



25 OCT 2017

Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
DENR Compound, Visayas Avenue, Diliman Quezon City 1116
Telephone Nos.: (632)927-15-17, 928-37-25; Fax No.: (632) 920-22-58
Website: <http://www.emb.gov.ph> / Email: mail@emb.gov.ph

ECC-CO-1708-0017

Hon. Arthur P. Tugade
Secretary
DEPARTMENT OF TRANSPORTATION (DOTr)
S. Osmeña Road
Clark Freeport
Mabalacat, Pampanga

SUBJECT: ENVIRONMENTAL COMPLIANCE CERTIFICATE

Dear Sir:

This refers to the Environmental Compliance Certificate (ECC) application for the proposed **Metro Manila Subway Project (MMSP) Phase 1** to be located in Metro Manila.

After satisfying the requirements in the said application and upon recommendation of the Environmental Impact Assessment Review Committee, the Department through the Environmental Management Bureau (EMB), has decided to issue the ECC for the above-mentioned Project.

With the issuance of the ECC, you are expected to fully implement the measures presented in the Environmental Impact Statement (EIS) and the Environmental Management and Monitoring Plan (EMMoP) 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 be used as an authorization to implement the project and you may proceed with the implementation only after securing all the necessary and relevant permits from other pertinent Government Agencies. 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,

By the Authority of the Secretary

ENGR. METODIO U. TURBELLA
Director



cc: LGU -Quezon City
LGU -Taguig City
DPWH
PHIVOLCS

LGU -Pasig City
LGU -Parañaque City
MMDA

LGU-Makati City
LGU -Valenzuela City
DOLE



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ENVIRONMENTAL COMPLIANCE CERTIFICATE
(Issued under Presidential Decree No. 1586)
ECC-CO-1708-0017

THIS IS TO CERTIFY THAT THE PROPONENT, **DEPARTMENT OF TRANSPORTATION (DOTr)**, as represented by its Secretary, Atty. Arthur P. Tugade is granted this Environmental Compliance Certificate (ECC) for the proposed **Metro Manila Subway Project (MMSP) Phase 1** to be located in Metro Manila 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 documents labeled as Annexes A and B.

PROJECT DESCRIPTION

This Certificate covers construction and operation of Metro Manila Subway Project (Phase 1) comprising thirteen (13) underground stations traversing (5) cities namely: Quezon City, Pasig City, Makati City, Taguig City and Parañaque City with a total subway length of **28.3 km**, starting at Quirino Highway in Quezon City and ends in FTI, Taguig City.

The ECC includes Depot for trains covering about 31.7 hectares of land area in Brgy. Ugong, Valenzuela City.

This Certificate is issued in compliance with the requirements of Presidential Decree No. 1586, and the implementing rules and regulations thereof. Non-compliance with any of the provisions of this Certificate shall be a sufficient cause for its cancellation and/or imposition of a fine in an amount not to exceed Fifty Thousand Pesos (₱50,000.00) for every violation and shall be without prejudice to imposition of fines and penalties under other environmental laws, rules and regulations. The EMB, however, is not precluded from reevaluating, and correcting any deficiencies or errors that may be found after the issuance hereof this Certificate.

Issued at DENR, Quezon City, Philippines, this OCT 25 2017.

Recommending approval:

By the Authority of the Secretary:


ATTY. MICHAEL DRAKE P. MATIAS
Chief, EIAM Division


ENGR. METODIO U. TURBELLA
Director



STATEMENT OF ACCOUNTABILITY

I, Arthur P. Tugade, Secretary, representing Department of Transportation with office address located at S. Osmeña Road, Clark Freeport, Mabalacat, Pampanga, take full responsibility in complying with all conditions in this Environmental Compliance Certificate (ECC).




Signature *AT* *N*



CITY OF MANILA

10 NOV 2017

Subscribed and sworn to before me this _____ day of _____, 2017, the above-named affiant taking oath presenting _____ issued on _____ at _____.



Notary Public

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XXXVIII
2017

Atty. Flordeliza Santiago-Reyes
Notary Public for the City of Manila
Until December 31, 2017
Roll No. 30117 Tin 124-300-900
PTR No. 4899807 issued on 12/10/2015, Manila
IBP No. 1012835 issued 12/11/2015
1117 Blumentritt Street, Sampaloc, Manila
Notarial Commission No. ~~2016~~ 072
PTR MLA.5998917 1/ 4/17



I. CONDITIONS

ENVIRONMENTAL MANAGEMENT

All commitments, mitigating measures and monitoring requirements, contained in the approved Environmental Impact Statement (EIS) particularly in the Environmental Management and Monitoring Plan (EMMoP) shall be instituted to minimize any adverse impact of the project to the environment throughout its implementation, including the following:

1. Conduct an effective and continuing Information, Education and Communication (IEC) Program through the use of most effective media to inform and educate all stakeholders, especially the contractors, workers, LGUs, businesses and local residents about the following:
 - a. Project impacts and mitigating measures embodied in its EIS;
 - b. Conditions stipulated in this Certificate;
 - c. Environmental and human safety features of the project, and
 - d. Health consciousness alerts for any project-induced discomfort (from dust, smell, noise, vibration) as the project progresses throughout the whole route.
2. Implement a comprehensive Social Development Program (SDP) and submit a separate report together with the Compliance Monitoring Report (CMR) to the EMB Central Office using CMR Online on a semi-annual basis;
3. Submit detailed waste management program for proper handling, collection and disposal of solid, hazardous and liquid waste to EMB Central Office (CO) and EMB National Capital Region (NCR) within six (6) months prior to project construction. Proof of implementation shall be submitted together with the CMR;
4. Ensure that all the existing waterways affected by the proposed project construction are maintained and not obstructed;
5. Submit a detailed demobilization plan for the construction yards within six (6) months prior to project construction. The plan should include the following:
 - a. Coordination with concerned local government units to promote compatibility of adjoining land uses with the intended subway project station including its exit and entrance; and
 - b. Allocation of at least 30% of total area of construction yards for green and open spaces, including but not limited to setting up of vertical and pocket gardens, mini open parks system to promote urban biodiversity.
6. Submit a detailed plan for earth balling and replanting of mature native/endemic trees within six (6) months prior to project construction. The plan should include the following:

- a. specific recipient sites which have already been prepared and conditioned
 - b. ensure high degree of survival
 - c. provision for regular maintenance until trees have re-established in their new environment
7. Submit an approved Resettlement Action Plan (RAP) of the affected communities within six (6) months prior to project construction;

GENERAL CONDITIONS

8. The proponent shall set-up the following:

- 8.1 A readily available and replenishable Environmental Guarantee Fund (EGF) to cover the following expenses:
- a. for further environmental assessments, compensations/indemnification for whatever damages to life and property that may be caused by the project;
 - b. rehabilitation and/or restoration of areas affected by the project's implementation; and
 - c. abandonment/decommissioning of the project facilities related to the prevention of possible negative impacts; and as a source of fund for contingency and clean-up activities.
- 8.2 Establish a Multipartite Monitoring Team (MMT) composed of representative(s) from the local environmental Non-Government Organization (NGO), POs, and the Local Government Units per DAO 2017-15. The MMT shall primarily oversee the compliance of the proponent with the Environmental Management and Monitoring Plan (EMMoP) and the ECC conditions;
- 8.3 A replenishable Environmental Monitoring Fund (EMF) to cover all costs attendant to the operation of the MMT such as training, the hiring of technical experts and resource persons, fieldwork and transportation.

The amount and mechanics of the EGF, EMF and the establishment of the MMT shall be determined by the EMB Central Office and the proponent through a Memorandum of Agreement (MOA) which shall be submitted within sixty (60) days upon receipt of this Certificate;

9. Establish an Environmental Unit (EU) within sixty (60) days from receipt of this Certificate that shall competently handle the environment-related aspects of the project. In addition to the monitoring requirements as specified in the Environmental Management and Monitoring Plan (EMMoP), the EU shall have the following responsibilities:
- a. Monitor actual project impacts vis-à-vis the predicted impacts and management measures in the EIS;
 - b. Recommend revisions to the EMMoP, whenever necessary subject to the approval of EMB Central Office;
 - c. Ensure that data gathered during monitoring activities are properly documented, assessed, evaluated and reported in accordance with the standard formats; and

- d. Ensure that monitoring and submission of reports to EMB CO are carried out as required.
10. The proponent shall ensure that its contractors and sub-contractors are provided with copies of this ECC and that they will strictly comply with the relevant conditions of this Certificate;

II. RESTRICTIONS

11. No activities shall be undertaken until and unless disposal sites of excavated materials have been identified, duly covered by agreement/s and have been permitted in accordance with law. Proof of compliance shall be filed with the Regional Office having jurisdiction over the disposal area and shall be without prejudice to environmental safeguards that may be prescribed as warranted. Likewise, a copy of which shall form part of the requirement under Condition 3 hereof;
12. No activities shall be undertaken other than what were stipulated in the final EIS. Any expansion and/or modification of the project beyond the project description or change in alignment/route that will cause significant impacts to the environment shall be subject to a new Environmental Impact Assessment; and
13. In case of transfer of ownership of this Project, the same conditions and restrictions shall apply to the transferee or grantee who shall secure in writing the corresponding amendment of this ECC from the EMB Central Office within fifteen (15) working days reflecting such transfer.

O.R. No : 8081890
Date : 08/18/2017
Processing Fee : 10,000.00

Environmental Compliance Certificate
ECC-CO-1708-0017
Department of Transportation

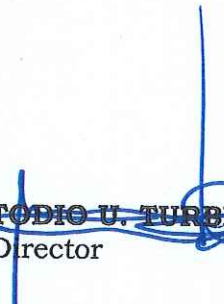


PROJECT ASSESSMENT PLANNING TOOL

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 the surrounding areas, the following are recommended to the parties and authorities concerned for appropriate action.

OTHER REGULATORY REQUIREMENTS/CONDITIONS	CONCERNED GOVERNMENT AGENCIES/ENTITIES
1. Strict compliance with the Revised National Structural Code of the Philippines	LGU concerned
2. Compliance with the Sanitation Code of the Philippines;	Department of Health (DOH) and LGU concerned
3. Compliance with the Labor Code of the Philippines;	Department of Labor and Employment (DOLE)
4. Compliance with the Building Code of the Philippines	LGU concerned
5. Ensure compliance with the Ecological Solid Waste Management Act;	LGU concerned
ENVIRONMENTAL PLANNING RECOMMENDATIONS FOR THE PROPONENT	
6. Priority of employment shall be given to qualified local residents. Opportunities for qualified PWDs, women, senior citizens, where possible, shall be considered. Adequate public information for jobs available to local residents in the affected areas will be provided.	
7. Conduct a detailed Traffic Impact Assessment (TIA) in coordination with the Metro Manila Development Authority (MMDA) and concerned LGU for every proposed station prior to project construction integrating proposed road expansion projects (if any) of the concerned government agencies.	
8. An inclined drilling program should be designed and carried out for the segment(s) of the subway along the West Valley Fault (e.g. Cayetano Station). The design of the drilling program and interpretation of results should be done in consultation with PHIVOLCS.	
8. Based on the results of the Detailed Engineering Design, the proponent may consider realignment of subway from the fault while maintaining the Cayetano Station.	


ATTY. MICHAEL DRAKE P. MATIAS
 Chief, EIAM Division


ENGR. METODIG U. TURBELLA
 Director

