

Part 2. Employer's Requirements
Section VI – 4 Supplemental Information
VI – 4 – 3 Environmental Documents

Civil Works and Maintenance
Equipment for Depots

Supplementary Information of Environmental Documents

The following Environmental Documents for LRT Line 1 Cavite Extension Project (L1CEP) are contained in CD-ROM for reference.

1. Environmental Impact Statement (EIS)
2. Environmental Compliance Certificate (ECC)
3. Amended Environmental Compliance Certificate
4. LRTA letter to Regional Director of DENR NCR
5. Tree Cutting and Transfer Plan LRTA Depot Expansion Activities
6. Pasay City Certification
7. Barangay Permit
8. Tree Cutting and Earth-Balling Permit for Baclaran Expansion Depot

EIS for L1CEP was prepared by Berkman International Inc. and submitted by Light Rail Transit Authority (LRTA) to Department of Environmental and Natural Resources, Environmental Management Bureau (DENR-EMB).

ECC for L1CEP was issued by DENR-EMB to LRTA on June 10, 2013.

Amended ECC for L1CEP was issued by DENR-EMB to LRMC on September 19, 2016.

LRTA letter to Regional Director of DENR-NCR requesting for Permit to Cut Trees Application for L1CEP was submitted on March 20, 2017

Tree Cutting and Transfer Plan LRTA Depot Expansion Activities for L1CEP was submitted to DENR on March 20, 2017.

Certification of No Objection to the Cutting of Trees within LRTA Compound for L1CEP was issued by Pasay City on January 20, 2017.

Barangay Permit of No Objection to the Cutting of Trees within LRTA Compound for L1CEP was issued on January 18, 2017.

Tree Cutting and Earth-Balling Permit was issued on May 10, 2017 for Baclaran Expansion Depot.

ENVIRONMENTAL IMPACT STATEMENT

Light Rail Transit Line 1 Cavite Extension Project (Baclaran to Cavite)



Submitted to:



ENVIRONMENTAL MANAGEMENT BUREAU
DENR Compound, Visayas Avenue
Diliman, Quezon City

19 May 2012

Submitted by:



**LIGHT
RAIL
TRANSIT
AUTHORITY**

LRTA Compound Admin. Building
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Annex B: Draft Concession Agreement
Annex C: Emergency Procedures and Failure Management
Annex D: PEMAPS Questionnaire
Annex E: Photographs
Annex F: Accountability Statements



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

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10 JUN 2013

ECC-CO-1305-0018

Engr. Honorito D. Chaneco
Administrator
LIGHT RAIL TRANSIT AUTHORITY (LRTA)
Aurora Blvd., Pasay City, Metro Manila

SUBJECT: ENVIRONMENTAL COMPLIANCE CERTIFICATE

Dear Sir:

This refers to your application for an Environmental Compliance Certificate (ECC) and the submitted Environmental Impact Statement (EIS) for your proposed **LRT LINE 1 CAVITE EXTENSION PROJECT (L1CEP)** to be located at the Cities of Parañaque and Las Piñas, Metro Manila and Municipality of Bacoor, Province of Cavite.

After satisfying the requirements and upon recommendation of the Environmental Management Bureau (EMB), this Department has decided to grant an ECC for the above-mentioned project.

With the issuance of this ECC, you are expected to implement the measures presented in the EIS intended to protect and mitigate the project's adverse impacts on community health, welfare and the environment. You may proceed with project implementation only after securing the necessary permits from other pertinent Government Agencies. Environmental considerations shall be incorporated in all phases and aspects of the Project. This Office shall be monitoring the project periodically to ensure your strict compliance with stipulations cited in the attached ECC.

Please be guided accordingly.

Very truly yours,

By the Authority of the Secretary:


ATTY. JUAN MIGUEL T. CUNA, CESO IV
OIC- Director



cc: EMB Regional Office No. IV-A
EMB Regional Office No. NCR
LGU - Provincial Government of Cavite
LGU - Municipality of Bacoor
LGU - City of Las Piñas
LGU - City of Parañaque



Republic of the Philippines
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ENVIRONMENTAL COMPLIANCE CERTIFICATE
(Issued under Presidential Decree No. 1586)
ECC-CO-1305-0018

THIS IS TO CERTIFY THAT THE PROPONENT, **LIGHT RAIL TRANSIT AUTHORITY (LRTA)**, as represented by its *Administrator, Engr. Honorito D. Chaneco*, is granted this Environmental Compliance Certificate (ECC), for its proposed **LRT Line 1 Cavite Extension Project (L1CEP)** to be located at the *Cities of Parañaque and Las Piñas, Metro Manila and Municipality of Bacoor, Province of Cavite*, 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 is valid only for the construction and operation of the 11.7-kilometer extension of the LRT Line 1 from Baclaran to Bacoor, Cavite, which includes ten (10) passenger stations; Intermodal facility each at Dr. Santos, Zapote and Niog Stations; a satellite depot in Bacoor, Cavite and other ancillary facilities such as batching plant and pre-cast yard as described in the submitted document.

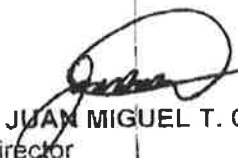
This Certificate is issued in accordance with the requirements of Presidential Decree No. 1586 and DENR Administrative Order (D.A.O.) No. 2003-30. Non-compliance with any of the provisions of this Certificate shall be a sufficient cause for its cancellation and/or imposition of a fine in an amount not to exceed Fifty Thousand Pesos (₱ 50,000.00) for every violation thereof without prejudice to imposition of fines and penalties under other environmental laws. The EMB, however, is not precluded from reevaluating and correcting any deficiency or error that may be found after issuance of this Certificate.

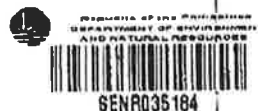
Issued at DENR, Quezon City, Philippines, this _____

Recommending Approval:

Approved by the Authority of the Secretary:

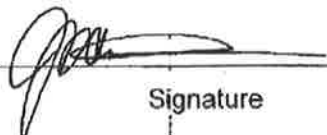

ATTY. MICHAEL DRAKE P. MATIAS
OIC-Chief, EIAM Division


ATTY. JUAN MIGUEL T. CUNA, CESO IV
OIC, Director



SWORN ACCOUNTABILITY STATEMENT

I, **Engr. Honorito D. Chaneco**, Administrator of **Light Rail Transit Authority (LRTA)** and proponent of this **LRT Line 1 Cavite Extension Project (L1CEP)**, to be located at Cities of Parañaque and Las Piñas, Metro Manila and Municipality of Bacoor, Province of Cavite, take full responsibility in complying with all conditions contained in this Environmental Compliance Certificate (ECC).



Signature

TIN No. :

Subscribed and sworn to before me on this 19 day of JUNE 2013, the above-named affiant taking oath and presenting his/her Passport No. EB4276150 issued on DECEMBER 15, 2011 at DFB MANILA.

Signature of Administering Office

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I. CONDITIONS

ENVIRONMENTAL MANAGEMENT

All commitments, mitigating measures and monitoring requirements, especially those contained in the Environmental Impact Statement (EIS), particularly in the Environmental Management Plans/Environmental Monitoring Plans (EMP/EmoP), including all their modifications and additional information as approved by the EMB, shall be instituted to minimize any adverse impact of the project to the environment throughout its implementation, including the following:

1. Implement a Waste Management Program for proper handling, collection and disposal of solid, hazardous and liquid wastes;
2. Implement a dust control system at the construction site to suppress suspended particulate matters generated by the construction activities;
3. Construction and installation of drainage structures such as ditches, culverts and pipe drains to divert surface and run-off water;
4. Implement Social Development Program including priority employment for local residents within the direct impact areas;
5. The LRTA and its identified concessionaire shall conduct a detailed Traffic Impact Assessment (TIA) and submit a report to EMB Central Office within sixty (60) days prior to project implementation. Consequently, Traffic Management Program (TMP) in coordination with the Metro Manila Development Authority (MMDA)/concerned LGU shall be prepared. Approved copy of TMP shall be furnished to EMB Central Office within thirty (30) days from its approval;

GENERAL CONDITIONS

6. The project operations shall conform with the provisions of provisions of R.A. No. 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990), R.A. No. 8749 (Philippine Clean Air Act of 1999), and R.A. No. 9003 (Ecological Solid Waste Management Act of 2000), R.A. No. 9275 (Philippine Clean Water Act of 2004);
7. The LRTA and its identified concessionaire, shall set-up the following:
 - a) A readily available and replenishable Environmental Guarantee Fund (EGF) to cover the following: expenses for further environmental assessments; compensation/ indemnification for whatever damages to life and property that may be caused by the project; rehabilitation and/or restoration of areas affected by the project's implementation;
 - b) A Multi-partite Monitoring Team (MMT) composed of representative(s) from LRTA and its concessionaire, MMDA, EMB Regional Office, Non-Government Organizations (NGOs), the Local Government Unit's (LGUs) where the project is situated, and other concerned government agencies shall be organized Establishment of a replenishable Environmental Monitoring Fund (EMF) to cover all costs attendant to the operation and monitoring activities of the MMT.

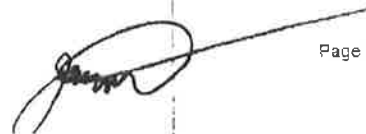


- c) The amount and mechanics of the abovementioned funds shall be determined by EMB and the proponent in consultation with concerned EMB Regional Offices (NCR and IV-A), through an integrated Memorandum of Agreement which shall be submitted to the EMB CO within sixty (60) days upon receipt of this Certificate;
8. Establishment of an Environmental Unit (EU) to effectively handle, implement, and manage all environment-related aspects of the project. Proof of establishment of the EU shall be submitted to EMB Central Office within sixty (60) days prior to project construction. The EU shall also have the responsibilities of monitoring actual project impacts vis-à-vis the predicted impacts on human/social and physical environment and environmental management measures in the EIS;
9. The LRTA shall ensure that all relevant conditions of this Certificate are strictly complied with by its commissioned contractors/sub-contractors during all phases of project implementation;
10. Within sixty (60) days from the perfection of the contract between herein proponent and the concessionaire, a joint undertaking to fully comply with the conditions stipulated in the ECC shall be executed and submitted to EMB Central Office;

II. RESTRICTIONS

11. No other activities shall be undertaken other than what were stipulated in the EIS document. Expansion of the project/construction of other structures or any change in the activity beyond those stated in the EIA document shall be subject to new Environmental Impact Assessment requirements; and
12. In case of transfer of ownership of this project, these same conditions and restrictions shall apply and the transferee shall be required to notify the EMB within fifteen (15) days from the transfer of ownership.

O.R. No. : 7145876
Date : 05/06/2013
Processing Fee : P 6,000.00



PROJECT ASSESSMENT PLANNING TOOL

To assist the Proponents and Government agencies concerned in the management and better coordination in mitigation of the impact on the project to the environment, the following have been recommended by the EIA Review Committee to the parties and authorities concerned for appreciation and appropriate action.

RECOMMENDATIONS TO CONCERNED GOVERNMENT AGENCIES	RESPONSIBLE AGENCY
1. The LRTA and Proponent through its Concessionaire needs to comply with: <ul style="list-style-type: none"> ▪ Sanitation Code of the Phils. ▪ Labor Code of the Phils. including Occupational Health and Safety Standards for all activities and provide personal protective equipment for the workers. ▪ Building Code of the Phils. 	DOH DOLE-BWC LGU
2. Compliance with Tree Cutting Permit requirements (if any)	DENR-FMB
3. To undertake studies on the capacity of the station to handle commuters utilizing each station to minimize long queuing and crowding	DOTC and MMDA
ENVIRONMENTAL PLANNING RECOMMENDATIONS FOR THE PROPONENT	
4. Implement an employment prioritization scheme for hiring of qualified local residents within the affected areas.	
5. Design and undertake an effective continuing Information, Education and Communication (IEC) Program throughout the pre-construction, construction and operational phases of the project especially on the Traffic Management Plan to be implemented.	
6. First aid facilities and services for staff and employees shall be made available on-site during construction and operation of the project.	


ATTY. MICHAEL DRAKE P. MATIAS
 OIC-Chief, EIAM Division


ATTY. JUAN MIGUEL T. CUNA, CESO IV
 OIC, Director



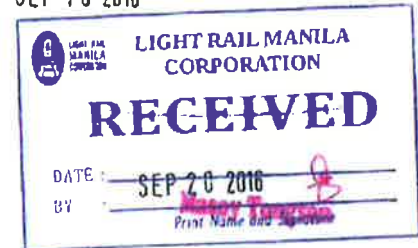


Republic of the Philippines
 Department of Environment and Natural Resources
 ENVIRONMENTAL MANAGEMENT BUREAU
 DENR Compound, Visayas Avenue, Diliman, Quezon City 1116
 Telephone Nos. : 927-15-17, 928-20-96
 Email : emb@emb.gov.ph
 Visit us at <http://www.emb.gov.ph>

SEP 19 2016

SEP 16 2016

MS. LOUERNIE F. DE SALES, PhD
 Environmental and Social System Manager
LIGHT RAIL MANILA CORPORATION
 3rd Floor Makati Stock Exchange Building
 Ayala Avenue, Makati City



Subject: Amendment of LRT Line 1 Cavite Extension Project (ECC-CO-1305-0018)

Dear Ms. De Sales:

This has reference to your request for the amendment of **Environmental Compliance Certificate (ECC)** issued to **Light Rail Transit Authority (LRTA)** for the LRT Line 1 Cavite Extension Project (L1CEP) issued on 10 June 2013 to include facilities in the existing Baclaran Depot Expansion as follows:

1. Light and Heavy Maintenance Depot;
2. Wheel Re-profiling Shed;
3. Sub-Station;
4. Motor Pool;
5. Material Storage;
6. Gate House;
7. Hazardous Material Storage;
8. Waste Material Storage;
9. Water Tank;
10. Switch Room; and
11. Waste Water Treatment Facility for domestic and depot water waste.

Based on evaluation of the submitted documents, the said request is hereby **granted**.

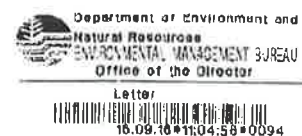
All other conditions stipulated in the above-cited ECC shall remain in force unless otherwise revised in writing. Any expansion and/or modification of approved operations shall be subjected to a new Environmental Impact Assessment (EIA) requirement.

As to submission of reports, please be informed of the Memorandum Circular No. 2016-001 "Requiring Online submission of Compliance Monitoring Report (CMR)". Please visit our website at www.emb.gov.ph, register at CMR Online and submit your CMR covering 1st Semester of 2016.

Thank you.

Very truly yours,


GILBERT C. GONZALES
 Director



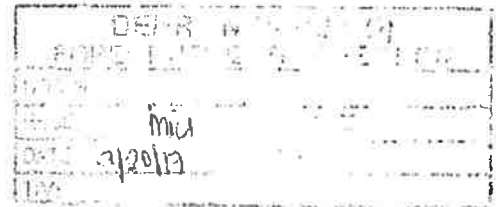


**LIGHT
RAIL
TRANSIT
AUTHORITY**

February 13, 2017

MS. LOURDES C. WAGAN
Regional Director
DENR NCR
National Ecology Center
East Avenue, Diliman, Quezon City

Subject: **Permit to Cut Trees Application**



Dear Director Wagan,

Respectfully following up the approval to our previous request dated September 9, 2015 for the cutting of trees within the LRTA compound to give way for the construction of LRT Line 1 South Extension Project (copy of which is hereto attached)

Your prompt action on this matter will be highly appreciated.

Very truly yours,

GEN. REYNALDO I. BERROYA
Administrator



CC: ENGR. NELSON P. VILLANUEVA – Head Executive Assistant
MR. FERNANDO C. QUIAMBAO – Executive Assistant
MR. FELIX GERARD R. LEYSON – OIG, DA for Operations and Engineering



Address
Administration Bldg., LRTA Compound Aurora Blvd., Pasay City, M.M., Republic of the Philippines
FAX 831-6449 • Telefax 64614 LRT PN • Phones: 853-0041 to 60 / 832-0423 / 832-0432 / 831-4784 / 831-9709 / 833-2466



LIGHT
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AUTHORITY

CMX CONSORTIUM
LRTA
RECEIVING COPY

9th September 2015

Hon. LOURDES C. WAGAN
Regional Director
DENR-National Capital Region
National Ecology Center
East Avenue, Diliman, Quezon City

Dear Hon. WAGAN,

As the Proponent of the LRT Line 1 South Extension (Baclaran to Cavite) the LRTA would like to request your good office for permit for the cutting of trees within the LRTA Compound.

Attached are the following documents as requirements on Tree Cutting/Balling/Pruning & Trimming Permit:

1. Copy of Certificate of No Objection from Barangay 190 Pasay City
2. Copy of Certificate of No Objection from Pasay City
3. Xerox copy of TCT of Baclaran Depot
4. Development Plan showing affected trees
5. Pictures of affected trees


The LRT Line 1 South Extension was granted an Environmental Compliance Certificate by the DENR Central Office (No. CO-1305-0018) for the construction and operation of the said project, which includes the expansion and improvement of the existing Baclaran depot, located at Barangay San Roque, Pasay City. Site clearing works will entail cutting of such trees to give way to the expansion and improvement of the Baclaran depot.

Your prompt action on this matter will be highly appreciated.

Thank you.

Very truly yours,

LIGHT RAIL TRANSIT AUTHORITY


HONORITO D. CHANECO
LRTA, Administrator
SEP 13 2015

SEP 22 2015

Address:
Administration Bldg., LRTA Compound Aurora Blvd., Pasay City, M.M., Republic of the Philippines
Tel: (02) 8768-2200 Fax: (02) 8768-2201 Phone: (02) 876-0400 to 30 (02) 876-0422 (02) 876-0431 (02) 876-0784 (02) 876-0707 (02) 876-1466

TREE CUTTING AND TRANSFER PLAN

LRTA Depot Expansion Activities

LRT Line 1 Cavite Extension Project

1.0 SUMMARY

An inventory of trees and palms was conducted last September 9, 2015 by the DENR NCR Forestry Division showed a total of 124 will be affected by the project. Out these 124 trees/palms, 84 will be cut and the rest will be balled and transferred. Twenty three (23) and four (4) premium species, identified as Narra and Molave, will be cut and balled respectively.

The results of the inventory, detailed in the inspection report, is attached in this plan.

2.0 INTRODUCTION

Light Rail Transit Authority (LRTA) will implement its Line 1 Cavite Extension Project in the second Quarter of 2017. In relation to this, site clearing works within the LRTA Depot in Pasay City will commence to facilitate the expansion activities. In the process, a number of trees will be affected.

A Permit to Cut Trees was applied in September 2015 to comply with all rules and regulations set forth on the balling of trees and Republic Act No. 3571 otherwise known as "An Act to Prohibit the Cutting, Destroying or Injuring of Planted or Growing Trees, Flowering Plants and shrubs or Plants of Scenic Value along Public Roads, in Plazas, Parks, School Premises or in any other Public Ground."

3.0 Tree Cutting

The trees to be cut as identified in August 2015 and validated in January 2017 by the DENR NCR Forestry Division will be conducted by a third party supplier and closely monitored by LRTA and LRMC. Standard operating procedures will be strictly implemented. The cut trees will be used inside the depot for its beautification activities, will be utilized as bulking agent (wood chips/chunks) for its composting activities among others. No timber will be sold or taken out of the depot.

4.0 Balling of Trees

The identified trees to be balled will undergo the following activities:

4.1 Site Evaluation

To increase the chances of success, the suitability of the new planting site will be evaluated by checking the growing conditions and requirements, such as light levels, soil pH, drainage, and exposure. This will be done by a third party supplier that will conduct the balling of trees.

Two sites, subject for the validation of the third party supplier, are initially identified. The free space (not covered by the expansion activities) inside the depot and La Mesa Watershed. The latter, which is Light Rail Manila Corporation's partner in tree planting activities, preferred endemic trees which include White Lauan, Dau, Calumpit, Tindalo, Kamagong, and Bignay Kalabaw.

4.2 Root Pruning

Transplanting established trees and shrubs is delicate because many of the feeder roots during the transplanting process may be damaged. Feeder roots are responsible for absorbing the majority of essential nutrients and water. To minimize the shock to the plant, root pruning several months in advance of the move, will be done whenever applicable.

Pruning the roots will encourage the plant to produce a flush of new feeder roots. This allows the plant to develop new feeder roots within the zone of the future root ball that will be moved. This will reduce the amount of transplant shock the plant experiences. Before root pruning the size of the root ball that will be moved will be considered. Minimum root ball sizes for specific plant sizes are shown in Table 1. The greater the root ball diameter, the more roots will be included in the move. Bigger root balls weigh more.

Methods for root pruning vary. One method called spading involves cutting through the existing roots with a spade, making a circular cut all the way around the plant. The edge of this cut should be just inside the edge of the future root ball. Spading works best for small plants and such will be adopted.

Trenching, another method of pruning, involves digging a trench around the plant and refilling the trench where the new feeder roots will develop with soil high in organic matter. Trenching is more appropriate for plants that have been located in the old site for several years or more. Trenching techniques also vary, depending on plant size. Trenching can be done all the way around the plant or only part of the way around the plant. To root prune using trenching, the following is done:

- Digging a trench 8 to 12 inches wide, 12 inches deeper with the outer edge of the trench corresponding to the outer edge of the future root ball.
- Filling the trench with soil high in organic matter, made by mixing two parts topsoil with one part compost. This is to ensure that the plant will grow new feeder roots in the trench of rich soil by transplanting time. These feeder roots will give the tree added ability to withstand transplant shock. Before digging the root ball for transplanting, the development of a net of fibrous roots will be checked.
- As a rule of thumb, digging a root ball larger than originally planned may assure that all of the new roots go with it.

Table 1. Recommended root ball sizes and approximate ball and plant weight based on plant form.

Plant type	Plant size	Minimum ball diameter *(Inch)	Change in ball size with changes in plant weight (lbs)	Minimum ball depth (Inch)	Approximate soil ball and plant size
Shade trees	1 inch caliper	16	8-10 inches/inch in caliper	10	124
Small ornamental trees	5 ft tall	16	2 inches/Inch in caliper or foot in height	10	124
	1 inch caliper	18	2 inches/inch in caliper or foot in height	12	193
Multiple stemmed trees - Upright	6 ft tall	22	2-4 inches/foot in height	14	323
Multiple stemmed trees - Spreading	6 ft tall	32	2-4 inches/foot in height	21	876
Deciduous shrubs	3 ft tall	14	4-6 inches/foot	9	91
Needle or broad leaf evergreen spreading shrubs	2 ft spread	16	6 inches/foot of spread	10	124
Needle or broad leaf evergreen upright shrub	2 ft. tall	14	2-4 inches/foot of height	9	91
Needle leaf evergreen tree	9 ft. tall (or) 3" in caliper	32	6-12 inches/inch caliper above 3" caliper	21	867

*Minimum ball diameters increase incrementally with increase in plant size. Data presented here is based on the American Standard for Nursery Stock (ANSI Z60.1-2004, American Nursery and Landscape Association) and Watson and Himelick 1997 (Principles and Practices of Planting Trees and Shrubs, International Society of Arboriculture Books). Source: Swackhamer, E. and Sellmer, J.

4.3 Transplanting

4.3.1 Within the Depot

Prior to moving the plant, the hole for the plant in the new location within the depot will be prepared and dug. The root ball of the plant will be soaked before moving so that the soil will remain together during the digging process. Digging will be done carefully to prevent soil away from the root ball, and then wrap the whole ball in untreated natural burlap. The burlap will be latched together securely to hold the roots firmly in place. This can be done by using a large upholstery needle and untreated natural twine to stitch the burlap tightly around the root ball.

The plant will be moved carefully using a cart. The objective is to keep the root ball intact to ensure high success transplanting rate. The third party supplier will ensure the plant is set at the same depth in the new hole and fill in around the root ball with topsoil. Mulch will be added at the top of the soil and adequate water will be provided.

4.3.2 Off-Site

Prior to the balling of plants, La Mesa Eco Park will be contacted regarding the transfer of the balled plants. These will be itemized and sent for confirmation and validation. The transfer of plants should coincide with the rainy season to ensure a high survival rate.

INSPECTION REPORT

NAME OF APPLICANT: MR. HONORITO D. CHANECO
LRTA Administrator

BUSINESS ADDRESS: LRTA Administration Bldg., LRTA Compound, Aurora Blvd.,
Pasay-City

CONTACT NUMBERS: (02) 853-0041 to 60/832-0423/832-0432/831-4784/831-9707

PURPOSE OF REQUEST: Affected by the proposed expansion and improvement of LRTA existing
Baclaran depot located at Brgy. San Roque, Pasay-City.

DATE OF REQUEST: 9-Sep-15 **DATE RECEIVED:** September 30, 2015

INVENTORY OF TREES/PALMS

A. Premium Species and Non-premium Species:

S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu.m.)	PHYSICAL CONDITION	REMARKS
1	1	Mango	59	1.5	10	0.27173	Matured and healthy	For Cutting
2	2	Narra	37	3.5	11	0.24935	Matured and healthy	For Cutting
3	3	Narra	31	1.5	10	0.07502	Matured and defective as evidenced by cavity at the basal trunk	For Cutting
4	4	Narra	52	3	12	0.42215	Matured and healthy	For Cutting
5	5	Narra	33	0.5	7	0.02834	Matured and defective as evidenced by cavity at the trunk	For Cutting
6	6	Mango	43	3	12	0.28867	Matured and healthy	For Cutting
7	7	Narra	47	3.5	10	0.40235	Matured and leaning	For Cutting
8	8	Narra	57	0.5	8	0.08454	Matured and defective as evidenced by cavity at the trunk and branches	For Cutting
9	9	Narra	53	1.5	12	0.21927	Matured and healthy	For Cutting
10	10	Dubai	29	1.5	7	0.06565	Matured and healthy	For Cutting
11		Dates palm					Healthy	For Baling
12	11	Palawan cherry	25	1	8	0.03253	Matured and healthy	For Cutting
13	12	Palawan cherry	31	0.75	9	0.03751	Matured and healthy	For Cutting
14	13	Narra	20	1.5	8	0.03122	Matured and healthy	For Baling
15	14	Narra	8	2	5	0.00666	Matured and healthy	For Baling
16	15	Narra	26	3	9	0.10554	Matured and healthy	For Cutting
17		Dates palm					Healthy	For Baling
18		Dates palm					Healthy	For Baling
19		Dates palm					Healthy	For Baling
20	16	Narra	43	1	9	0.09622	Matured, healthy but exposed root system	For Cutting
21		Dates palm					Healthy	For Baling
22		Eugenia					Healthy	For Baling
23	17	Talisay	25	1.5	10	0.04879	Matured and healthy	For Cutting
24	18	Talisay	34	0.5	10	0.02008	Matured and healthy	For Cutting

DUAN
ATTENZA I DEAR

ppg

S/N	Tree No.	SPECIES	DBH (cm)	MI (m)	TH (m)	VOL. (cu.m.)	PHYSICAL CONDITION	REMARKS
25		Dates palm					Healthy	For Balling
26		Dates palm					Healthy	For Balling
27		Dates palm					Healthy	For Balling
28	19	Narra	50	4	10	0.3204	Matured and healthy	For Cutting
29	20	Narra	50	3	12	0.3903	Matured and healthy	For Cutting
30	21	Narra	37	2	10	0.14249	Matured and healthy	For Cutting
31	22	Narra	79	1	12	0.32478	Matured and healthy	For Cutting
32		Tsaang gubat					Healthy	For Balling
33	23	Mango	18		9		Matured and healthy	For Balling
34	24	Manila palm	14		6		Healthy	For Balling
35	25	Manila palm	14		5		Healthy	For Balling
36	26	Manila palm	13		4		Healthy	For Balling
37	27	Narra	13		5		Matured and healthy	For Balling
38	28	Duhat	45	2	10	0.21076	Matured and defective as evidenced by cavity at the main branches	For Cutting
39	28a	F. Benjamina	40	1	10	0.08326	Matured and healthy	For Cutting
40		Indian tree	4		4		Healthy	For Balling
41	28b	Narra	45	2	10	0.21076	Matured and healthy	For Cutting
42	29	Narra	20	4	8	0.08326	Matured but with debarked trunk	For Cutting
43	30	Talisay	11		5		Deformed in growth and with debarked basal trunk	For Cutting
44	31	Duhat	29	3	10	0.1313	Matured and healthy	For Cutting
45	32	Talisay	15	1	7	0.01171	Matured, healthy but with exposed root system	For Cutting
46	33	Mango	20	1	6	0.02082	Matured and healthy	For Cutting
47	34	Talisay	27	4	10	0.15175	Matured, healthy but with exposed root system	For Cutting
48	35	Bunga de china	14		8		Healthy	For Balling
49	36	Mango	20	1	9	0.02082	Matured and healthy	For Cutting
50	37	Talisay	15	2.5	9	0.02927	Matured, healthy, leaning and exposed root system	For Cutting
51	38	Narra	155	1	12	1.25026	Overmatured and healthy	For Cutting
52	39	Narra	29	1	6	0.04377	Matured, deformed growth and leaning	For Cutting
53	40	Mango	42	2	8	0.1836	Matured and healthy	For Cutting
54	41	Ipil-ipil	27	1	7	0.03794	Matured and healthy	For Cutting
55	42	Alagao	25		7		Matured and healthy	For Cutting
56	43	Mango	32	2	7	0.10658	Matured and healthy	For Cutting
57	44	Ipil-ipil	27		6		Matured and healthy	For Cutting
58	45	Dead tree	45		5		Dead	For Cutting
59	46	Narra	24	2	1	0.05995	Matured but injured with nails	For Cutting
60	47	F. Benjamina	42	1	9	0.0918	Matured and healthy (cluster with 3)	For Cutting
61	48	Talisay	18	1	5	0.01686	Matured and heavily injured with knife	For Cutting

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S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu.m.)	PHYSICAL CONDITION	REMARKS
62	49	Ipil-ipil	21, 24 & 27		6		Matured, deformed in growth and leaning	For Cutting
63	50	Narra	40	2	8	0.16653	Matured, healthy and leaning	For Cutting
64	51	Narra	55	1	12	0.15742	Matured and healthy	For Cutting
65	52	Chesa	17		18		Matured and leaning	For Cutting
66	53	Narra	40	2.5	10	0.20816	Matured and healthy	For Cutting
67	54	Narra	34	2	8	0.12032	Matured, healthy and leaning	For Cutting
68	55	Ipil-ipil	20		8		Leaning and uprooted	For Cutting
69	56	F. Benjamina	17		5		Cluster of 4	For Cutting
70	57	Neem tree	7		4		Healthy	For Balling
71	58	Ipil-ipil	25		8		Matured and healthy	For Cutting
72		McArthur palm					Cluster of 7	For Balling
73	59	Mango	8		3		Healthy	For Balling
74	60	Langka	10		2		Healthy	For Balling
75	61	F. Benjamina	26		4		Matured and healthy	For Cutting
76	62	Ipil-ipil	10		6		Matured and healthy	For Cutting
77	63	F. Benjamina	30		3.5		Matured and healthy	For Cutting
78	64	Atis	7		3		Deformed in growth	For Cutting
79	65	Mango	7		3		Healthy	For Balling
80	66	Guava	6		3		Healthy	For Balling
81	67	Avocado	6		2		Healthy	For Balling
82	68	Guava	16		5		Leaning and uprooted	For Cutting
83		Langka					Sapling sized	For Balling
84		Mango					Sapling sized	For Balling
85		Langka					Sapling sized	For Balling
86	69	Aure	8		6		Leaning	For Cutting
87	70	Ipil-ipil	14		5		Matured and healthy	For Cutting
88	71	Ipil-ipil	18		5		Matured and healthy	For Cutting
89	72	Langka					Pole-sized	For Balling
90	73	Ipil-ipil	17		6		Matured and healthy	For Cutting
91	74	F. Benjamina	17		5		Matured and healthy	For Cutting
92	75	Ipil-ipil	16		6		Matured and healthy	For Cutting
93		Guyabano					Sapling sized	For Balling
94		Guyabano					Sapling sized	For Balling
95		Guyabano					Sapling sized	For Balling
96	76	Ipil-ipil	10		6		Matured and healthy	For Cutting
97		Duhat					Pole-sized	For Balling
98	77	Ipil-ipil	10		6		Matured and healthy	For Cutting
99	78	Alagao	8		4		Pole-sized	For Balling
100	79	Ipil-ipil	10		8		Matured and healthy	For Cutting
101	80	Ipil-ipil	20		8		Matured and leaning	For Cutting
102	81	Kapok	25		9		Matured and healthy	For Cutting
103		Bunga de china					Healthy	For Balling
104		Bunga de china					Healthy	For Balling
105	82	Ipil-ipil	18		7		Matured and healthy	For Cutting
106		Talisay					Pole-sized	For Balling
107	83	Ipil-ipil	18		7		Matured and healthy	For Cutting
108	84	Ipil-ipil	16		7		Matured and healthy	For Cutting
109	85	Ipil-ipil	15		8		Matured and healthy	For Cutting

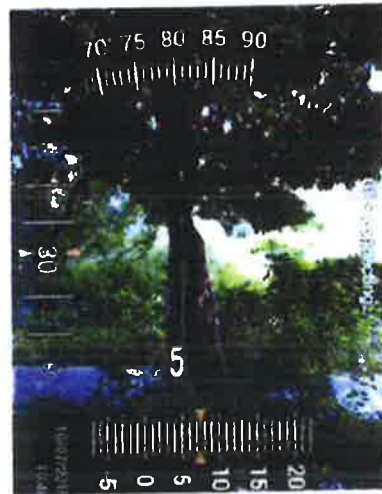
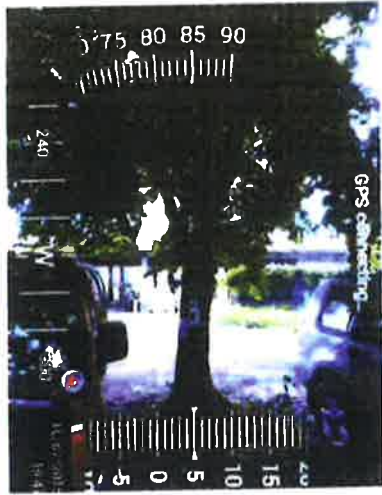
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S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu. m.)	PHYSICAL CONDITION	REMARKS
110	86	Ipil-ipil	18		7		Matured, healthy but leaning	For Cutting
111	87	Ipil-ipil	15				Matured and healthy	For Cutting
112	88	Ipil-ipil	18		8		Matured and healthy	For Cutting
113	89	Ipil-ipil	18		8		Matured and healthy	For Cutting
114	90	Ipil-ipil	18		9		Matured and healthy	For Cutting
115	91	Ipil-ipil	17		8		Matured and healthy	For Cutting
116	92	Ipil-ipil	17		7		Matured and healthy	For Cutting
117	93	Ipil-ipil	18		6		Matured and healthy	For Cutting
118	94	Ipil-ipil	20		8		Matured and healthy	For Cutting
119	95	Ipil-ipil	20		10		Matured and healthy	For Cutting
120	96	Sampalok	10		3		Matured and healthy	For Balling
121	97	Narra	35	1	8	0.06375	Matured and healthy	For Cutting
122	98	F. Benjamina	67		9		Matured and healthy	For Cutting
123	99	Molave	15		6		Matured and healthy	For Balling
124	100	Mahogany	26	1	8	0.03518	Matured and healthy	For Cutting
TOTAL						7.36937		

SUMMARY OF INVENTORY

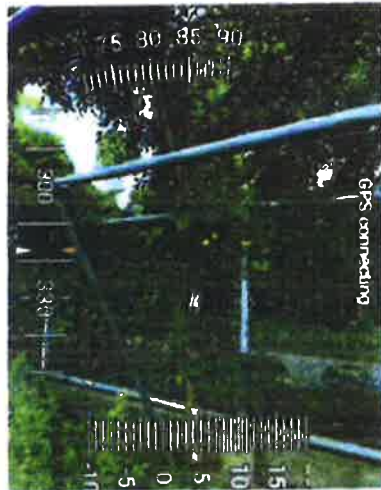
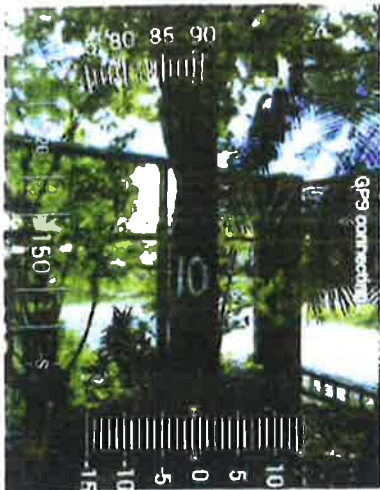
A. Premium species		For Cutting	For Balling	Total
1	Narra	23	3	26
2	Molave		1	1
Sub-total		23	4	27
B. Non-Premium species		For Cutting	For Balling	Total
1	Dates palm		8	8
2	Manila palm		3	3
3	Bunga de china		3	3
4	McArthur		1	1
5	Eugenia		1	1
6	Tsaang gubat		1	1
7	Mango	6	4	10
8	Indian tree		1	1
9	Neem tree		1	1
10	Langka		4	4
11	Guava	1	1	2
12	Avocado		1	1
13	Guyabano		3	3
14	Duhat	3	1	4
15	Alagao	1	1	2
16	Talisay	7	1	8
17	Sampalok		1	1
18	Palawan cherry	2		2
19	F. Benjamina	7		7
20	Ipil-ipil	28		28
21	Chesa	1		1
22	Atis	1		1
23	Aure	1		1
24	Kapok	1		1
25	Mahogany	1		1
26	Dead tree	1		1
Sub-total		61	36	97
GRAND TOTAL		84	40	124

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Tree No. 1	Mango	Tree No. 4	Narra	Tree No. 7	Narra
Tree No. 2	Narra	Tree No. 5	Narra	Tree No. 8	Narra
Tree No. 3	Narra	Tree No. 6	Mango	Tree No. 9	Narra

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**Tree No. 10 Duhat beside
1 Dates palm**

Tree No. 13 Narra

3 Dates palms

Tree No. 11 Palawan cherry

Tree No. 14 Narra

**Tree No.16 Narra beside
1 Dates palm**

Tree No. 12 Palawan cherry

Tree No. 15 Narra

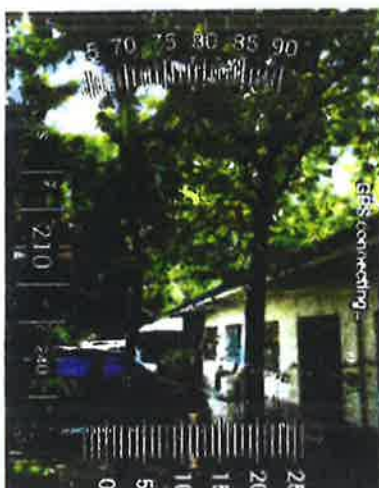
Eugenia

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Tree No. 17 & 18 Talisay	Tree No. 21 Narra	Tree No. 22 Narra
Tsaang gubat	Tree No. 23 Mango	Tree No. 24, 25 & 26 Manila palm
Tree No. 27 Narra	3 Dates palm	Tree No. 19 & 20 Narra

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Tree No. 28A *F. benjamina*

Tree No. 28B Narra

Tree No. 28 Duhat

Tree No. 29 & 30 Narra & Talisay

Tree No. 31 Duhat

Tree No. 32 Talisay

Tree No. 33 Mango

Tree No. 34 & 35 Talisay
& Bunga de china

Tree No. 36 Mango



Tree No. 37 Talisay

Tree No. 38 Narra

Tree No. 39 Narra

Tree No. 40 Mango

Tree No. 41 Ipil-ipil

Tree No. 42 Alagao

Tree No. 43 Mango

Tree No. 44 Ipil-ipil

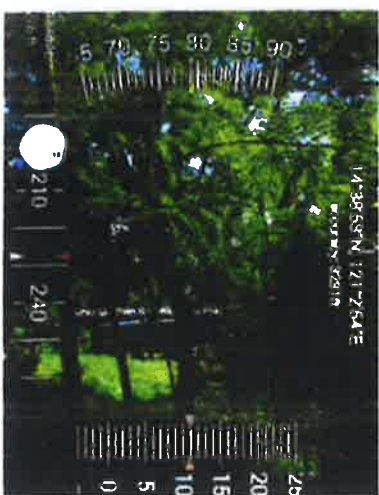
Tree No. 46 Narra

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Tree No. 47	F. Benajamina	Tree No. 48	Talisay	Tree No. 48	Talisay
Tree No. 49	Ipil-ipil	Tree No. 50	Narra	Tree No. 51	Narra
Tree No. 52	Chesa	Tree No. 53	Narra	Tree No. 54	Narra

JBS



Tree No. 63 F. Benajamina

Tree No. 62 Ipil-ipl

Tree No. 61 F. benajamina

Tree No. 60 Langka

Tree No. 59 Mango

Cluster of McArthur palm

Tree No. 58 Ipil-ipl

Tree No. 57 Neem tree

Tree No. 55 & 56 Ipil-ipl & F. benajamina

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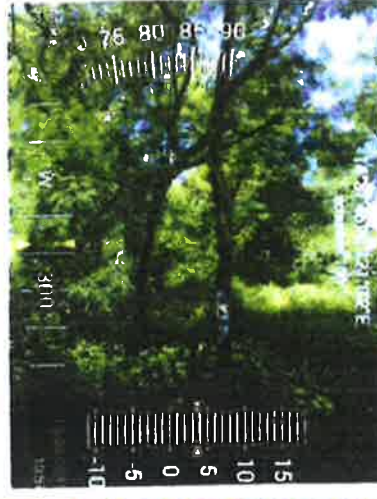
Tree No. 71	Ipil-ipil	Tree No. 70	Ipil-ipl	Tree No. 69	Aure
Langka/Mango/Langka Saplings		Tree No. 68	Guava	Tree No. 67	Avocado
Tree No. 66	Guava	Tree No. 65	Mango	Tree No. 64	Atis

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Tree No. 80	Ipil-ipil	Tree No. 79	Ipil-ipil	Tree No. 78	Alagao
Tree No. 77	Ipil-ipil	Tree No. 75	Ipil-ipil	Tree No. 74	F. banjamina
Tree No. 73	Ipil-ipil	Tree No. 72	Langka	Tree No. 76	Ipil-ipil

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Tree No. 90 Ipil-ipil

Tree No. 86 Ipil-ipil

Tree No. 81 Kapok

Tree No. 88 & 89 Ipil-ipil

Ipil-ipil

Tree No. 83, 84, 85 Ipil-ipil,

Ipil-ipil, Ipil-ipil

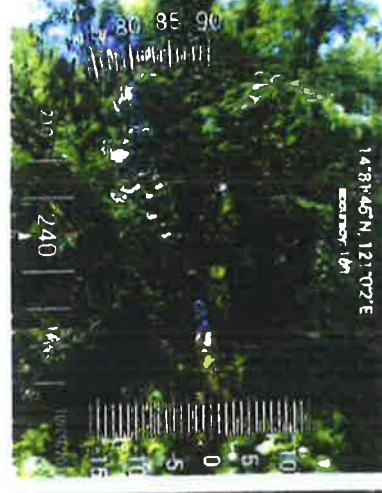
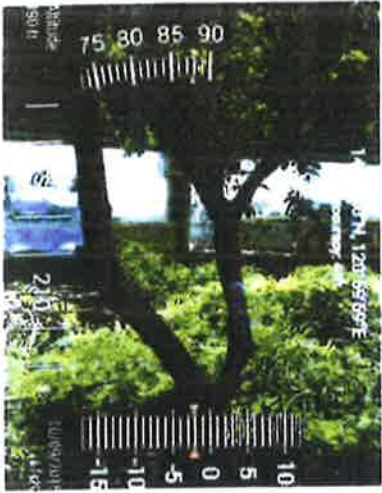
Bunga de china

Tree No. 87 Ipil-ipil

Tree No. 82 Ipil-ipil

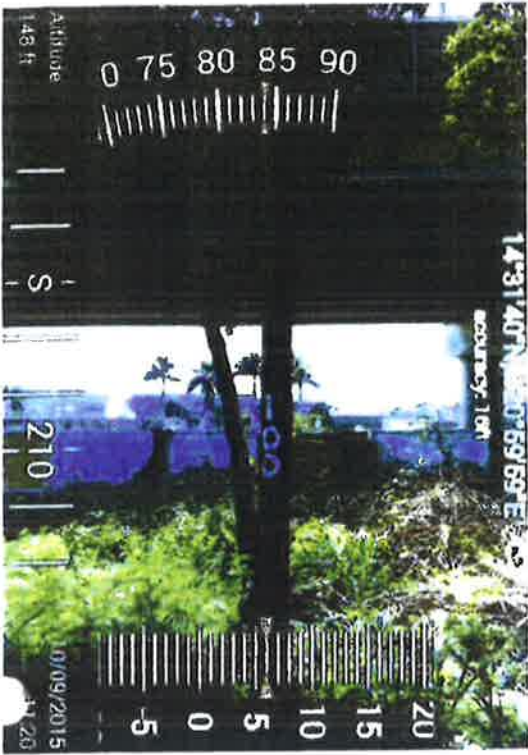
Bunga de china

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Tree No. 99	Molave	Tree No. 98	F. benjamina	Tree No. 97	Alagao
Tree No. 96	Sampalok	Tree No. 95	Ipil-ipil	Tree No. 94	Ipil-ipil
Tree No. 93	Ipil-ipil	Tree No. 92	Ipil-ipil	Tree No. 91	Ipil-ipil

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Tree No. 100 Mahogany

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Republic of the Philippines
Pasay City, Metro Manila
Office of the Mayor

CERTIFICATION

This is to certify that the City Government of Pasay interposes no objection to the cutting of trees as part of the site clearing works within the *Light Rail Transit Authority* compound in connection with the LRT Line 1 South Extension Project (Baclaran to Cavite), provided however, that the project complies with all applicable laws as well as the rules and regulations set forth by the Department of Environment and Natural Resources (DENR) on the balling of trees and Republic Act No. 3571 otherwise known as "*An Act to Prohibit the Cutting, Destroying or Injuring of Planted or Growing Trees, Flowering Plants and Shrubs or Plants of Scenic Value along Public Roads, in Plazas, Parks, School Premises or in any other Public Ground.*"

This certification is being issued this 20th day of January 2017 for whatever legal purposes this may serve best.


Hon. ANTONINO G. CALIXTO
City Mayor

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE SANGGUNIANG BARANGAY
BARANGAY 189, ZONE 20
PASAY CITY, METRO MANILA

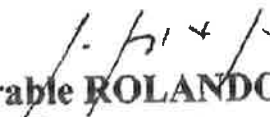


Barangay Permit

This office interposes no objection and hereby authorized (LRTA) Light Railway Transit Authority for the cutting of trees within the LRTA Compound.

It is understood that issuance of this permit serve only as a requirement for securing a Tree Cutting Permit from DENR.

Issued this 18th day of January 2017 at the Office of Barangay 189 Zone 20.


Honorable **ROLANDO RAMOS**
Barangay Captain
Barangay 189 Zone 20

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE SANGGUNIANG BARANGAY
BARANGAY 190, ZONE 20
PASAY CITY, METRO MANILA




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Issued this 18th day of January 2017 at the Office of Barangay 190 Zone 20.


Honorable ALMA D. PICHAY
Barangay Captain
Barangay 190 Zone 20



Department of Environment and Natural Resources
National Capital Region
LICENSES, PATENTS AND DEEDS DIVISION
FOREST UTILIZATION SECTION
Production Nursery, North Avenue, Diliman, Quezon City
(02) 435-8880

LPDD C/B/P Permit No. 2017-05-114
Date Approved : MAY 03 2017
Date Released : MAY 10 2017

TREE-CUTTING AND EARTH-BALLING PERMIT

This **PERMIT** is issued to **GEN. REYNALDO L. BERROYA**, Administrator, Light Rail Transit Authority (LRTA), with official address at Administrator Building, LRTA Compound, Aurora Boulevard, Pasay City, purposely for the implementation of the LRT Line 1 Cavite Extension Project.

This **PERMIT** shall be strictly implemented subject to the following conditions:

1. That only the following planted trees within a private/titled property at LRTA Compound, Aurora Boulevard, Pasay City are authorized to be cut and balled under this permit: (attached list of inventory)

TREE NO.	SPECIES	CUTTING	BALLING	TOTAL
1	Mango	6	4	10
4	Narra	23	3	26
5	Duhat	3	1	4
6	Date Palms	-	8	8
7	Palawan Cherry	2	-	2
8	Eugenia	-	1	1
9	Talisay	7	1	8
10	Tsaang Gubat	-	1	1
11	Manila Palm	-	3	3
12	Ficus Benjamina	7	-	7
13	Indian Tree	-	1	1
14	Bunga de China	-	3	3
15	Ipil-ipil	28	-	28
16	Alagao	1	1	2
17	Chesa	1	-	1
18	Neem Tree	-	1	1
19	McArthur Palm	-	1	1
20	Langka	-	4	4
21	Atis	1	-	1
22	Guava	1	1	2
23	Avocado	-	1	1
24	Aure	1	-	1

25	Guyabano	-	3	3
26	Kapok	1	-	1
27	Sampaloc	-	1	1
28	Molave	-	1	1
29	Mahogany	1	-	1
30	Dead tree	1	-	1
TOTAL		84	40	124

- The trees to be cut shall be replaced with **4, 200 seedlings** of any of the following species with a minimum height of one meter pursuant to the DENR Memorandum Order No. 2012-02, dated 05 November 2012, known as "*Uniform Replacement Ratio for Cut or Relocated Tree,*" in support to the National Greening Program (NGP)/Urban Greening and Climate Change initiative of the government;


PLANT SPECIES	
Agoho	Palawan Cherry
Anonang	African Tulip
Balitbitan	Kalimatas
Balinghasai	Banaba
Pahunan	Molave

- That prior to tree cutting and earth-balling operations the replacement seedlings shall be delivered to DENR-NCR Nursery located at North Avenue, Quezon City. Acknowledgement receipt shall be issued, copy furnished the undersigned;
- That a billboard with dimension of 4' x 8' shall be installed conspicuously within the area to inform the public that the cutting and earth-balling operations thereat is covered with a permit issued by DENR. Such notice of particulars shall indicate the name of permittee, the purpose of the activities to be undertaken and number of trees to be cut and balled. Likewise, the Barangay concerned shall be furnished with a copy of the permit prior to cutting and earth-balling operations;
- That the balled trees shall be transplanted in an open space and free from further development to be identified by the permittee in coordination with DENR-NCR. That the transplanting of earth-balled trees shall be the obligation of the permittee. The permittee shall maintain and protect transplanted trees for a period of at least three (3) years. For every transplanted tree that will not survive after six (6) months, the permittee shall conduct the replacement planting using saplings of indigenous tree species at a ratio of 1:100 as prescribed under DENR Memorandum Order No. 2012-02;
- That the Chief, Enforcement Division or his duly authorized representative with Telephone No. 435-8879 shall be informed three (3) days before the schedule of cutting and balling operations, which shall at all times be under direct supervision and monitoring;
- That the cutting and earth-balling operations shall be undertaken by a firm/person(s) with appropriate expertise and experience to ensure safety to lives and properties as well as survival of the trees to be earth-balled. The DENR shall not be held responsible for any untoward incident that might occur during the cutting and earth-balling operations;
- That issues that may arise from the cutting and earth-balling of trees shall be addressed directly and solely by the permittee;

9. That the permittee shall be required to undertake measures during and after tree-cutting and earth-balling operations to mitigate the negative impacts of the said activity within the locality and to the environment;
10. That the derivable wood materials to be recovered from cut trees within the property shall belong to the land owner. In case the wood materials will be transported by the permittee outside Metro Manila, the same shall be covered by transport documents issued by the DENR;
11. That a terminal report with pictures shall be submitted to this Office after the expiration of this permit or upon completion of the cutting and earth-balling operations, whichever comes first;
12. That this permit must be claimed within 60 days from the date of approval otherwise same shall be automatically cancelled/revoked without further notice;
13. That violation of the above conditions shall be sufficient ground for the cancellation/revocation of this permit without prejudice to the imposition of penalties in accordance with applicable laws, rules and regulations; and,
14. That this permit has a validity of 90 days upon receipt hereof or upon completion of the cutting and earth-balling operations, whichever comes first.

For strict compliance.

Recommending Approval:


SOFIO B. QUINTANA, Ph.D.
Assistant Regional Director
for Technical Services

Approved by:


ISURDES C. WAGAN
Regional Director

INVENTORY OF TREES/PALMS

A. Premium Species and Non-premium Species:

S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu.m.)	REMARKS
1	1	Mango	59	1.5	10	0.27173	For Cutting
2	2	Narra	37	3.5	11	0.24935	For Cutting
3	3	Narra	31	1.5	10	0.07502	For Cutting
4	4	Narra	52	3	12	0.42215	For Cutting
5	5	Narra	33	0.5	7	0.02834	For Cutting
6	6	Mango	43	3	12	0.28867	For Cutting
7	7	Narra	47	3.5	10	0.40235	For Cutting
8	8	Narra	57	0.5	8	0.08454	For Cutting
9	9	Narra	53	1.5	12	0.21927	For Cutting
10	10	Duhat	29	1.5	7	0.06565	For Cutting
11		Dates palm					For Balling
12	11	Palawan cherry	25	1	8	0.03253	For Cutting
13	12	Palawan cherry	31	0.75	9	0.03751	For Cutting
14	13	Narra	20	1.5	8		For Balling
15	14	Narra	8	2	5		For Balling
16	15	Narra	26	3	9	0.10554	For Cutting
17		Dates palm					For Balling
18		Dates palm					For Balling
19		Dates palm					For Balling
20	16	Narra	43	1	9	0.09622	For Cutting
21		Dates palm					For Balling
22		Eugenia					For Balling
23	17	Talisay	25	1.5	10	0.04879	For Cutting
24	18	Talisay	34	0.5	10	0.03008	For Cutting
25		Dates palm					For Balling
26		Dates palm					For Balling
27		Dates palm					For Balling
28	19	Narra	50	4	10	0.52040	For Cutting
29	20	Narra	50	3	12	0.39030	For Cutting
30	21	Narra	37	2	10	0.14249	For Cutting
31	22	Narra	79	1	12	0.32478	For Cutting
32		Tsaang gubat					For Balling
33	23	Mango	18		9		For Balling
34	24	Manila palm	14		6		For Balling
35	25	Manila palm	14		5		For Balling
36	26	Manila palm	13		4		For Balling
37	27	Narra	13		5		For Balling
38	28	Duhat	45	2	10	0.21076	For Cutting
39	28a	F. Benjamina	40	1	10	0.08326	For Cutting
40		Indian tree	4		4		For Balling
41	28b	Narra	45	2	10	0.21076	For Cutting
42	29	Narra	20	4	8	0.08326	For Cutting
43	30	Talisay	11		5		For Cutting
44	31	Duhat	29	3	10	0.13130	For Cutting
45	32	Talisay	15	1	7	0.01171	For Cutting
46	33	Mango	20	1	6	0.02082	For Cutting
47	34	Talisay	27	4	10	0.15175	For Cutting
48	35	Bunga de china	14		8		For Balling

S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu.m.)	REMARKS
49	36	Mango	20	1	9	0.02082	For Cutting
50	37	Talisay	15	2.5	9	0.02927	For Cutting
51	38	Narra	155	1	12	1.25026	For Cutting
52	39	Narra	29	1	6	0.04377	For Cutting
53	40	Mango	42	2	8	0.18360	For Cutting
54	41	Ipil-ipil	27	1	7	0.03794	For Cutting
55	42	Alagao	25		7		For Cutting
56	43	Mango	32	2	7	0.10658	For Cutting
57	44	Ipil-ipil	27		6		For Cutting
58	45	Dead tree	45		5		For Cutting
59	46	Narra	24	2	1	0.05995	For Cutting
60	47	F. Benjamina	42	1	9	0.09180	For Cutting
61	48	Talisay	18	1	5	0.01686	For Cutting
62	49	Ipil-ipil	24		6		For Cutting
63	50	Narra	40	2	8	0.16653	For Cutting
64	51	Narra	55	1	12	0.15742	For Cutting
65	52	Chesa	17		18		For Cutting
66	53	Narra	40	2.5	10	0.20816	For Cutting
67	54	Narra	34	2	8	0.12032	For Cutting
68	55	Ipil-ipil	20		8		For Cutting
69	56	F. Benjamina	17		5		For Cutting
70	57	Neem tree	7		4		For Balling
71	58	Ipil-ipil	25		8		For Cutting
72		McArthur palm			Cluster of 7		For Balling
73	59	Mango	8		3		For Balling
74	60	Langka	10		2		For Balling
75	61	F. Benjamina	26		4		For Cutting
76	62	Ipil-ipil	10		6		For Cutting
77	63	F. Benjamina	30		3.5		For Cutting
78	64	Atis	7		3		For Cutting
79	65	Mango	7		3		For Balling
80	66	Guava	6		3		For Balling
81	67	Avocado	6		2		For Balling
82	68	Guava	16		5		For Cutting
83		Langka			Sapling sized		For Balling
84		Mango			Sapling sized		For Balling
85		Langka			Sapling sized		For Balling
86	69	Aure	8		6		For Cutting
87	70	Ipil-ipil	14		5		For Cutting
88	71	Ipil-ipil	18		5		For Cutting
89	72	Langka			Pole-sized		For Balling
90	73	Ipil-ipil	17		6		For Cutting
91	74	F. Benjamina	17		5		For Cutting
92	75	Ipil-ipil	16		6		For Cutting
93		Guyabano			Sapling sized		For Balling
94		Guyabano			Sapling sized		For Balling
95		Guyabano			Sapling sized		For Balling
96	76	Ipil-ipil	10		6		For Cutting
97		Duhat			Pole-sized		For Balling
98	77	Ipil-ipil	10		6		For Cutting

S/N	Tree No.	SPECIES	DBH (cm)	MH (m)	TH (m)	VOL. (cu.m.)	REMARKS
99	78	Alagao	Pole-sized				For Balling
100	79	Ipil-ipil	10		8		For Cutting
101	80	Ipil-ipil	20		8		For Cutting
102	81	Kapok	25		9		For Cutting
103		Bunga de china					For Balling
104		Bunga de china					For Balling
105	82	Ipil-ipil	18		7		For Cutting
106		Talisay					For Balling
107	83	Ipil-ipil	18		7		For Cutting
108	84	Ipil-ipil	16		7		For Cutting
109	85	Ipil-ipil	15		8		For Cutting
110	86	Ipil-ipil	18		7		For Cutting
111	87	Ipil-ipil	15		9		For Cutting
112	88	Ipil-ipil	18		8		For Cutting
113	89	Ipil-ipil	18		8		For Cutting
114	90	Ipil-ipil	18		9		For Cutting
115	91	Ipil-ipil	17		8		For Cutting
116	92	Ipil-ipil	17		7		For Cutting
117	93	Ipil-ipil	18		6		For Cutting
118	94	Ipil-ipil	20		8		For Cutting
119	95	Ipil-ipil	20		10		For Cutting
120	96	Sampalok	10		3		For Balling
121	97	Narra	35	1	8	0.063749	For Cutting
122	98	F. Benjamina	67		9		For Cutting
123	99	Molave	15		6		For Balling
124	100	Mahogany	26	1	8	0.03517904	For Cutting
TOTAL						7.33148627	