

PUBLIC HEARING DOCUMENTATION



City Government of Makati



Philippine Infradev Holdings Inc.



September 2019

PHILIPPINE INFRADEVE HOLDINGS INC.

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PHILIPPINE INFRADEVE HOLDINGS INC.

1 INTRODUCTION

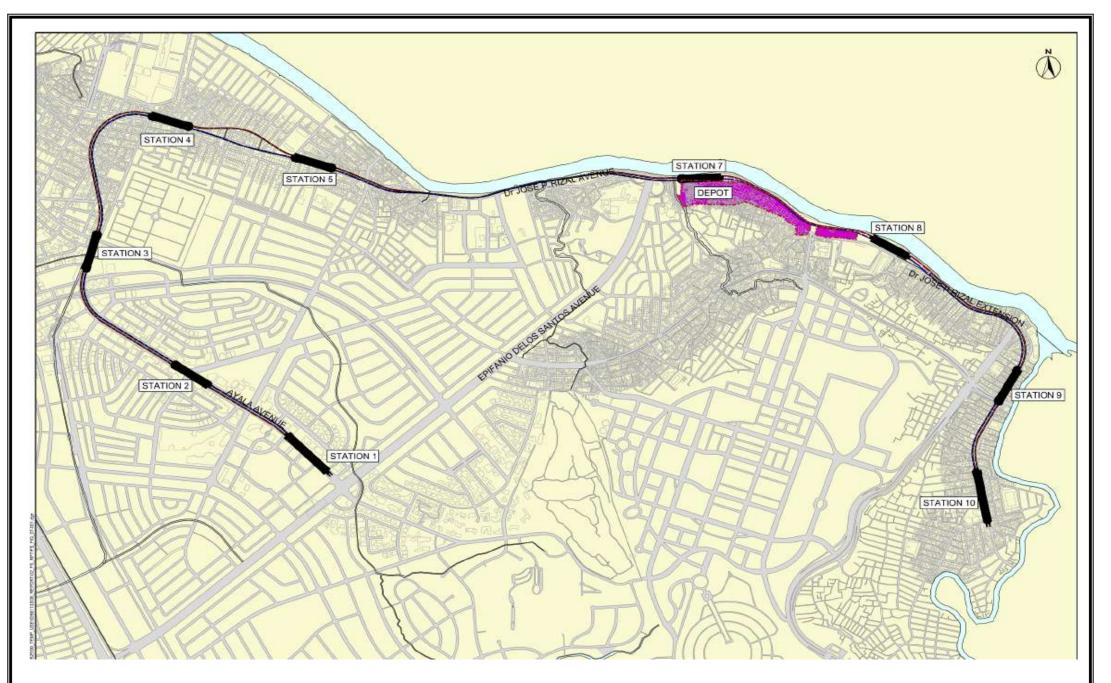
The proceedings of Public Hearing in the Environmental Impact Assessment (EIA) process in the Philippines adhere to the strengthened Guidelines on Public Participation under the Philippine Environmental Impact Statement (EIS) System (Department of Environment and Natural Resources (DENR) Administrative Order No. 2017-15). Under the Philippine EIS System, Public Hearing is a formal process that is initiated, planned and conducted by the EMB-DENR that is designed to promote dialogue or communication between and among the project proponent, the EMB-DENR, relevant agencies, LGUs and other stakeholders for the purpose of exchanging information and views on the environmental impacts assessment, management and monitoring for proposed projects applying for an ECC.

The City Government of Makati, through the Makati City PPP Selection Committee, has awarded the project for the construction, establishment, management, and operation of a subway system within the Makati City (the "**Makati Subway System**") under a Public-Private Partnership (PPP) to the original proponent Philippine Infradev Holdings, Inc. (the "**Private Proponent**").

The proposed Makati Public Rail Transport System is located in Makati City (**Figure 1**). The Project is composed of ten (10) stations beginning from near the intersection of Ayala Avenue and EDSA, towards Paseo de Roxas, Metropolitan Avenue, and JP Rizal Avenue. The proposed rail lines will be located underground accessible through the stations located at ground level.

The Project is envisioned to provide an alternative means of transport within the City of Makati. This will generally improve the traffic situation within the project area due to expected shift of commuters from road-based to rail-based transport system. The project also aims to introduce a developed Transit Oriented Development (TOD). These are areas along the project alignment that can be tapped for development once the project is operational and will be linked by the operation of the project. As these sites generally form a series of development zones that sweep along the northern stretch of Makati, parallel to the Pasig River and J. P. Rizal Boulevard, the collective TODs also enable for Makati a rebirth of its urban identity, to supplement the traditional Central Business District of Makati.







PHILIPPINE INFRADEVE HOLDINGS INC.

Name of Project	MAKATI PUBLIC RAIL TRANSPORT SYSTEM PROJECT
Project Location	Makati City
Project Proponent	Philippine Infradev Holdings Inc. 35/F Rufino Pacific Tower, 6784 Ayala Avenue, Makati City Antonio L. Tiu President and CEO
	City Government of Makati Barangay Poblacion, Makait City Hon. Mar-Len Abigail Binay City Mayor
Name of Consultant	Lichel Technologies Inc
Consultant's Address	1403 Prestige Tower Condominium F. Ortigas Jr. Road Ortigas Center Pasig City.
Contact Person	Rachel A. Vasquez
Position/ Designation	Managing Director
Contact No	T: (02) 6330094 F:(02) 6378209
E-mail Address	ravasquez@licheltechnologies.com
Estimated Project Cost Php 151,857,675,296.23 (US\$ 2,883,410,000.00)	

Table 1: Project Information and Summary of Project Components

Operation Details			
	Day 1	Ultimate Phase	
Passenger Demand (pphpd- passenger per hour per direction)	21,000 pphpd	31,300 pphpd	
Operating Hours	18 hours (h)		
Maximum Train Speed	80km/h		
Train Capacity		40 m long, 225 pax/car) 0 pax	
Journey Time (Round Trip)	33.4 minutes (min)		
Peak headway	3 min	2 min	
Off-Peak Headway	6 min	4 min	
Train in service	12	8	
Train Dimension			
	DM-car (m)	M-car/T-car (m)	
Length	24.4 m	22.8 m	
6-Car Train Length	140		
Width (at door threshold)	3		
Height (from top of rail)	3.81		
Nominal car floor height (from top of rail)	1.13		
Door Opening Width	1	.40	
Tunnels			
Radius			
Preferable Minimum Radius	300 m		
Absolute Minimum Radius	250 m		
Difficult Situation Radius	225 m		
Preferable Gradient	3%		
Difficult Gradient	3.50%		
Minimum Radius at Station	2000m		



PHILIPPINE INFRADEVE HOLDINGS INC.

2 INFORMATION DISSEMINATION AND STAKEHOLDER ATTENDANCE

Information dissemination about the public hearing for the proposed project, including follow-up visit and coordination was conducted from September 3, 2019 to September 20 2019. Newspaper notice was published on September 6, 2019 and September 13 2019 (**Annex 1**). On the other hand, the Notice of Public Hearing was also posted in the EMB website last September 2, 2019 (**Annex 2**). At the ground level, written invitations were distributed to the Local Government Units, Barangay Officials, concerned National Government Agencies, Non-Government Organizations, and other stakeholders. Received invitation letters and complete attendance sheet are attached as **Annex 3** and **Annex 4**. Representatives from the following sectors/offices/barangays were present during the Public Hearing:

- Department of Transportation
- Department of Transportation- Rail Sector
- Department of Transportation- MRT3/OOD
- Environmental Management Bureau- Department of Environment and Natural Resources
- Philippine Infradev Holdings Inc.
- City Government of Makati
- Department of Environmental Services- Makati City
- Urban Development Department- Makati City
- University of Makati
- City Social Welfare and Development Office- Makati
- Ospital ng Makati
- Consultants of City Government of Makati
- Lichel Technologies Inc
- Office of the Vice Mayor
- Homeowners Associations of Guadalupe Mansions
- Homeowners Associations of Guadalupe BLISS
- Barangay San Antonio
- Barangay Cembo
- Barangay West Rembo
- Barangay San Lorenzo
- Barangay Valenzuela
- Barangay Guadalupe Nuevo
- Barangay Olympia

The Public Hearing was held last September 23, 2019 at HPSB Multimedia Room 507, University of Makati. The activity started around 9:30 am by discussing the prepared brief presentation on Environmental Impact Assessment (EIA) process, project description and results of the EIA. Afterwards, an open forum was facilitated to solicit the stakeholders' issues, concerns and recommendations for consideration in the EIA study.



PHILIPPINE INFRADEVE HOLDINGS INC.

3 ISSUES AND CONCERNS RAISED

The list of major issues and concerns gathered during the public hearing is summarized in Table 2.

Table 2: Issues and Concerns raised during the Public Hearing

Person	Issues and Concerns F	Response
Mr. Alejo Mayolargo (Barangay San Lorenzo)	 What is the actual status of the project? Are we just in the phase of Environmental Impact Assessment or the construction is about to start? Two stations are located in Barangay San Lorenzo (Ayala Avenue and EDSA Corner and Paseo de Roxas and Ayala Corner). What are your mitigating measures in terms of traffic since the area is within the Central Business District of Makati? Will there be totally no stations at Ayala Avenue and EDSA Corner and Paseo de Roxas and Ayala Corner? 	 Any development project requires Environmental Impact Assessment to secure the Environmental Compliance Certificate from the Department of Environment and Natural Resources (DENR). At this point, we are in the stage of reviewing/evaluating the prepared Environmental Impact Statement as required by PD 1586 or the Establishment of Philippine Environmental Impact Statement System Law. Philippine Infradev Holdings Inc. has just entered into Joint Venture Agreement (JVA) with the City Government of Makati. All PPP rules in the JVA are being done parallel with other prerequisite activities. In terms of traffic, the proponent is also looking into other Alternatives, such as transferring the alignment of Station 1 and 2 (along Ayala) to Mile Long area to avoid vehicular congestion along Ayala Avenue. We are still in the phase of looking the most suitable area for the stations, which is the Detailed Engineering Design (DED). Mile Long will still be considered as an alternative alignment since it will be a great opportunity for interconnectivity. In fact, DOTR has plans to develop PNR Stations and Mile Long is probably 300 meters away from the nearest PNR station. Generally, we are still looking into other alternatives before we come up with the final plan for the project.
	 Are you having coordination with different groups within Makati like MAPSA, MAPA? 	 In fact before the project starts, there will be dry runs to initially identify the traffic to be experienced during the implementation. In addition existing traffic management plan of the City may be adapted
	5. It is our responsibility to coordinate with you the status of the project so we can	to ease the road condition. 5. The proponent will need much support from the barangays.



	relay it to our constituents as we know that the project is promising.6. Are you coordinating with Ayala Land and other developers?	 The proponent is currently coordinating with the developers, including the Ayala Land.
Councilor from Barangay Cembo	Will the BLISS area along JP Rizal experience ground shaking during excavation?	The private proponent are making it possible as they can, that the alignment is the under the existing road from Ayala Avenue to JP Rizal, to avoid much disturbance among residential areas. However, it is inevitable that there will be some residents who will experience the shaking. The tunnel boring machine which will be used in the construction will go down up to at least 20 meters from the ground. According to the experts, there will be minimal shaking brought about by the tunnelling works.
Atty. Edward Ang (Hearing Officer)	Will there be properties to be affected by the project?	There will be affected structures but the project is still on the stage of finalizing the design (DED). The proponent will still look into the most practicable options to lessen the affected structures/properties.
Mr. Angelito Saliendra (BLISS, Barangay Cembo)	 The depot area will be located at Guadalupe Bliss. What will happen to the residents of Phase I, II, III, and IV? Phase II to Phase IV are declared as permanent residency and Phase I is declared as long-term lease (residents still have 18 years to complete the 50 years lease contract). What will be the consequences to the residents affected by the project? Where is the proposed relocation site? Are you referring to the Environmental Guarantee Fund as the cost to be used as expenses for the resettlement matters? 	 The EIA is simultaneous with drilling activity (geotechnical investigation). Borehole locations keep on changing from time because during the initial designation of boreholes, no ground truthing has been done. Thus, the final alignment for the proposed project is not yet identified until the DED is done. As mentioned earlier, the proponent is trying to minimize the resettlement impact of the proposed project. However, for those who residents whose properties will be affected, there will be a prepared Resettlement Action Plan. The RAP includes the identification of project affected households, entitlement to compensation packages, and grievance redress mechanisms. The following options are identified as different forms/schemes of compensation package: In-city relocation; Cash equivalent to the zonal value of the land; Resettlement area in Binangonan Rizal (The residents do not have to worry about transportation because there are plans for a ferry service from Rizal to Makati through the Pasig River which will take approximately 30-40 minutes.)



		Moreover, the project affected households will still experience the privileges of being Makatizens after the project implementation.
Ms. Evelyn Ursua (Guadalupe Mansions)	The proponent should identify available space near Guadalupe Mansions and develop a vertical structure that will accommodate the affected households.	The proponent considered the suggestion and mentioned that that is also part of the in-city relocation scheme.
Mr. Aron Lao (DOTr)	1. What is the gauge of the rails?	1. The proponent will be implementing standard gauge with dual track system.
	2. What is the minimum velocity?	2. The lead time is approximately 3 minutes. The proponent is average speed is 60 km/hr. The train can travel from the first station up to the last station without dwell time.
	3. What is the distance between stations?	3. Most station will be one kilometre.
	Can we have the concept construction methodology?	4. Detailed Engineering Design is on-going.
	Do you have interface management plan plans for the interconnectivity with other system?	5. The proponent will make sure that connectivity with other system will be done in the future.
Mr. Jay-r Sinang (Guadalupe Nuevo)	Will there be any plans on the traffic within Guadalupe Nuevo? Considering the traffic in the area without any construction.	Traffic will be a short-term problem of the project (only during construction phase). In this regard, there will be Traffic Management Plan to be implemented by the City and the private proponent.
Mr. Ruben Santos (West Rembo)	What will happen to the people inside the subway when an earthquake occurs, since Barangay West Rembo is within the active fault line where the Big One is expected to happen?	The proposed alignment is relatively safe from the danger zone of the identified active fault. The City Government of Makati and PHIVOLCS have identified zone of avoidance (5 meters) for the said hazard. To avoid the effect of different hazards, the proponent will adapt the
		best engineering design and measures that could withstand and resist the strongest possible earthquake that may occur. In terms of safety, there will be an emergency response plan that will be implemented by the proponent.



Mr. Alfonso Rivera (Guadalupe Mansions)	Who will be serviced by the Makati Subway? The residents within Makati or the influx of people coming outside of Makati? (Currently, the problem is about the number of people from different cities going inside Makati City.)	The subway is generally intended for the residents of Makati City. It will be very convenient for the residents to move from one point to another through the subway system. For those who will be coming outside the city, there will be available parking areas/buildings to be implemented by the proponent. In addition, potential connectivity with other mode of transport will be highly considered for the convenience of the general public.
Ms. Emilia Abellera (West Rembo)	Is the subway safe in case of intense flooding?	Makati City will provide mitigating measures in the area which are susceptible to flooding. It must be noted that there are countries in which their subway system are located below sea level.
Mr. Boregas (Cembo)	There are at least three projects to be located in Makati City, one is the construction of Santa Monica Bridge, and the remaining two are the said subway and the proposed "Sky Train". Do you think it is still safe for two construction activities (above and under the ground) at the same time?	The Makati Subway will be starting its construction next year (2020) and it might have overlap with the on-going construction of Santa Monica Bridge. As a response, the Makati Subway will be done into phases to see and consider overlapping working areas with the Santa Monica Bridge. As for the sky train. DOTr should consider its plans for proper coordination.
Mr. Aloysious Menez (DOTr)	Convenience should be added to the 3- C (Connectivity, Community, and Commerce) pillars of the project. Intermodality of each mode of transportation should be highlighted and prioritized.	The proponent took note of the suggestion.
Mr. Alejo Mayolargo (Barangay San Lorenzo)	 The Barangay should conduct its own public information dissemination activity regarding the proposed project since majority of people are concentrated within the Central Business District. 	1. This will actually help the proponent.
	 The proponent will be invited by the Barangay to serve as a resource person for the project. 	2. The proponent is very much willing to serve as a resource person.
	 How is the Environmental Guarantee Fund (EGF) derived given the total project cost? 	 The EGF is based on the project cost and implementation of Environmental Management Plan and Environmental Monitoring Plan. EGF comes in two forms:



		 Environmental Trust Fund- Similar to insurance Environmental Cash Fund- Readily available fund Proposed amount of EGF is indicated in the Environmental Impact Statement to serve as a basis for the actual EGF to be agreed upon during the organization of a Multipartite Monitoring Team.
Mr. Aloysious Menez (DOTr)	 Are there provisions for the strength of materials and design of structures to be used for the project? 	 Available National and International Standards will be adapted by the project.
	 Will there be available facilities in case of disasters and emergencies? 	 Environmental Risk Assessment and Emergency Response Plan is part of the Environmental Impact Assessment. Coordination between the Local Government Unit and other relevant agencies will be strengthened to adapt measures for public safety.
	3. Most of the areas in the proposed alignment are along Pasig River which might have sandy strata, is it safe for the subway to be there?	 Geotechnical investigation in the proposed alignment is on-going to assess the underground strata of it. The result will be considered in the DED, to choose what appropriate materials and methods to be used during the construction.
	4. How was the proposed alignment chosen?	4. Based from the conducted feasibility study, the proposed alignment is feasible to work on. There will be significant mitigating measures to respond on those identified geohazards. It must be noted there are other countries where the subway system is situated alongside of a river.
Mr. Boregas (Cembo)	Will there be employment opportunities for the senior citizens and jobless?	Employment opportunities will be given to Makatizens not only during the construction phase but also during the operation phase.
Mr. Dindo Gayas (Cembo)	How many set of trains will there be? Do the car trains will be designed for both standing and sitting passengers?	There will be 6-car trains which can accommodate 200 passengers per car train. There will be standing and sitting passengers similar to MRTs and LRTs.
Mr. Romeo Millo (Cembo)	Can we have one of the train exclusive for emergency purposes? (Hospitalization of residents from 1 st district to Ospital ng Makati)	This suggestion is highly considered.
Mr. Boregas (Cembo)	Will there be connectivity within C-5?	Future connectivity are considered by the project.



PHILIPPINE INFRADEVE HOLDINGS INC.

4 PHOTODOCUMENTATION

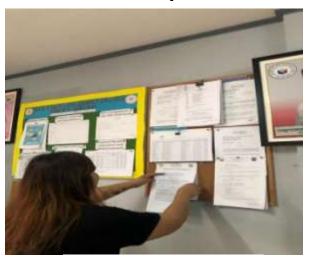
A. Posting of Notices



Makati City Hall



Guadalupe Nuevo Barangay Hall



Poblacion Barangay Hall



Olympia Barangay Hall



Cembo Barangay Hall



West Rembo Barangay Hall



PHILIPPINE INFRADEVE HOLDINGS INC.



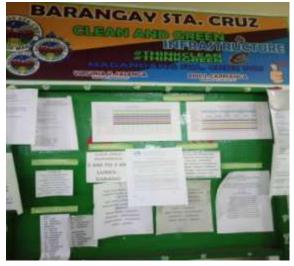
Valenzuela Barangay Hall



Bel-Air Barangay Hall



San Lorenzo Barangay Hall



Sta. Cruz Barangay Hall



San Lorenzo Barangay Hall



Urdaneta Barangay Hall



PHILIPPINE INFRADEVE HOLDINGS INC.



San Antonio Barangay Hall

Comembo Barangay Hall

B. Public Hearing | September 23, 2019 | 9:00 AM, University of Makati



Registration of Attendees



Discussion of the EIA Process



Presentation of Project Description





Presentation of EIA Results

PHILIPPINE INFRADEVE HOLDINGS INC.



Discussion of Public Hearing Mechanics



Raising of concerns during the Open Forum (A)



Raising of concerns during the Open Forum (B)



Raising of concerns during the Open Forum (C)



Responding to the concerns (A)



Responding to the concerns (B)



PHILIPPINE INFRADEVE HOLDINGS INC.

5 ANNEXES

Annex 1: Newspaper Publication

- Annex 2: EMB Website Posting
- **Annex 3: Received Invitation Letters**
- **Annex 4: Attendance Sheets**

Annex 5: Public Hearing Presentation





PHILIPPINE MANILA STANDARD PUBLISHING, INC.

AFFIDAVIT OF PUBLICATION

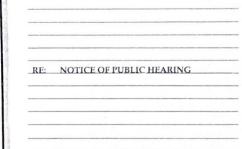
The Authorized Signatory with office address at 6th Floor Universal Re Bldg, 106 Paseo de Roxas Corner Perea St., Legaspi Village, Makati City

I, the undersigned Chief Accountant of a weekly/daily newspaper published, edited and printed in Metro Manila, with editorial and business offices at 6th Floor Universal Re Bldg, 106 Paseo de Roxas Corner Perea St., Legaspi Village, Makati City.

The Manila Standard is a newspaper of general circulations, distributed n-tionwide and as much, is qualified to published all kinds of judicial notices.

That the attached

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES ENVIRONMENTAL MANAGEMENT BUREAU



was published by the Manila Standard in its issue/s of

September 6, 2019

in witness whereof, I signed this affidavit in Makati City, Philippines, this 12TH day , 2019 of SEPTEMBER

> MARIOR. POLICARPIO JR. Authorized Signatory

SUBSCRIBED AND SWORN to before me this 12TH day of SEPTEMBER , 2019 in Makati City, Philippines, alfinity exhibiting to me his/her Residence Certaicate No. 14448279 issued at Makati on January 03, 2019

MENT ND. 264-2013-2019

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Republic of the Philippines Department of Environment and Natural Resources ENVIRONMENTAL MANAGEMENT BUREAU DENR Compound, Visayas Avenue, Diliman Quezon City 1116 Telephone Nos.: (632,627-15-17, 928-37-25; Fax No.: (632) 920-22-58 Website: http://www.emb.gov.ph / Email: mail@emb.gov.ph

NOTICE OF PUBLIC HEARING

On the ENVIRONMENTAL IMPACT STATEMENT (EIS) of the proposed MAKATI PUBLIC RAIL TRANSPORT SYSTEM PROJECT of the PHILIPPINE INFRADEV HOLDINGS, INC. AND CITY GOVERMENT OF MAKATI to be located in Makati City.

Notice is hereby given to all parties who wish to give their opinion regarding the implementation of the proposed MAKATI PUBLIC RAIL TRANSPORTATION SYSTEM PROJECT to attend the Public Hearing scheduled on:

Date	Time	Venue
23 September 2019 (Monday)	9:00 AM (Registration starts at 8:00 AM)	HPSB Multimedia Room 507 University of Makati J.P. Rizal Ext. Makati City

The Public Hearing is being conducted in connection with the review of the EIS of the aforementioned project by the Environmental Management Bureau (EMB) of the Department of Environment and Natural Resources (DENR).

All interested parties who wish to attend or participate in these Public Hearings should preferably confirm their attendance/participation and may give their opinion(s) in a concise position paper to the ENVIRONMENTAL IMPACT ASSESMENT AND MANAGEMENT DIVISION (EIAMD) of this Office through mail or through email at eiamd.emb.co@gmail.com. at least three (3) days before the Public Hearing schedule. Those who will not be able to register or submit written positions may be given the opportunity to share their issue on the day of the hearing itself.

The project's EIS and Executive Summary for the Public are downloadable at our website: www.eia.emb.gov.ph (kindly access the Notice of Public Hearing/ Consultation linkfound in our website) while copies will be available in this Office.

For more details, please contact the EIAMD Division at this Office at telephone number (02) 920-2240 to 41 through the project casehandlers Engr. Regina Paula Eugenio and Engr. Dexter Tabada.



PHILIPPINE MANILA STANDARD PUBLISHING, INC.

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

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For more details, please contact the EIAMD Division at this Office at telephone number (02) 920-2240 to 41 through the project casehandlers Engr. Regina Paula Eugenio and Engr. Dexter Tabada.

MS-SEPT. 13. 201

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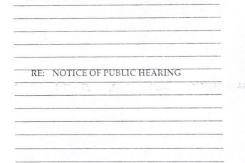
The Authorized Signatory with office address at 6th Floor Universal Re Bldg, 106 Paseo de Roxas Corner Perea St., Legaspi Village, Makati City

I, the undersigned Chief Accountant of a weekly/daily newspaper published, edited and printed in Metro Manila, with editorial and business offices at 6th Floor Universal Re Bldg, 106 Paseo de Roxas Corner Perea St., Legaspi Village, Makati City.

The Manila Standard is a newspaper of general circulations, distributed nationwide and as much, is qualified to published all kinds of judicial notices.

That the attached

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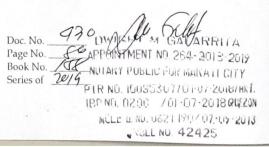
was published by the Manila Standard in its issue/s of

September 13, 2019

in witness whereof, I signed this affidavit in 18TH day Makati City, Philippines, this SÉPTEMBER _, 2019 of

> MARIO R. POLICARPIO JR. Authorized Signatory

SUBSCRIBED AND SWORN to before me this 18TH day of _____SEPTEMBER , 2019 in Makati City, Philippines, affinity exhibiting to me his/her Residence Certificate No. 14448279 issued at Makati on January 03, 2019.



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Posted on Monday, 02 September 2019

Proposed Project: Makati Public Rail Transport System Project

Proponent Name: Philippine Infradev Holdings, Inc. and City Government of Makati

Project Location: Makati City

Date and Time: 23 September 2019 (Monday) / 9:00am (registration starts at 8:00am)

Venue: HPSB Multimedia Room 507 University of Makati J.P. Rizal Ext., Makati City

» Notice of Public Hearing, EIS Report, ESP in English Version, ESP in Filipino



4 September 2019

Ms. Mar-Len Abigail Binay-Campos Mayor Office of the Mayor - Makati Makati City Hall, JP Rizal St., Brgy. Poblacion, Makati 1200 Metro Manila, Philippines

Dear Ms. Binay-Campos:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register in person or submit your opinion(s) in a concise position paper to this Office or email it at eiamd.emb.co@gmail.com/eia@emb.gov.ph three (3) days before the said hearing. Those who will not be able to register or submit written positions may be given the opportunity to share their issues on the day of the hearing itself.

Herewith is the project's Executive Summary for the Public (ESP) for your reference. The project's Environmental Impact Assessment (EIS) is downloadable at our website: **www.eia.emb.gov.ph** (kindly access the Notice of Public Hearing/ Consultation link found in our web page). The copies of the ESP and EIS are available in this Office and in the following offices:

1) EMB NCR

Address: East Ave., Diliman, Quezon City, 1101 Metro Manila Telephone No.: (02) 931-2397

2) City Government of Makati

Makati City Hall, JP Rizal St., Brgy. Poblacion, Makati, 1200 Metro Manila

For more details, please contact the Environmental Impact Assessment and Management Division (EIAMD) of this Office at Tel. Nos. (02) 920-2240 to 41 and look for the project case handlers **Engr. Regina Paula Eugenio** and **Engr. Dexter Tabada**.

Sincerely yours,

#0873	870-1194 Frankie
Date Received:	Sept. 10, 2019
Time:	12:55 pm
Name of Bearer:	
Received By:	TESS

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



18th

4 September 2019

Ms. Monique Yazmin Maria Lagdameo Vice Mayor Office of the Vice Mayor - Makati Makati City Hall, JP Rizal St., Brgy. Poblacion, Makati 1200 Metro Manila, Philippines

Dear Ms. Lagdameo:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

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For more details, please contact the Environmental Impact Assessment and Management Division (EIAMD) of this Office at Tel. Nos. (02) 920-2240 to 41 and look for the project case handlers **Engr. Regina Paula Eugenio** and **Engr. Dexter Tabada**.

Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division





4 September 2019

City Legal Officer Makati City

Dear Sir/Madam:

SEP 1 0 2019 870-1138 899-8935

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division





4 September 2019

City Planning and Development Office Makati City

Dear Sir/Madam:

We are pleased to invite you to attend the **Public Hearing** of the proposed **Makati Public Rail Transport System Project** of the **Philippine Infradev Holdings**, Inc. and City **Government of Makati**. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 **AM** (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, **University of Makati**, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



Protect the environment... Protect life ...

04



4 September 2019

Makati PPP Selection Committee Makati City

Dear Sir/Madam:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERÁNZA A. SAJUL Chief, EIA and Management Division





4 September 2019

City Environment and Natural Resources Office Makati City

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division





4 September 2019

City Social Welfare and Development Office Makati City

Dear Sir/Madam:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



Protect the environment... Protect life ...

-1634



4 September 2019

Dr. Vergel Binay Medical Director Ospital ng Makati

Dear Dr. Binay:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

OSPITAL NG MAKAT OFFICE OF THE MEDICAL DIRECTOR

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



Website: http://www.emb.gov.ph

4 September 2019

Mr. Ricernesto Moya Barangay Chairman Barangay San Lorenzo Makati City

Dear Mr. Moya:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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BARANGAY	SAN LORENZO	ENGR. ESPERANZA A. SAJUL Bulfazan Chief, EIA and Management Division
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4 September 2019

Mr. Romeo B. Millo Barangay Chairman Barangay Cembo Kalayaan Avenue, Cembo Makati City

Dear Mr. Millo

We are pleased to invite you to attend the **Public Hearing** of the proposed **Makati Public Rail Transport System Project** of the **Philippine Infradev Holdings**, Inc. and City **Government of Makati.** The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 **AM** (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, **University of Makati, JP Rizal Ext.**, Makati City.

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Sincerely yours,

Office of the Punono Balanga ok al12 Date: Time:

519-78-03

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



4 September 2019

Mr. Restituto E. Cajes Barangay Chairman Barangay San Antonio 8537 Caong St., San Antonio Makati City

Dear Mr. Cajes:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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BARANGAY SAN ANTONIO MAKATI CITY	garrigen
RECEIVED BY:	ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division
BY EVA	ph
DATE 9-10-19 896	42 65



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DENR Compound, Visayas Avenue, Diliman Quezon City 1116 Telephone Nos.: (632) 927-1517, 928-3725; Fax No.: (632) 920-2258 Website: http://www.emb.gov.ph

4 September 2019

Ms. Virginia V. Salenga Barangay Chairman Barangay Santa Cruz South Avenue corner Vito Cruz Sta. Cruz, Makati City

Dear Ms. Salenga:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division

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4 September 2019

Mr.

HENKICH THADDEUS M. ANGELES

Barangay Chairman Barangay Guadalupe Viejo Kaunlaran Sport Complex Guadalupe Viejo, Makati City

Dear Mr. Almario:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,



ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



4 September 2019

Mr, Michael A. Infante Barangay Chairman Barangay Valenzuela Hormiga corner Pilita St., Valenzuela, Makati City

Dear Mr. Infante:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

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ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



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4 September 2019

Mr. Manuel D. Casey *Barangay Chairman* **Barangay Olympia** Fortuna St., Olympia Makati City

Dear Mr. Casey:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

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ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division

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4 September 2019

Ms. Bernadeth Sese Barangay Chairman Barangay Guadalupe Nuevo Orense St., corner Antipolo St., Guadalupe Nuevo, Makati City

Dear Ms. Sese:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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1) EMB NCR

Address: East Ave., Diliman, Quezon City, 1101 Metro Manila Telephone No.: (02) 931-2397

2) City Government of Makati

802.1992

Makati City Hall, JP Rizal St., Brgy. Poblacion, Makati, 1200 Metro Manila

For more details, please contact the Environmental Impact Assessment and Management Division (EIAMD) of this Office at Tel. Nos. (02) 920-2240 to 41 and look for the project case handlers Engr. Regina Paula Eugenio and Engr. Dexter Tabada. 15/19810 - Jufra Mr. Ailan

LARANCAY DE ADALUEE NUEVO OF THE CHARMAN **JFFICE** RECE VER S. MARKER S. TULIO DATE SEPT 12, 2019 TIME 4:20 PM FILTN 882-19-92

Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



4 September 2019

Mr. Benhur L. Cruz Barangay Chairman Barangay Poblacion J. Rizal corner D.M. Rivera St., Makati City

Dear Mr. Cruz:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

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Sincerely yours,

ENGR. ESPER

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division

2393880

BIANCA MARIE N. RACADIO Accounting-Barangay Poblacion

Protect the environment... Protect life...

9-12-19 4:46 pm



4 September 2019

Ms. Thelma Ramirez Barangay Chairman Barangay East Rembo 7th Avenue & JP Extension East Rembo, Makati City

Dear Ms. Ramirez:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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For more details, please contact the Environmental Impact Assessment and Management Division (EIAMD) of this Office at Tel. Nos. (02) 920-2240 to 41 and look for the project case handlers **Engr. Regina Paula Eugenio** and **Engr. Dexter Tabada**.

21 1405 725-151

Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division

28/588



4 September 2019

Ms. Marilou B. Dilla *Barangay Chairman* **Barangay West Rembo** Makati City

Dear Ms. Dilla:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

WEST SE ALBE Office of By: Data Time UNA POILO 8369732 ol

ENGR. ESPERANZA A

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



4 September 2019

Mr. Jonathan David General Manager Makati Commercial Estates Association

Dear Mr. David:

MARATI CEN	TRAL	ESTATE	ASSN.,	INC.
By		with E	-ingernal	
Date	SEP	1 9 2019		

7527024

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



Republic of the Philippines Department of Environment and Natural Resources ENVIRONMENTAL MANAGEMENT BUREAU DENR Compound, Visayas Avenue, Diliman Quezon City 1116 Telephone Nos.: (632) 927-1517, 928-3725; Fax No.: (632) 920-2258

Website: http://www.emb.gov.ph

4 September 2019

Mr. Richard P. Peralta Barangay Chairman Barangay Comembo JP Rizal Extension, Comembo Makati City

Dear Mr. Peralta:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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Sincerely yours,

DAROLLIE A. LUCAS Brgy. Bookkeeper

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division



Republic of the Philippines Department of Environment and Natural Resources ENVIRONMENTAL MANAGEMENT BUREAU DENR Compound, Visayas Avenue, Diliman Quezon City 1116 Telephone Nos.: (632) 927-1517, 928-3725; Fax No.: (632) 920-2258

Website: http://www.emb.gov.ph

4 September 2019

Ms. Constancia Q. Lichauco Barangay Chairman Barangay Bel-Air Makati City

Dear Ms. Lichauco:

We are pleased to invite you to attend the Public Hearing of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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BARANGAY BEL-ANR Received by $\frac{9\pi easlax}{9/09/19}$ Time $\frac{8:23 P.M.}{2}$ Sincerely yours,

ENGR. ESPERANZA A. SAJUL

Chief, EIA and Management Division

3954012 he 203



4 September 2019

Mr. Leonard Y. Alandy Dy Barangay Chairman Barangay Urdaneta

Dear Mr. Dy:

We are pleased to invite you to attend the **Public Hearing** of the proposed Makati Public Rail Transport System Project of the Philippine Infradev Holdings, Inc. and City Government of Makati. The said hearing is scheduled on 23 September 2019 (Monday) at 9:00 AM (registration starts at 8:00 AM) and will be held in the HPSB Multimedia Room 507, University of Makati, JP Rizal Ext., Makati City.

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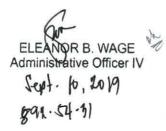
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Sincerely yours,

ENGR. ESPERANZA A. SAJUL Chief, EIA and Management Division





ATTENDANCE

Activity	Public Hearing of Proposed Cabano Small Reservoir Irrigation Project of National Irrigation
Date/Time and	Administration VI August 23, 2019(9 a.m.)
Venue	Legislative Building., San Lorenzo Guimaras

Name Company/Agency Contact No. Signature Jose Paolo Aragonalo DEM2-EMB 9202240 cago the ELER ROMELITO T. CERVANTES MAKATI-DES 870-1669 Richard Anna Intradu 750-2111 FERDINGINO ADNOUILLO MMDA russellatham oletal 8820974 RUSSEL MOLEDO MMOB 09156233 390 MMDL DI GH UM PORTILLAND DES IM. R. EXITERED 09272741878 Josep GMP Ø (EMBI) West Rembo 0947442 90 NOV RELIND 0921-2578911 EMILIA DUBOTC, ABBLATHA Escalullun RVD CEMBO 09288630590 Rey UMAK-09332183144 PABINA. VILLAJUSA . UFINO RACIER A. VAIRVER 633-0094 $(\Pi$



ATTENDANCE

Activity	Public Hearing of Proposed Cabano Small Reservoir Irrigation Project of National Irrigation Administration VI
Date/Time and Venue	August 23, 2019(9 a.m.)
	Legislative Building., San Lorenzo Guimaras

Name	Company/Agency	Contact No.	Signature
Eilun R. Doswja	City Gov't Makati MSWD - MOURHB	09547597430	dleden
Alty Michael Artin R. Camina	City Gord of Makati	09178446735	×-
Joseph Aron Lao	Department of	mays 09452015748	A
Ada LECIEN GOMEZ	A2M 847	09394493934	milia
Manie Concepcion Aulo	DOTr-Rail	09261911408	- file
Romes J. Moran	BLMM BRADA	0932-2882(0	e Am
BMAYA YAODOT	GULO-MANSVAY	0917912894	a fir
MARISSA FERROLINE		0428 906 2901	1 AND
MA, CATURINA VAURENK		0999-9206005	boto
Holson Cotipon	Osmok	0925376786	*
BETA DE LEGO	BRETY. SAN LOKET		any
Jod Saley	By Som Jatom	8927217-8440	-11
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ATTENDANCE

Activity	Public Hearing of Proposed Cabano Small
	Reservoir Irrigation Project of National Irrigation
	Administration VI
Date/Time and Venue	August 23, 2019(9 a.m.)

Legislative Building., San Lorenzo Guimaras

Name	Company/Agency	Contact No.	Signature
MICAH GAYLICAN	CITY GOVERNMENT OF MAKATI	09774728699	moro
JESUS 7. Durelyn.	CIM GOVE OF	870 - 1789	for
Sennifer ang	Consultant for Makat	09223314757	7M
Mari Paz Luna	Consiltent for Nakati	0917900 305	Cmf
ROYANO PSHUNO		0917-723928	r hen
Anadeto Suelta	2-71	09175304112	Alsul.
SAPRAH YEE	MSCOD-15005	8701647	seg
EDMUNDUVERGE	R ELAREVCOM	09219845175	X
PEXICA TABADA	EIAMO	9202240	the
RICARDO ILAW	EMB		Afin
nathaniel T. Li,	n Byz Valayala	V19-9034 C	K
KEDUATIZSINANG		09173870958	-
JEFFREY CALM	BREY NUELO	09475138	
MA. WERMAGALANG		09357151031	deplay
Long T. Amon		101-72-99	Arrow



ATTENDANCE

Activity	Public Hearing of Proposed Cabano Small Reservoir Irrigation Project of National Irrigation
	Administration VI
Date/Time and Venue	August 23, 2019(9 a.m.)
	Legislative Building., San Lorenzo Guimaras

Name	Company/Agency	Contact No.	Signature
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May Carlo Montonly	ę 11	09306496055	me gnentealize
Hon. Manque Lagolarie	OVM	09178428413	Alburgue V. Augolouse
	Bagy. Valund		G. J. O. J.
aillen S. Cogent	Brgy. Gucol. Nu	0 093574,4276	and
SINTHUR Q. SAUSS	13mg. WEST NEME	09107843084	144
KAP. POMES MIL	to comp	09151720388	Ce /
Kaz Boregas	Compo	091782258	8 1
PECTEVANGE	WHAL LTL	09/98739/	2 B
Lynnette Lyzelle S. Ferrer	. LЛ	09186278644	Rippun
MILSOY ADAT	vn	09267205703	Lemy .
MARK ABREAUCA	ln	633-1094	Allto
JEMAR (- BAJONEZ	(51)	09772759193	Chang



ATTENDANCE

Activity	Public Hearing of Proposed Cabano Small
	Reservoir Irrigation Project of National Irrigation
	Administration VI
Date/Time and Venue	August 23, 2019(9 a.m.)
	Legislative Building., San Lorenzo Guimaras

Company/Agency Contact No. Signature Name GUDDKWPE MKNSIDN 09275793350 CONSOLITA TOTADES 09260138023 MARIAN DE CASTRO 09451948695 Infrader Has 07155639355 FAT Cle BULL SIS LOVERS cm FRED SIBUG 0920949833 MAYORALD 09171796236 LEO BRGY. VALENZULA 09456898222 ERLAN NABUA BRGY 60AD NAEVO CHRISTOPHER GALLA ANGELITO SALIENDRA BLOG. 1 -584-104 0928 WEST REMADO ALCOMMEANN O WHEL ARTHUR GALLWAT UT1 Cinva 896-87-75 ANDER

MAKATI PUBLIC RAIL	8:0
TRANSPORT SYSTEM PROJECT	9:0
	9:3
PUBLIC HEARING	PN
September 23, 2019 University of Makati	1:0

TIME	PROGRAM OF ACTIVITIES	PERSON RESPONSIBLE
8:00 - 9:00 AM	Registration	Proponent/Preparer
9:00 - 9:30 AM	Invocation	LGU
	National Anthem	LGU
	Opening Remarks	Proponent
	Briefing and Orientation on the purpose of the Public Hearing	EMB Engr. Jose Paolo Aragoncillo
	Rules on the Conduct of Public Hearing	Hearing Officer Atty. John Edward Ang
9:30 - 10:00 AM	Presentation on the description of the Project including alternatives	Proponent/Preparer
	Presentation of the EIA Study process and results	
10:00 AM - 1:00 PM	Open Forum	Hearing Officer Atty. John Edward Ang
1:00 - 1:30 PM	Recapitulation of issues raised and the proponent's response	Hearing Officer Atty. John Edward Ang
	Next Steps	EMB Engr. Jose Paolo Aragoncillo

Project Description



MkTR AT A GLANCE

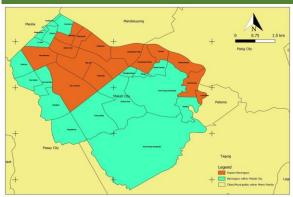
- Legacy PPP Project of Makati
- 10 Kilometers, 10 Stations, 10 Minutes
- Underground railway, six car trains, max 80 kph, 3 minute interval
- Connects District 1 and District 2
- Opportunity to interconnect with MRT, PNR Train, Metro Manila Subway, Skyway and Pasig River Ferry
- Development of surrounding areas into Transit Oriented Developments
- Operational by 2025





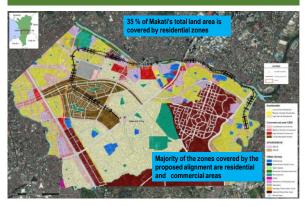
Environmental Impact Assessment Results

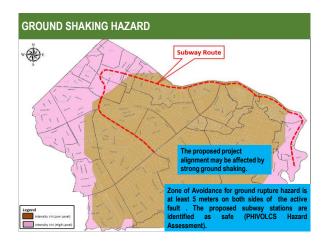
IMPACT AREAS



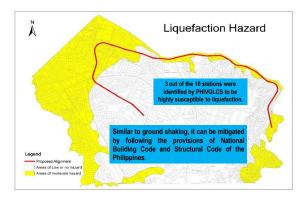


LAND COVER MAP





LIQUEFACTION MAP



GROUND MOVEMENT

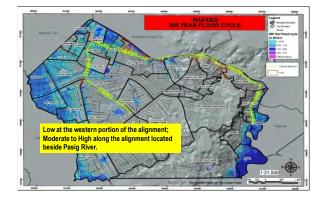


Changes in the underground condition could occur as a result of the excavations. Shallow groundwater in the project area would also exert pressure that could produce seepage.

Without adequate support during the construction and operation of the subway to resist these loads, ground movement could occur that could lead to the collapse of the excavation and could potentially impact the structures near the excavation.

The excavation works will have temporary support to maintain stability. The tunnel will be designed to withstand the permanent loads including all worst-case combination of applied loading and effect without causing distress during the design life of the tunnels.

FLOOD HAZARD



TERRESTRIAL FLORA AND FAUNA



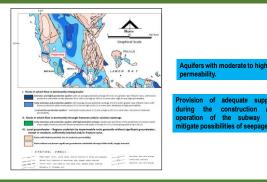
FLORA	 Trees and ornamental plants will be temporarily cleared in the depot area to give way for structures during the construction phase -Unnecossary clearing of vegetation should also be practiced in the construction phase to maintain soil protection in some areas of the depot. -From the inventoried area, 3 spacies are listed as endemic or can mostly be found within the country. These spacies include Nigog niyogan (Ficus pseudopatha), Is-is (Ficus uninfolio) and Benjamin's Fig (Ficus benjamina).

 Since majority of the construction and operation phases of the Project are conducted underground, there will be minimal impacts experienced by faunal groups. Faunal species on the depot area are already mostly domesticated and adjusted to urban setting, thus the impacts on fauna are minimal

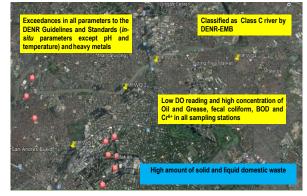
FAUNA

WATER

HYDROGEOLOGIC MAP



SAMPLING STATIONS (WATER QUALITY)



PROPOSED MITIGATING MEASURES

 Possibilities of oil and grease spills in the equipment maintenance area must be avoided through proper housekeeping, regular inspection of working areas, proper maintenance and provision of waste containment area for filters and other consumables.

• Strengthen the implementation of Makati City's Solid Waste Management Program/Plan that will address the domestic solid wastes.

PASIG RIVER



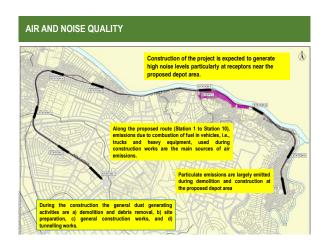


GREENHOUSE GAS EMISSIONS



SAMPLING STATIONS (AIR AND NOISE QUALITY)





AIR QUALITY RULES AND REGULATION

Philippine Clean Air Act and its implementing rules (Section 13a, Rule XXV)- prohbit emissions of fugitive particulates (mg adog) from any other source without taking reasonable precautions to prevent such emission (whicular movement, transportation of materials, construction, demolition or wrecking or industry related activities such as loading, storing or "handling")

Nuissance (Article 694 of Republic Act No. 386 (Civil Code of the Philippines)

- 1)
- 2) 3)
- Annoys or offends the senses; or Shocks, defies or disregards decency or morality; or Obstructs or interferes with the free passage of any public highway or street, or any body of water, or Hinders or impairs the use of property.
- 4)





BASELINE CHARACTERISTICS

DEMOGRAPHY





Hé barangays in Makat Cay are covered by the proposed alignment Barangay West Rembo is the most populous barangay with a population of 28.889 Barangay Poblacion registered the highest increase (2010 to 2015) at 3.26%, Total population of the Larangays accounts for the 4.89.89% of Makat Clys total population in 2015 EDUCATION. As of 2015, there are a total of 137 public and 250 pri schools in Makati City. ACCESS TO BASIC SERVICES SANITATION AND WATER SUPPLY. The Manile Water Company, Inc. (MWCI) and Mayniad Water Services, Inc. (Mayniad) supplies potable water for residential, commercial, and industrial purposes in Makati City (City Government of Makati, 2013).

POWER. The Manila Electric Company (MERALCO), is the sole electric distributor in Metro Manila that provides electric power supply connections in all barangays of the city.

<u>COMMUNICATION.</u> The Philippine Long Distance Telephone Co. (PLDT), Globe Telecom, Bayan Telecommunications (Bayantel) and Digtel Telecommunication Philippines, Inc. (IG/GTL), all provide telecommunication facilities. Cellular, radio facilities and other wireless communication services are provided by Smart Communications, Globe Telecom, and Sun Cellular

BASELINE CHARACTERISTICS



ACCESS TO BASIC SERVICES	Transportation. Read Methods, and Tarlife. The most common means of travel in the dry is individual filteration of the state of the state. The Paug Rover Ferry Service provides water-based transt that services Maked CV in two stations: Watercaules Staten and Quadutupe Staten. An informal board stystem called dawiran is also used to cross the Paug River to and from the adjacent chy of Mandaturoga.				
HEALTH	+Heart Diseases remained the leading cause of mortality for all ages over the three- year period and doely followed by Cancer and Pheumonia Upper Reprisely Tract Infection (URT) and doely followed by Urinary Tract Infection (UTI) remained the leading causes of morbidity for all ages over the three- year period.				
LOCAL ECONOMY	Services, Trade, Banks and Finances, Regular Employment, (Private and Public), Commercial Businesses				
PERCEPTION SURVEY	The following were the perceived banefits of the project: Local employment; Influx of busites; Improved mobility, Better infrastructures Identified problems during construction: Displacement of settlers, Vehicular congestion, Waste Management				

PEOPLE

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IMPACTS	MITIGATING MEASURES/ ENHANCEMENTS			
Improved Mobility	Expected shift of commuters from road-based to rail-based transport system.			
Attraction for future development	Enable for Makati a rebirth of its urban identity, to supplement the traditional Central Business District core of Makati.			
Displacement of Settlers and	Preparation of the Resettlement Action Plan (RAP), which is currently being processed. The RAP will			
Properties	include details of the relocation such as possible relocation site(s), compensation package and grievance redress mechanisms.			
Employment Opportunities	Priority of hiring of qualified laborers are given to the residents of Makati City.			
Traffic Congestion	Traffe: Management Pan (TMP) should be prepared and strictly enforced during the construction period Schedule the delivery of materials to avoid peak traffic hours as much as practicable Ensure that pedestrians and other vehicles will be able to safely access roads that will be used and affected during the construction phase of the Project; Provide appropriate road safely signages in the vicinity of the construction site; Scheduler and and hold pedscurs in sections; and Coordinate with the Makati CMy Government to provide sufficient traffic enforcers to direct traffic and not allow vehicles to park on the side of the affected roads especially during peak hours to avoid blocking traffic.			
Accidents to workers and exposure to occupational hazards	 Preparation and implementation of an Occupational Health and Safety Management Plan which will be aligned with the policy of the mandating agency, the stinct implementation of procaduroas, safety and security measures to ensure safe, fast, efficient and reliable transportation services 			

MULTI PARTITE MONITORING TEAM (MMT)

The functions of MMT are as follows:

- Monitor <u>project compliance</u> with the conditions stipulated in the ECC and the EMP;
- · Validate proponent's conduct of self-monitoring;
- Receive and validate complaints and transmit to the proponent and EMB the recommended measures to address the complaint;
- Prepare, integrate and disseminate simplified monitoring reports to community stakeholders; and
- · Make regular and timely submission of MMT Report

ENVIRONMENTAL GUARANTEE FUND (EGF)

 Immediate rehabilitation of areas affected by damages as a direct consequence of project;

•Just compensation of parties and communities affected by the negative impacts of the project;

•Conduct of scientific or research studies related to the project that will aid in the prevention or rehabilitation of accidents and/or environmental damages; and

•Contingency clean-up activities, environmental enhancement measures, damage prevention programs and social equity measures

EXISTING ENVIRONMENTAL LAWS AND REGULATIONS

- <u>Philippine Clean Water Act of 2004</u> (Republic Act No. 9275) and its implementing rules (DAO 2016-08)
- Philippine Clean Air Act of 1999 (Republic Act No. 8749)
- <u>Toxic Substances and Hazardous and Nuclear Wastes Control Act of</u> <u>1990 -</u> Republic Act No. 6969
- RA 9003- Ecological Solid Waste Management Act
- <u>Presidential Decree No. 1586 in 1968</u> Establishing an Environmental Impact Statement System including other environmental mgt measures and for other purposes
 - Revised Procedural Manual of DENR AO 2003-30
 - DENR AO No. 2017-15 Guidelines on Public Participation under the Philippine EIS System
- · And other environmental laws and regulations

THANK YOU SO MUCH

