MAY 15 2017

ECC Reference Code: ECC-R4A-1704-0131

MR. PATRICK B. GATAN, CESO III
President
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)
DPWH Region IV-A
Edsa Kamuning, Diliman, Quezon City 1100

SUBJECT: ENVIRONMENTAL COMPLIANCE CERTIFICATE

Dear Mr. Gatan:

This has reference to your Environmental Compliance Certificate (ECC) application for your CAVITE INDUSTRIAL AREA FLOOD MANAGEMENT PROJECT located at San Juan River Basin and Maalimango Creek within the boundaries of the Municipalities of Imus, Kawit, Rosario, Noveleta, and General Trias City, Province of Cavite. Please be informed that after evaluation of the documents submitted on the aforesaid project, this Office has decided to grant your application for ECC which is hereto attached.

In issuing this CERTIFICATE, it should be understood that the same is a PLANNING TOOL and NOT A PERMIT. It is expected that you will diligently secure pertinent PERMITS/CLEARANCES from all concerned government agencies pertaining to the implementation of your project. With the issuance of this ECC, you are expected to strictly implement the measures presented in the Environmental Impact Statement (EIS) Report intended to protect and mitigate the project’s adverse impacts on community health, welfare and the environment. Environmental considerations should be incorporated in all phases and aspects of your project.

The DENR/EMB will be monitoring the project periodically to ensure your compliance with stipulations cited in the attached ECC. Finally, any expansion or modification of currently approved plans will be subjected to new Environmental Impact Assessment (EIA) requirements.

For your information and guidance.

Very truly yours,

DIR. NOEMI A. PARANADA
OIC-Regional Director
ENIRONMENTAL COMPLIANCE CERTIFICATE
(Issued under Presidential Decree 1586)
ECC-R4A-1704-0131

THIS IS TO CERTIFY THAT THE PROONENT, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) is granted with this Environmental Compliance Certificate (ECC) for CAVITE INDUSTRIAL AREA FLOOD MANAGEMENT PROJECT located at San Juan River Basin and Maalimango Creek within the boundaries of the Municipalities of Imus, Kawit, Rosario, Noveleta, and General Trias City, Province of Cavite by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB), CALABARZON Region.

This Certificate being issued for the project, with the following details:

PROJECT DESCRIPTION

The Cavite Industrial Area Flood Management Project shall cover a total area of Eighty Six and 1/10 (86.1) square meters and a length of Fourteen and 9/10 (14.9) kilometers of San Juan River Basin and Maalimango Creek located within the boundaries of the Municipalities of Imus, Kawit, Rosario, Noveleta, and General Trias City, Province of Cavite.

The project activities shall include the following: River improvement in San Juan River Basin (river improvement works of San Juan River, Rio Grande River, and Ylang-Ylang River, construction of diversion channel from the confluence of Rio Grande and Ylang Ylang rivers to Manila Bay), drainage improvement at Maalimango Creek (dredging and widening of Maalimango Creek and construction of diversion drainage) and construction and improvement of bridges.

<table>
<thead>
<tr>
<th>Project Activities</th>
<th>Municipalities/Barangays</th>
<th>Area (Hectares)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. San Juan Diversion Channel</td>
<td>Noveleta: - Salcedo I - Salcedo II - Sta. Rosa I - Sta. Rosa II - San Rafael I - Poblacion</td>
<td>28.72</td>
<td>- 2.5 kilometer length (Sta. 0+000-2+457), approx. 100 meters width (89-115 m), 3 meters depth, 2 meters high revetment on each side. - Excavation for diversion canal - Dike embankment - Concrete Block Slope Protection - Foot protection - Dredging - Fixed weir</td>
</tr>
</tbody>
</table>

ECC-R4A-1704-0131
Cavite Industrial Area Flood Management Project
Department of Public Works and Highways (DPWH)

6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
Rd’s Office 536-2808; 536-3095; Telefax No. 536-9784; Admin/Finance Division Telefax No. 404-1610
PC Division 525-0348; 404-1610; EIA Division Telefax No. 522-8177
E-mail Address: emb_r4a@denr.gov.ph
<table>
<thead>
<tr>
<th>Project Activities</th>
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<th>Area (Hectares)</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2. Rio Grande River Improvement    | General Trias:  
- Bacao I  
- Prinza  
- Poblacion  
- Sta. Clara  
- Pasong  
- Camachile  
- Pinagtipunan  
- Tapia | 22.90 | 1.6 kilometer length (Sta. 4+808-6+389), 35 meters width  
2.6 kilometer length (Sta. 10+600-13+200), 36 meters width  
Revetment reinforcement  
River excavation (soil)  
River excavation (soft rock)  
Concrete block slope protection  
Foot protection |
| 3. Ylang Ylang River Improvement   | Noveleta:  
- San Antonio II  
Kawit:  
- San Sebastian  
Imus:  
- Alapan II-A | 14.23 | 2.8 kilometer length (Sta. 0+000-2+787), 33 meters width on average (30-42 m)  
Revetment reinforcement  
River excavation (soil)  
River excavation (soft rock)  
Concrete block slope protection  
Foot protection |

**Drainage Facilities**

|                     | Rosario:  
- Ligtong III  
- Bagbag I  
- Tejeros Convention | 11.3 | 2.0 kilometer length (Sta. 1+000-3+000), 11.2 to 27.5 meters width  
Widening, dredging  
Drainage channel widening  
Concrete block slope protection  
Sluice gate |
|---------------------|-------------------------------------------------|----------|--------------------------------------------------|
| 2. Diversion Drainage I | Rosario:  
- Ligtong I  
- Ligtong II | 2.48 | 1.0 kilometer length (Sta. 0+000-0+955), approx. 28 meters width  
Excavation for diversion channel  
Concrete block slope protection |
| 3. Diversion Drainage II | General Trias:  
- Tejero  
- Bacao II | 7.80 | 3.5 kilometer length (Sta. 0+000-3+520)  
Narrow width of 5 meters + 5 meters buffer |
<table>
<thead>
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<th>Area (Hectares)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridges</td>
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<tr>
<td>Improvement of bridges</td>
<td>Road name:</td>
<td></td>
<td>Replacement of Two (2) existing bridges</td>
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<tr>
<td></td>
<td>- Mercury</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction of bridges</td>
<td>Road name:</td>
<td></td>
<td>Construction of at least Five (5) additional bridges</td>
</tr>
<tr>
<td></td>
<td>- Gen. Antonio</td>
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<td></td>
<td>- A. Soriano</td>
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<td></td>
<td>- Nawasa</td>
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<td></td>
<td>- Marseilla</td>
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<td></td>
<td>- J. Luna</td>
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</tbody>
</table>

This Certificate 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 (i.e. HLURB, NWRB, LGUs, DOT, DOH, DTI, DOLE, DPWH, DOTr, LWUA, DA, DAR, DOE, MGB, PMRB, PCA, NIA, etc.) prior to the implementation of the project to be submitted to this Office within sixty (60) working days upon receipt thereof; otherwise this Office shall be constrained to take appropriate legal action. The issuance of the ECC shall not be construed as resolving issues within the mandate of other government agencies.

Issued at EMB-CALABARZON Region this MAY 15 2017.

Recommendng Approval:  

ROBERT ANGELO M. METIN  
OIC, Clearance and Permitting Division

Approved by:  

DIR. NOEMI A. PARANADA  
OIC Regional Director

ECC-R4A-1704-0131  
Cavite Industrial Area Flood Management Project  
Department of Public Works and Highways (DPWH)
SWORN STATEMENT OF OWNER/PROPONENT

Under the provisions of Presidential Decree 1586, I, PATRICK B. GATAN, CESO III do hereby certify that the information provided to the Department of Environment and Natural Resources (DENR) – Environmental Management Bureau (EMB), CALABARZON Region pertaining to the Cavite Industrial Area Flood Management Project located at San Juan River Basin and Maalimango Creek within the boundaries of the Municipalities of Imus, Kawit, Rosario, Noveleta, and General Trias City, Province of Cavite are true and correct to the best of my personal knowledge and based on the records in my possession. Hence, I shall take full responsibility in complying with all conditions and restrictions contained in this Environmental Compliance Certificate (ECC).

PATRICK B. GATAN, CESO III
Project Director UPMO-Flood Control
Management Cluster
DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS (DPWH)
TIN: 32-997-395

Attested by:

ROBERT ANGELO M. METIN
OIC, Clearance and Permitting Division

SUBSCRIBED AND SWORN TO before me this ___________, the above-named affiant taking oath presenting his Government issued - ID No. ________
issued on __________________ at __________________

NOTARIZING OFFICER

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ECC-R4A-1704-0131
Cavite Industrial Area Flood Management Project
Department of Public Works and Highways (DPWH)
I. CONDITIONS

ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

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

1. That re-greening/landscaping and planting of native tree species shall be established within the periphery of the project site to help attenuate noise levels, abate heat and absorb some pollutant emissions.

2. That the proponent shall strictly manage all operational, external, chemical, spillage, traffic, process, siltation, erosion, excessive surface run-off, dust, and occupational & health hazards identified in the Environmental Impact System (EIS) Report and, in case of emergency episodes, appropriate response activities shall be immediately undertaken for the protection of the workers/personnel, nearby communities and the receiving environment.

3. That effective and adequate drainage system and wastewater treatment facility (WWTF) for all its domestic effluents shall be provided. All liquid wastes shall be properly treated and shall not exceed DENR Effluent Standards. Submission of plans and specifications for its WWTF one (1) month upon receipt of ECC with a timetable of construction for six (6) months.

4. That proper Air Pollution Source and Control Installations (APSCI) shall be provided by the proponent to avert pollutant emission.

5. That the proponent shall properly implement the following:

   5.1 Effective Information, Education and Communication (IEC) Plan shall be implemented in all project phases including communication of environmental risks of the project.

   5.2 Beneficial Social Development Program (SDP) among the employees/workers, host barangay and affected communities which shall cover livelihood training and employment, including assistance in setting-up of social welfare programs for health and education that will ensure the participation of youth and women.

   5.3 Appropriate wastes management scheme as provided in the Environmental Management Plan (EMP) shall be continuously implemented.

   5.4 Portalets/temporary sanitation facilities shall be provided before the start and during the construction works.

6. That proper health and sanitation practices shall be observed in all phases/stages of the project and safety & personnel protective equipment/gadgets shall always be provided to the personnel within the premises of the project site to prevent health and occupational hazards.

7. That in support of the concern of the government to phase-out mercury from all possible sources and to address global warming, the proponent shall install environment-friendly lighting fixtures (i.e. light-emitting diode lamps, compact fluorescent lamps, etc.).
GENERAL CONDITIONS

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


9. That the proponent shall set-up a competent Environmental Unit and shall be duly accredited by this Office in accordance with DAO No. 2014-02, series of 2014 (Revised Guidelines for Pollution Control Officer Accreditation). 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) such as but not limited to the following:

9.1 Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the EIS Report.

9.2 Regular submission of a semi-annual ECC Compliance Monitoring Report (on or before January 15 and July 15 of each year the project is implemented) pursuant to P.D. 1586 and its Implementing Rules and Regulations (DAO 2003-30).

9.3 Ensure that all post-assessment permits/clearances from other concerned government agencies are secured and in place relative to the implementation of the project.

9.4 Submit a quarterly environmental monitoring report using the prescribed format of the Self-Monitoring Report (SMR) pursuant to DAO 2003-27.

9.5 Submit an Abandonment Plan two (2) months prior to abandonment activities. It shall include rehabilitation measures, costs, remediation of areas possibly contaminated with hazardous substances and presentation of options on proposed alternative projects in the area.

10. That the proponent shall engage the services of a third party auditor to conduct a semi-annual environmental audit to the project and to determine that the environmental performances conform/comply with the submitted EPRMP, and other environmental commitments. The results of the audit shall be submitted to this Office within fifteen (15) days upon completion of the auditing activities.

11. That a billboard containing this message: “Notice to the Public, This CAVITE INDUSTRIAL AREA FLOOD MANAGEMENT PROJECT of DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) has been issued an Environmental Compliance Certificate (ECC-R4A-1704-0131) by the Department of Environment and Natural Resources– Environmental Management Bureau CALABARZON Region on .” must be installed at all entry/exit points and at all perimeters of the project facing the road to inform the general public within thirty (30) days from receipt of the ECC.

12. That when the implementation of the project causes adverse environmental impacts and/or pose nuisance to public health and safety, the proponent shall immediately suspend its project operation until such time that appropriate remedial measures are effected and/or any damage to persons and/or properties resulting from the same are properly compensated.
13. 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.

14. 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/monitoring to oversee compliance to the ECC without the need for prior notice to the proponent.

II. RESTRICTIONS

The proponent is strictly subject to the following restrictions:

1. That no other activities should be undertaken other than what was stipulated in the EIS Report. Should there be an expansion or deviation of the project beyond the project description, construction of other structures beyond those stated in the EIS Report; transfer of location or any change in the activity, shall be made subject to a new EIA requirements.

2. That no trees shall be affected in all phases of the project, or if there is any, necessary documents such as “Tree Cutting Permit”, “Balloting Permit” and other permits/clearances, shall be secured from the concerned DENR sector pertaining to the implementation of the project.

3. That during the construction phase of the project, the proponent shall install a temporary 2-stage settling pond for wastewater prior to its final disposal into the local sewer and drainage system.

4. That the proponent (DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH), as represented by its Project Director, UPMO-Flood, Management Cluster, MR. PATRICK B. GATAN, CESO III) and its EIS preparers (Engr. Maria Carmela Q. Capule, Ms. Marilou P. Avenido, Ms. Carolyn DP. Barrias, Mr. Virgilio Montealto Garcia, Mr. Pablito C. Argamosa, and Ms. Milagros Pasion-Asuncion) shall be jointly and severally accountable for any misrepresentation and failure to state material information in the submitted document.

5. 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 within fifteen (15) days as regards to the transfer of ownership/management.

The conditions stipulated in this Certificate shall be deemed final within fifteen (15) days from receipt hereof and all conditions 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 (P50,000.00) for every violation thereof.

ECC-R4A-1704-0131
Cavite Industrial Area Flood Management Project
Department of Public Works and Highways (DPWH)
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.

<table>
<thead>
<tr>
<th>Regulatory Conditions</th>
<th>Concerned Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The proponent shall comply with, but not limited to the following:</td>
<td>DOH</td>
</tr>
<tr>
<td>1.1 P.D. 856 or the Sanitation Code of the Philippines;</td>
<td>DOLE – Bureau of Working Condition</td>
</tr>
<tr>
<td>1.2 P.D. 442 or the Labor Code of the Philippines including occupational health and</td>
<td>Municipal/City Planning &amp; Dev’t. Office/Building</td>
</tr>
<tr>
<td>safety;</td>
<td>Official/BFP/</td>
</tr>
<tr>
<td>1.3 R.A. 6541 or the National Building Code of the Philippines including adequate</td>
<td>LGU Concerned</td>
</tr>
<tr>
<td>storm drainage system and other flood control measures and compliance to the Fire</td>
<td>DPWH/NWRB</td>
</tr>
<tr>
<td>Safety and Emergency</td>
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<tr>
<td>1.4 P.D. 1067 or the Water Code of the Philippines</td>
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</tbody>
</table>

Environmental Planning Recommendations for the Proponent

2. Close monitoring of the project should be undertaken by the proponent to maintain a high level of safety and efficiency at all stages of the project, and to immediately address any environmental hazard/change that may take place.

For dissemination and proper action of the parties concerned.

CHERYL D. DUYA
Case Handler
OIC, Environmental Impact Assessment Section

ROBERT ANGELO M. METIN
OIC, Clearance and Permitting Division

DIR. NOEMI A. PARANADA
OIC-Regional Director

Processing Fee : PhP 10,000.00
O.R. No. : 4253162
Legal Fee : PhP 100.00
O.R. No. : 9752748
Date : 04/10/17

ECC-R4A-1704-0131
Cavite Industrial Area Flood Management Project
Department of Public Works and Highways (DPWH)