owner/transferee shall within thirty (30) days from such change apply for the amendment of this ECC. <sup>1000</sup>

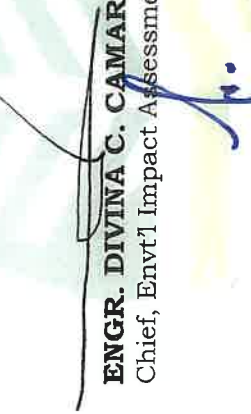


**PROJECT ASSESSMENT PLANNING TOOL**

For the assistance of the Proponent and the 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, these recommendations shall be forwarded to the parties and authorities concerned for appropriate action.

<b>Environmental Planning Recommendations and Regulatory Requirements for the Proponent</b>
<p><b>Local Government Unit (LGU)</b></p> <ol style="list-style-type: none"> <li>1. The proponent shall give priority employment to qualified local residents. Adequate public information for jobs available to local residents in the affected areas shall be provided;</li> <li>2. The proponent shall comply with the National Building Code and Sanitation Code of the Philippines;</li> <li>3. The proponent shall coordinate with the concerned LGU for the implementation of Solid Waste Management Plan;</li> <li>4. Develop a traffic management plan and coordinate for the traffic management in the area vis a vis the traffic impact assessment report to address the project's contribution to local traffic;</li> <li>5. Construct an appropriate drainage system to mitigate/abate the effects of flooding to adjacent areas;</li> </ol>
<p><b>DENR-Forest Management Bureau (FMB)</b></p> <ol style="list-style-type: none"> <li>6. The proponent shall secure tree cutting permit, if any.</li> </ol>
<p><b>DOLE - Bureau of Working Condition</b></p> <ol style="list-style-type: none"> <li>7. The proponent shall comply with the Labor Code of the Philippines</li> <li>8. Provide PPEs for the workers if their work requires so;</li> <li>9. Personnel and workers hired shall as much as possible be sourced locally or within the host community pursuant to Department Order 2021 Series of 2021;</li> </ol>
<p><b>BFP - Bureau of Fire Protection</b></p> <ol style="list-style-type: none"> <li>10. The proponent shall comply with the fire safety protection requirements of the Fire Code of the Philippines;</li> </ol>
<p><b>MGB- Mines and Geosciences Bureau</b></p> <ol style="list-style-type: none"> <li>11. Adhere with the conclusion and recommendation in the Engineering Geological and Geohazard Assessment Report (EGGAR) and subject to Geological Verification Report (GVR);</li> </ol>
<p><b>DHSUD- Department of Human Settlements and Urban Development</b></p> <ol style="list-style-type: none"> <li>12. Ensure compliance to DENR-EMB Memorandum re: Open Space requirement of ECC for Land Development Projects</li> </ol>

  
**RIZA C. ARJONA**  
 Sr. Env'tl Management Specialist

  
**ENGR. DIVINA C. CAMARAO**  
 Chief, Env'tl Impact Assessment Section

  
**ENGR. WILMA R. UYACO**  
 Chief, Clearance & Permitting Division

  
**ATTY. MICHAEL DRAKE P. MATIAS**  
 Regional Director

  
**ENGR. EMILIANO P. KEMPIS, JR.**  
 Chairman, EIA Review Committee





**SWORN ACCOUNTABILITY STATEMENT**

I, **Lawrence V. Madriaga, Ph.D.**, Campus Director, representing **Philippine Science High School-Main Campus** with office address located at Agham Road, Brgy. Bagong Pag-asa, Diliman, Quezon City, takes full responsibility in complying with all conditions in this Environmental Compliance Certificate (ECC).


  
**LAWRENCE V. MADRIAGA**

**JUN 30 2023**

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

Notary Public

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Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

  
**ATTY. CONCEPCION P. VILLARENA**  
Notary Public for Quezon City  
Until December 31, 2023  
**PTR No. 3716371 / January 3, 2023 O.C**  
**IBP No. 167603 / November 25, 2021 Q.C**  
Roll No. 30457 / 05-09-1960  
MCLE VII-0006994 / 09-21-2021  
**ADM. MATTER No. NP-005 (2022-2023)**  
**TIN NO. 131-942-754**

