



The New Centennial Water Source –
Kaliwa Dam Project

PUBLIC HEARING
IN TERESA, RIZAL

Covered Courts

27 AUGUST 2019

9:00 a.m. – 11:45 a.m.

06 SEPTEMBER 2019



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1 LOCATION AND TIME

This is the second Public Hearing for the project, entitled, “The New Centennial Water Source – Kaliwa Dam Project”. This was held at the Ynares Covered Courts of Teresa, Rizal on 27 August 2019 from 9:00 a.m. – 11:45 a.m.

2 PREPARATION

The preparatory activities for this Public Hearing included informing the stakeholders about the event through publication in the newspaper and general circulation, posting of tarpaulins in conspicuous places within the municipality, personal invitation and dissemination through phone calls and text messages. Based on the Affidavit of Publication as presented in Annex 1, the Notice of the Public Hearing was published in Philippine Star on 8 and 15 of August 2019.

There was close coordination with the local government unit (LGU) and all key stakeholders, property owners, and other constituents in the locality for the preparation of this public hearing.

ANNEX 1: ATTENDANCE SHEET

3 PURPOSE OF THE PUBLIC HEARING

The main objective of the Public Hearing was to provide an in-depth discussion on the project details and the Environmental Impact Assessment (EIA) study on Kaliwa Dam Project. The participants were enjoined to provide feedback and opinions as regards the provided presentations, as well as their issues and concerns. In order to properly document the public hearing, the proponent prepared video and audio recorders, as well as documentors to capture the salient points of the discussions.

4 HIGHLIGHTS OF THE PUBLIC FORUM

The public hearing was called to order at 9:00 a.m., with Engr. L. Ramboyong presiding. Ms. Olivia Santiago of the Parish Pastoral Council led the invocation, followed by the singing of the National Anthem. There were 208 participants, with 130 male and 78 female, registered in the attendance sheet.

ANNEX 2. AFFIDAVIT OF PUBLICATION IN PHILIPPINE STAR

4.1 MESSAGES

4.1.1 Mayor Raul Palino of Teresa, Rizal

- He acknowledged the presence of the municipal and barangay officials of Teresa, local groups and organizations, government agencies and private sectors. He informed the body that the Office of the Mayor was informed through a letter from the Department of Environment and Natural Resources – Environment Management Board (DENR-EMB) about the need to hold a public hearing on the Kaliwa Dam Project in Teresa, Rizal.
- He clarified that no dam would-be built-in Teresa, but instead a Water Treatment Facility. He further explained that the water from Kaliwa Dam would flow through the tunnels and to the treatment facility before the water can be distributed to the households.
- On a final note, he cited that this project was part of the major plans under the Duterte Administration; thus, he enjoined everyone to participate actively in the open forum to ensure that all issues and concerns could be properly addressed.

4.1.2 Engr. Leonor C. Cleofas, Deputy Administrator of MWSS

- She thanked the warm welcome from the LGU of Teresa. Thanked all the participants for attending the public hearing inspite of the cancellation of classes due to the inclement weather.
- She cited that aside from Rizal, some areas of Cavite, whole of Metro Manila and the province of Bulacan, would all benefit from the Kaliwa Dam Project. She higlighted the importance of Kaliwa Dam as the best alternative from Angat Dam, given the current water demands.
- She assured everyone that all concerns would be addressed by the entire Project Team and the Consultants during the Open Forum.

4.2 RECOGNITION OF PARTICIPANTS

Engr. L. Ramboyong recognized the presence of the following:

1. Hon. Raul Palino - Mayor, Teresa, Rizal
2. Hon. Jose. S.D. Villegas - Vice Mayor, Teresa Rizal
3. Municipal Councilors - Teresa LGU
4. Barangay Captains - Teresa LGU
5. Engr. Regina Paula Eugenio - Environment and Management Bureau (EMB), DENR
6. Engr. Lene Ramboyong - DENR-EMB
7. Atty. James Edward Ang - Public Hearing Officer, DENR-EMB
8. Jess Javier - FMB
9. Jess Toniala - Review Committee, EMB
10. Ernie Villalva - Review Committee
11. Daniel L. Garino - Review Committee, BMB
12. Representatives from the following Barangays in Teresa, Rizal:
 - o Bagumbayan
 - o Dalig
 - o Dulongbayan
 - o May-iba
 - o Poblacion
 - o San Gabriel
 - o San Roque
 - o Sto. Cristo
13. Representatives from Baras LGU
14. Representatives from Tanay LGU
15. Representatives from the following agencies:
 - o DND
 - o DILG
 - o DPWH
 - o Manila Water
 - o Maynilad
 - o MWSS
 - o EDCOP
 - o Teresa-PNP
 - o China Energy
 - o SMEC
 - o PrimeX

He also mentioned that DENR-EMB received the positions papers as submitted by the following organizations:

- Philippine Movement for Climate Justice
- Sanlakas
- Center for Energy and Ecology
- Freedom from Debt Coalition
- School of Environmental Science and Management
- Pambansang Kilusan ng Samahang Magsasaka
- Non-timber Forest Products Exchange Program, Philippines
- Prelature of Infanta Community Organization of the Philippines
- Haribon Foundation
- Sukatan LN
- Purple Action for Indigenous Women's Rights

4.3 PROGRAM FLOW

Engr. L. Ramboyong presented the program flow with the following details:

1. Engr. R.P. Eugenio to discuss the rationale and objectives of public hearing
2. Atty. J.E. Ang to discuss the rules of public hearing
3. Engr. L.C. Cleofas to present the Project Details
4. Engr. N.M. Ortigas to present the results of the Environmental Impact Assessment (EIA) Study
5. Atty. J.E. Ang to facilitate the Open Forum

4.4 OBJECTIVES AND RATIONALE OF PUBLIC HEARING

Engr. R.P. Eugenio briefly discussed the background on public hearing, its objectives and rationale. She cited that the procedure being followed in a public hearing was based on the Presidential Decree (PD) 1586 or the Philippine Environmental Impact System (PEIS). She added that all qualified projects under this law need to apply for an Environmental Compliance Certificate (ECC).

She noted that an ECC serves as a certification that the project had undergone an in-depth study of the project. It was also underscored the proponent's responsibility to provide the mitigating measures to reduce and eliminate the environmental and social risks of the project.

As a matter of procedure, Engr. R.P. Eugenio informed the body that the project had already undergone public scoping. She added that the MWSS and EDCOP has conducted also the Environmental Impact Assessment (EIA) which identified the project's impact on air, water, land and people or community. Likewise, the the study also provided certain mitigating measures to reduce or totally eliminate the identified impacts.

She explained that the public hearing forms part of the EIA study which aims to document all the concerns of the stakeholders. The inputs herein would be considered in the project review by the Review Committee (RC). The merits of the presented issues and concerns could help the project improve its plan and facilitate the appraisal of the RC members on the proposed Kaliwa Dam. As a final note, she encouraged the participants to raise all Kaliwa Dam Project-related issues and concerns during the open forum.

4.5 PUBLIC HEARING HOUSE RULES

Atty. J.E. Ang presented the public hearing house rules. He advised the participants to take note of the project preseration details and the issues and concerns that may be raised at the Open Forum proper. He reminded the participants that the queries need to be related with the presentations only. His final note for those who would raise their questions was to stay calm during the open forum and clearly cite the issues and concerns that need to be addressed by the proponents.

4.6 KALIWA DAM PROJECT DETAILS

Engr. L.C. Cleofas presented the mandate of MWSS and briefly discussed the details on Kaliwa Dam Project. She highlighted the following information:

- The MWSS Vision is to supply clean water in Metro Manila, Rizal, portion of Cavite and whole of Bulacan. It is also responsible in the sewerage and sanitation and the watershed management of the said areas.
- The Kaliwa Dam Project forms part of the Build-Build-Build Program under the Duterte Administration. It targets to deliver 600 million liters of water per day with 27.7 kilometer (km) tunnel.
- The laying of the tunnel for the dam will use the latest technology on Tunnel Boring Machine that is more efficient.
- Photos on the sample tunnel, Ipo Dam's Intake Tower and project activities were shown during the presentation.

- Some of the benefits of the dam were presented, namely:
 - Education and training programs for the Bantay Gubat and alternative livelihood
 - Boosting of local economy through employment generation
 - Putting up of the MWSS Information Center
 - Road construction
 - Enhancement of tourism in the locality
 - Development of the Emergency Preparedness Plan, including the continuous Emergency Preparedness Plan
 - Proper compensation on those who will be displaced or relocated
 - Development of resettlement areas and schools, particularly for the indigenous people (IP) groups.

4.7 SALIENT POINTS ON THE EIA STUDY

Engr. N.M. Ortigas presented the salient points of the EIA Results based on the thematic areas as follows:

- Effect of the dam on the water level in the river:
 - He noted that the dam could control the rate of water flow in the rivers of Infanta and Real. With a wall that is 60 meters high, the maximum level of water that the dam can hold is 160 meters. The dam is also said to be climate resilient that serves as an assurance that it can withstand earthquakes.
 - The protection of sacred sites in Tinipak River will be taken into consideration in enhancing the dam design.
- Impacts on the environment can be addressed by the following:
 - Waste Management Plan
 - Construction Management
 - Occupational safety and health of workers and the community
 - Immediate rehabilitation of the affected areas
 - Memorandum of Agreement (MOA) – between LGUs sa pag-aalaga ng watershed and MWSS
 - Reforestation
 - Watershed management that is integrates sustainable practices in nurturing the watershed; likewise, contributes to the biodiversity in the area
 - Empowerment of the IPs as they become part of the overall management and maintenance of the Dam Site and the ecosystem in the area.

- Indigenous Peoples Development Plan (IPDP)
 - This plan is one of the three of the Social Development Programs of the project that ensures continuous development programs for the IPs.
- Continuous coordination with partners such as the local government units and other organizations has been identified as a key component in the completion of the socio-economic studies.
- Plans for the resettlement will be shown to the people of Sitio Cablaog, with the greatest number of people who will be directly affected by the dam.

ANNEX 5 SALIENT POINTS ON KALIWA DAM PROJECT AND ITS EIA STUDY

4.8 SUMMARY OF ISSUES / CONCERNS RAISED AT THE OPEN FORUM

Atty. J.E. Ang presented the topics that were discussed at the Open Forum, such as:

- 1) Price of land for infrastructure
- 2) Importance of the project and its benefits
- 3) Concern on the posting of project details in a website for transparency
- 4) Tunnel Alignment
- 5) Employment opportunities
- 6) Concerns on flooding
- 7) Sacred sites in Tinipak River
- 8) Rationale in choosing Teresa, Rizal as the site for water treatment facility
- 9) Service improvement in Teresa
- 10) Water service in Rizal
- 11) Resettlement and relocation sites, including details on the dam site
- 12) Concerns on spillway
- 13) Irrigation for local farmers
- 14) ECC Monitoring Team

ANNEX 3.3: DETAILED MINUTES OF THE PUBLIC HEARING

The summary of issues and concerns raised are presented on Table 1.

Table 1. Summary of Issues / Concerns / Interests Raised at The Public Hearing

No.	Person who raised the concern/s and Affiliation	TAGALOG		ENGLISH	
		Concern/s Raised	Response	Concern/s Raised	Response
1	Socorro Llamas, Inquirer, Writer, President of a school	(1) Ang aking property ay may laki na 1.4 has. at napresyohan lang ng Php2 milyon. Masyado itong mababa dahil nagbayad ako ng buwis sa loob ng 40 na taon at may mga gastos tulad ng tagabantay; (2) Hindi ko maintindihan bakit pa kailangang magtayo ng dam at tapos maniningil ng mahal sa tubig. Sa Davao, wala kong binabayaran sa tubig, 10 taon na akong nakatira doon. Pwede namang magkaroon nalang ng rain collector ang kabahayan gaya ng teknolohiya ni Dr. Dar of Inquirer; (3) Dapat ilagay sa	Engr. L.C. Cleofas: (1) patuloy pa po ang ating negosasyon at pakikipag-usap, pati sa presyo ng lupa. Ang bumubili po ay MWSS, hindi po ng Manila Water o Maynilad. Kailangang mabigay lang sa amin ang katibayan ng mga binayaran. Nakikipag-ugnayan kami sa Landbank para sa pag-appraise pero hindi pa tapos; (2) Ang MWSS ay hindi kumukuha ng badyet sa gobyerno, wala po tayong pondo galing sa General Appropriations Act (GAA). Lahat ng tao kumokonsumo ng tubig at ang tubig ay nanggagaling sa bundok; kung kaya kailangan ng imprastruktura gaya ng treatment plant,	(1) My property has a total area of 1.4 has. and was only appraised at Php 2 million. This price was extremely low, given the total cost of taxes paid in 40 years and the cost of monthly expenses for my caretaker; (2) I could not understand why is there a need to put up a dam and then transfer the cost to the consumers. In Davao, where I'm residing for 10 years now, I did not pay any water bill. We can just have rain collector in every house, just like the technology developed by Dr. Dar of Inquirer; (3) I want this posted in a website so that the people would know all the details. I	Engr. L.C. Cleofas: (1) The negotiation is still ongoing, and it is MWSS that acquires properties, not Maynilad or Manila Water. We just need to receive the proof of payment for your property so we can have a better appraisal. We are in close coordination with the Landbank of the Philippines. Everything is still ongoing; (2) MWSS does not get its funds from the Government, we do not depend on the General Appropriations Act (GAA). Everyone needs the appropriate infrastructure and water treatment facility to ensure that the water to be

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		<p>website ang detalye nito. Baka puro pangako-pangako lang tapos hindi naman pala itutuloy. Baka matulad lang sa Tondo and Baseco relocation case, walang kabuhayan kaya babalik din sila. At bakit ang mga katutubo ay nananatiling mahirap? Dahil hindi maganda ang trabahong ibinibigay sa kanila. Ang tinuturong pagbuburda sa kanila, yayaman ba sila doon?</p>	<p>para pagdating sa bahay ninyo ay hindi tayo magkakasakit. Tayo ay sumusunod sa Philippine Drinking Standards na itinalaga ng DOH; (3) Makakaasa kayo na ito ay ilalagay sa website</p>	<p>hope it is not just full of promises, just like in Tondo and Baseco where people were relocated somewhere but without the sufficient and proper livelihood or source of living, they just went back to their old homes. And why do the indigenous people really remain poor? Because we don't give thm good jobs, we just teach them to do embroidery. They will not get rich with that.</p>	<p>delivered to every household is clean and safe and adheres to the Philippine Standards for Drinking Water, as per Department of Health; and, (3) I can assure you that we will post this in our website.</p>
2	Atty. Ang	Sino po ang nag-aacquire sa land?	Socorro Llamas: Maynilad, Manila Water or MWSS, Hindi ko alam...	Who acquires your property?	Socorro Llamas: Maynilad, Manila Water or MWSS, I don't know...; Engr. C.L. Cleofas: MWSS acquires the property, not Manila Water of Maynilad (this was answered by MWSS together with Issue No. 1)

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3	Edson Lee of Teresa Rizal	Hindi nakita in details kanina iyong area na daraanan ng 27.7 km. Hindi ba mas maganda na makita rito iyong pagdaraan para malaman kung sino maapektuhan ang property o hindi.	Engr. L.C. Cleofas: (ipinakita ang mapa) Ang tunnel boring machine as gagawa sa ilalim ng Sierra Madre. Ang maapektuhan ay iyong dam site at lalabasan sa Teresa. Mayroon tayong batas na kapag ang ay nasa 50m, hindi po tayo bibili ng lupa. Sa daraanan ng tunnel, ang pinakamalalim ay 700 meters, ang pinakamababaw ay 70 meters. Kaya po sa Teresa ay bumibili tayo ng lupa para sa maaapektuhan ng tunnel.	The details on the alignment of the tunnel, with a length of 27.7 km, were not clear in the presentation. It would be best to show this information so that the owners of the properties are well-informed.	Engr. L.C. Cleofas: The tunnel boring machines will work under the Sierra Madre. Some will be affected at the inlet and outlet portion in Infanta and Teresa, respectively. Areas with less than 50 meters will need to acquire property. That is why in Teresa, we have to acquire some properties.
4	Edson Lee of Teresa Rizal	Anu-anong area ang tatamaan ng tunnel? Anu-anong barangay o munisipyo iyan?	Cleofas: Ito ay dadaan sa bayan ng Baras, Morong, Tanay at Teresa. Bibigyan namin kayo ng alignment ng Tunnel Boring Machine	Which barangays or municipalities are the most affected by the tunnel?	Cleofas: Ito ay dadaan sa bayan ng Baras, Morong, Tanay at Teresa. Bibigyan namin kayo ng alignment ng Tunnel Boring Machine

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5	Socorro Llamas, Inquirer Writer, President of a school	Hindi kami klaro at walang information kung saan nga ba ito itatayo; gusto ko itong mailagay sa website; Bakit ito pinili, eh matao rito?	<p>Engr. L.C. Cleofas: Ibibigay namin ang alignment ng Tunnel Boring Machine. Makakasiguro kayo, Ilalagay namin ito sa website. Para sa inyong kaalamn, ito ay nagsimula na noong panahon ni Pang. Marcos. Naitigil lang po. Ito po ang makakatulong sa Angat, base sa pagaaral ng WB and JICA. Sa ating populasyon, 20 million, na sinusuplayan namin sa MWSS ang tubig. Iniisip namin ang seguridad ng tubig. Alinsunod din to sa Sustainable Development Goals (SDGs) na Clean Water Supply. Maraming pwedeng gawing supply ng tubig, pero mataas ang gagastusin para malinis ang water sources. Pero hindi</p>	It is not clear to us and no information is available on where it will be constructed; I want this published in a website; and, Why did you choose here, this is a populous area?	<p>Engr. L.C. Cleofas: We will provide the alignment of the Tunnel Boring Machine and it will be published in our website. For your information, this project has started during the Marcos regime, but was stopped after EDSA 1. This project is envisioned to help Angat, based on the comprehensive studies conducted by Word Bank and JICA. With a population of 20 million in the areas covered by MWSS, we are looking at the water security of these areas. This is also aligned with the Sustainable Development Goals (SDG) that is to have access to clean water supply. While it is true there are other sources of</p>

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			sustainable. Nakalagay na ito sa libro ang Kaliwa, Kanan, Agos river basin ang makakatulong sa kakulangan ng tubig sa Metro Manila.		water, but the cost of treatment is so high. This is already published in books - Kaliwa, Kanan and Agos rivers can help us achieve water security.
6	Socorro Llamas, Inquirer Writer, President of a school	I don't need answers to my questions, if we have building code published it to...	Ang: I will be deciding and acknowledging who will ask.		

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7	Romwaldo Coralde, Barangay Captain of Bagong Bayan, Teresa, Rizal	(1) Kanina pinakita ninyo na mabibigyan ang mga tao sa Teresa habang ginagawa sa loob ng tatlong taon kapag ito ay ginagawa. Paano ang susunod na panahon o taon? Wala po ba kayong plano para sa mga kababayan sa Teresa? Kung pwede ay kunin ninyo sa Teresa ang mga empleyado. (2) 2004 lumubog ang 3 bayan ng Quezon at libo-libong tao ang namatay, dito ay 2009, kung sakaling maitayo ang treatment plant? sigurado kayo na hindi magpapakawala ng tubig? Ang ilog lang po namin ay maliit. Madaling bumaha sa lugar namin. (3) Narito sa	Engr. N.M. Ortigas: (1) Una ay trabaho, sa tantya ng aming contractor ay magkakaroon ng 1,700 ng skilled and unskilled workers will be hired within the locality. Sa operation naman, mas lalo na sa Teresa nalang kukuha ng mga empleyado kaysa sa ibang karatig lugar para rin makamenos sa pangaraw-araw na gastusin; (2) Lyon sa baha, ang nabanggit ninyon pagbaha dahil sa bagyo, tatlong hagupit ng bagyo, kasama ang Milenyo. Hindi nangyayari araw-araw. Ang pagbaha dahil sa Kaliwa Project ay hindi mangyayari. Ang pag-baha ay dahil sa intensity o tindi ng pag-ulan, gaya ng Ondoy na ibinuhos ang ulan ng tatlong buwan sa	(1) It was mentioned earlier that the people in Teresa would have income-generating activities in a span of the 3-year construction of the dam. How about the following years after the construction? Don't you have a plan for the Teresa constituents? (2) In 2004, 3 municipalities in Quezon experienced flashfloods, which caused the death of thousands of people. In 2009, Teresa had experienced the same. What is our assurance that once the Water Treatment Facility was put up, water will not be released here? We only have narrow river and our place gets flooded easily? (3) Teresa is a very	Engr. N.M. Ortigas: (1) Answer to your first question would be employment. Based on our estimates, during construction, the dam would be needing 1,700 skilled and unskilled workers. During the operations, all the more that the employees would be coming from Teresa, instead of the nearby towns to have lesser daily expenses; (2) Regarding flooding, it was not due to anydam, but was caused by the intensity of rain caused by three (3) consecutive typhoons, including Milenyo. This does not happen everyday, that is why it is called a phenomenon. Flooding caused by

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		pinakamaliit na bayan kung saan 2 Ha ng teresa, ay dito nyo pa napili? Dumaan na kayo ng Tanay at Baras? Paano nyo napili ang teresa? (4) Anong benepisyo ang makukuha dito?	loob ng tatlong araw. Kaya kung hindi maganda ang pag-sasaaayos ng proyekto, at kung matindi ang pag-ulan, talagang magkakabaha. Ito ay reyalidad na.; (Sagot sa paglilinaw ni Atty. Ang) - Hindi lang flood control, kung hindi flood mitigation ang kailangan para magkaroon ng sistema kung paano mababawasan ang epekto ng pagbaha. At ang proyekto ay tinatawag ding climate-resilient.	small town, with an area of about 2 has. Why have you chosen our town?	the project will never happen. But flooding is a normal type of hazard that can pose danger if the controllers and gatekeepers in Kaliwa Dam were all asleep. We need flood mitigating measures, more than flood control, to ensure minimization of impact from floods. The project's design is also 'climate resilient'.
8	Jaime B. Vista, Councilor of Tanay, Rizal	Ang Tinipak River na isang pook panturismo ay pinangangambahan na lumubog. Base sa inyong disenyo, ang Tinipak River ngaba ay lulubog? Pakilinao din kung ang taas ng tubig sa dam na 160	Engr. N.M. Ortigas: Tungkol sa gagawin ng proyekto, lahat ng sagradong lugar sa Daraitan ay poproteksyonan at kung posible walang gagalawin. May mga lugar sa Tinipak, ang mataas level or elevation, kumpara sa tubig dagat o	Tinipak River is a tourist site. Based on your design, Tinipak River will be submerged, is this true? Please clarify, the water in the dam has a height of 160 m and the highest point in Daraitan is 175 m, are these 'above sea level'? If	Engr. N.M. Ortigas: About the project, all sacred sites in Daraitan will be protected and if possible, it will not be touched. There are places in Tinipak with a very high elevated compared with the sea level. As regards the

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		metro at ang 175 metro na pinakamataasa na lugar sa Daraitan ay 'above sea level'? Dahil kung gayon at ibaba ang pader ng dam, ang tubig ay aapaw sa Daraitan. Nais nating maging matibay ang batayan ara na rin sa aming kababayan. Point of clarification, ang naipresent po ninyo ay 160 m., at ang 'above sea level' na 175m sa Daraitan na naka-slant. Kapag po tumaas ang tubig, magbounce ang tubig, babalik sa Daraitn. Kung mataas ang tubig, tatawid sa Real (magoverflow). Kapag ibinaba ang pader, mangangamba ang Daraitan. Kapag	above sea level. Doon po sa Sacred Sites, totoo na may lugar na mabababa. Sinukat ng mga tao namin iyan, kasama ang mga inhinyero at may mga mababa pa sa 135 metro. Kung pabayaan na lagyan ng dam, maaaring abutin ng tubig. Ang sabi ng MWSS, gumawa kayo ng engineering intervention para magamit ang bukal. Gagawan po ng paraan na ang mga sacred sites na mahahalaga sa residente ay patuloy na magamit. 160 metro ang taas ng tubig sa dam kung punung-puno ng tubig. Magbubukas ang gate o overflow structure kapag puno ang dam. Ang Daraitan naman, may tulay na inilagay para magamit kung	so, the water from the dam will overflow to Daraitan. We wanted to have a strong basis so that we can explain this to our constituents. If the wall goes down, the water will flow to Daraitan, if it goes up, the water goes back to Real, Quezon. We are worried in Daraitan for possible widening of our river. We are not against the project, we just need to understand it well for our constituents.	sacred sites, it is true that there are low lying sites. When our engineers measured the elevation, there are sites which are lower than 135 m. If the dam would be mismanaged, the water level will reach the sites in Daraitan. But MWSS has ordered to do all engineering interventions so that the spring in the sacred sites could be used. The maximum water level in the dam is 160m, and the dam will open its gate to let the water flow. Even in the absence of the dam, the river gets bigger; thus, the current bridge is now removed with boats ferrying the tourists back and forth. If there is a dam, the water will

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		<p>itinaas, babalik ang Real. Hindi po namin hinahadlangan, gusto namin ng matibay ang batayan sa aming bayan para maipaliwanag namin ito. Kami po ang babalikan ng aming mga kababayan.</p>	<p>sakaling lumaki ang tubig. sa ngayon, tag-ulan, malaki ang tubig sa Daraitan kaya inalis ang tulay. May mga bangkero na naghahatid sa mga turista. Ibig sabihin, kahit wala po ang dam, kapag umulan bumabaha. Magkakaroon na ng lawa. Kung may dam, magbubukas na ang spillway. Hindi po 160m + 30m, ang maximum na taas ng tubig sa dam ay 160m, ang taas ng pader ay 60m. Ang Maynilad, kailangan nila para sa treatment plant area / footprint ay 33 has. ang Manila Water 21 has., 54 has. sa kabuuan. Ang nabanggit na 70 has. ay ang palibot ng lugar o vicinity.</p>		<p>overflow to the spillway. It is not 160m plus 130m. The maximum water level in the dam is 160m and the wall is 60m. Hindi po 160m + 30m, ang maximum na taas ng tubig sa dam ay 160m, ang taas ng pader ay 60m. As regards the area of the Water Treatment Plant, Maynilad requires 33 has., and Manila Water requires 21 has. for a total of 54 has. The 70 has that was mentioned refers to the whole of vicinity for the plant.</p>

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9	Jaime B. Vista, Councilor of Tanay, Rizal	Iyong Tinipak, ano ang assurance na hindi ito aabutin? May nag-present lang sa Tanay, ay tungkol sa Low Dam. Itong Kaliwa Dam ay High Dam, bakit po nagkaroon ng pagbabago?	Engr. L.C. Cleofas: Ang ginagawa ng MWSS ay pangmatagalan para makasagot sa demand ng kakulangan ng tubig natin. Iyan po ay nababatay din sa irigasyon. Ang ginagawa po natin ay Sustainable Water Supply. Kapag ginawa natin ang 7m na sinasabi, kapag walang tubig, wala ring tubig iyon. Kapag maraming tubig, mag overflow din iyon. Nagbigay ang Congress ng Resolution para makabalangkas tayo ng Master Plan para makatugon sa kakulangan ng tubig. Inuutusan tayo ng Kongreso ngayon para magkaroon tayo ng pangmatagalang pinagkukunan ng tubig sa loob ng 50 taon. Kaya	What was presented to us in Tinipak was a Low Dam proposal. But now you are presenting a High Dam. Why did it change all of a sudden?	Engr. L.C. Cleofas: MWSS aims to have a sustainable solution for the water shortage. If we push through with the 7m dam, it will be useless as it will be easily filled with water when there is oversupply of water. However the low dam will not be able to store enough water when there is none. The Congress issued a resolution to mandate MWSS in developing the Master Plan for a sustainable water supply in a span of 50 years. Kaliwa Dam's design can withstand a 7.2 magnitude earthquake. The project has also undergone a publicbidding project based on R.A. 9184.

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			<p>gumagawa tayo ng istruktura na magtatagal kahit lampas ng 50 taon. Kakayanin ng Kaliwa Dam ang 7.2 na lakas ng lindol, gaya ng Angat Dam. Isa pa po, ang Kaliwa Dam ay dumaan sa bidding, in accordance with R.A. 9184.</p>		
10	Atty. J.E. Ang	(Paglilinaw) Assurance ng Tinipak Site?	<p>Engr. C.L Cleofas: May consultants tayo dito. Lahat ay isasangguni naman sa LGU before approving the detailed design.</p>	(Clarification) What is the assurance for Tinipak Site?	<p>Cleofas: We have consultants on this. We will approve based on the detailed design.</p>

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11	Adorable A. Sunga of Tanay LGU	Ayon sa Google Earth, ang taas ng tubig sa Tinipak ay 133 meters. Ang taas ng dam ay 60m. Kung i-add ito, magiging 193m $160m + 33m = 193m$. Hindi ba masyadong mataas ito?	Engr. N.M. Ortigas: Ang nakikita sa Google Earth ay hanggang sa ibabaw lang ng tubig dahil hindi nakakapenetrata ang sensing camera nila sa mas detalye ng ilog. May paghuhukay pa na gagawin sa ilalim ng 60m, kaya ang pinakamalalim ay 160m. Ang mga inhinyero natin ang mismong nagsukat sa Tinipak kaya mas tukoy nila ang detalye ng lalim dito gamit ang GPS (Global Position System). Ang pinakamalalim na bahagi ng Dam ay may lalim na 160m, kaya kung mapuno ng tubig ang dam, aautin ang marka na 160m. Kaya hindi talaga lulubog ang Daraitan. Kung wala namang gagalawin sa	According to Google Earth the water level in Daraitan is 30 m. The water level in the dam is 160m. So if we add 160m and 30m, that is 190m and is way above the elevation of Daraitan. Are we still safe in Daraitan?	Engr. N.M. Ortigas: What we see in Google Earth is only up to the edge of the water due to the inability of its sensing camera to penetrate into the river and really determine its details. We still need to dig beyond 60m until we reach a depth of 160m. Our engineers have personally measured the area using GPS. The deepest portion of the dam measures 160m, that is why if it would be filled with water, it will reach the mark at 160m. This assures us that Daraitan is safe. If we would not change or touch anything in Daraitan, the poor sanitation and sewerage practices pose great risks in the water

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			Daraitan, kapag natapos na ang dam, ang nakikitang problema ay sanitasyon ng mga kabahayang nakapalibot sa ilog. Mayroon ding plano nag magpapagawa ng tulay sa Daraitan. Hindi lang tulay, kung hindi may sanitasyon din.		quality of the river. There is also a commitment that a bridge will be constructed for the Daraitan community. It is not only building a bridge, but also proper sanitation.
12	Adorable A. Sunga of Tanay LGU	Mayroon po kaming hanging bridge na nawasak sa biglang pagbaha. Kaya may pag-aagam-agam kami sa sitwasyong ito.	Basta tumapon ang tubig, baba na iyan. Ang taas ng Agos River at Kaliwa ay hindi dapat tumaas ng 160m. At alam na ito ng MWSS kahit noong taong 2000 pa dahil matagal na itong pinag-aaralan.	We have a hanging bridge that was destroyed due to flashfloods. This is why we have apprehensions about the dam.	Once the water overflows, the water level will go down. The depth of Agos River and Kanila Dam must not exceed 160m. And MWSS is informed about this based on their studies since 2000.

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13	Cherryl P. Ongjunco, Municipal Assessor of Teresa Rizal	<p>Sa lahat ng bayan ng Rizal, kami sa Teresa ay mayroon lang kabuuang laki na 2,800 ektarya. Isang baryo lang ang laki namin kumpara sa Baras at Tanay. Nagkakaroon ng pagtingin ang mga tao na ang LGU ay may kinalaman dito.</p>	<p>Engr. C.L. Cleofas: Ang una naming programa ay Laiban Dam. Sana nga ang water treatment ay nasa Tanay. Noong nagpasa kami sa NEDA Board, dalawang kombinasyon ito. Sa Laiban Dam, siyam na lugar sa Tanay ang malulubog. Kaya ang pinayagan ng NEDA ay ang Kaliwa Dam. Bakit sa Teresa ang treatment plant? Dahil ito ang pinaka-mataas ang lokasyon sa nasuring lugar. Kailangan pagisipan mabuti ang istruktura kung saan mapapaganda ang daloy ng tubig. Kaya ang ginawa ay binalikan namin ang Teresa.</p>	<p>Of all the municipalities in Rizal, why did you choose Teresa which only has a total land area of 2,800 has.? We are just one small town compared with Baras and Tanay. Some of our constituents viewed that the Teresa LGU has something to do with this (project).</p>	<p>Engr. C.L. Cleofas: The first project was really Laiban DAM, with water treatment to be installed in Tanay. When we submitted a proposal at the NEDA Board, there were two options. In Laiban Dam, nine (9) areas will be submerged. That is why NEDA approved Kaliwa Dam instead. Why did we place the treatment plant in Teresa? Because of the high elevation of Teresa which makes it more prudent and efficient for the water system.</p>

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14	Cris J. Francisco, Councilor of Teresa, Rizal	Iyong benepisyong pantubig ng Teresa. Ang tubig ay kailangan ng tao, partikular dito medyo gipit at may kakulangan. Anong assurance namin na mabigyan ng 24 hours na tubig sa bayan ng Teresa.	Cleofas: Iyan po ang pinag-uusapan namin ni Mayor para magkaroon kami ng direktang koneksyon. Hindi po ganoon kadali. Mayroon pong Teresa Water District. Katulad ng pinag-usapan namin na ito pong buong probinsya ng Rizal ay nasasakupan ng MWSS area. 1997, inimbita ang private sector para sa pag-expand ng proyekto ay mapadali. Ang pinapangako sa atin ng contractor within 3 years, hopefully nandiyan ang treatment plant, mabibiyaan kayo ng tubig. Short term plan ay ilalapit namin sa Task Force para tubig. Sa ngayon, nanggagaling pa sa Angat Dam ang ating tubig. Makakaasa kayo na ang unang mabibiyayaan sa	Regarding the benefits in irrigation, we experience water shortage in Teresa. What is our assurance that we will have a 24-hour water supply in Teresa?	Engr. C.L. Cleofas: That was the first topic that we discussed with Mayor Palino, to have a direct connection for Teresa. But it will not be that easy since Teresa has its local district. Like in our arrangements with the rest of Rizal under MWSS. In 1997, we invited the private sector to expand our projects and make it for efficient for the public. The contractor promised that within 3 years, the treatment plant will be operating already and equipped to distribute water to you. The short term plan would be is to coordinate this with our Task Force for assistance in ensuring that you

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			treatment plant ay ang Rizal.		will enjoy sufficient water supply, unlike now, the water from our faucet comes from Angat. We assure you that Rizal will be the first to benefit from the treatment plant.
15	Jaime B. Vista, Councilor of Tanay, Rizal	Ano po ang programang aasahan ng ating mamamayan, kung sila po ay nakumbinsi na, lahat ito ay mataas na presyo ng tubig. O libre po ba ang tubig? Mayroon bang magiging kasunduan sa bawat bayan na daraanan nito?	Cleofas: Mayroong apat (4) na water district sa Rizal. Ang ginawa po namin sa Bulacan nakipag-usap kami sa mga water districts at naibaba ang sa presyo. P8.50 per cubic meter. Kapag nagawa ang Kaliwa Dam, inaasahan namin na P0.32 / cubic meter. Sa Aquino Administration, pinalawak ang Public Private Partnership, kung kaya marami ang gastos ang panghiram natin ng pondo. Syempre, mahalaga ang kita ng puhunan ng bawat	What can the people expect from the project in case they agreed, with respect to water pricing, or are we getting free water? Will there be a sort of a written agreement with every town that will be affected by the project?	Engr. C.L. Cleofas: We have four (4) water districts in Rizal. What we did in Bulacan is we coordinated with the local water districts and the cost went down to P8.50 per cubic meter. Once we are done with Kaliwa Dam, it is expected that we can bring down the cost at P0.32 cubic per meter. During the Aquino Administration, we expanded the Public Private Partnership (PPP) where we spent so much on the funds invested by the private

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			kumpanya. Sa Duterte Administration, ang gobyerno nalang ang mangungutang ang mamumuhunan at mailatag ang pagbabayad hanggang taong 2037. -gobyero nalang ang mangutang. Inilalatag na hanggang 2037 para hindi maramdaman ang taas ng taripa.		sector. Under the Duterte Administration, the government invested and borrowed the necessary funds. The payment scheme will be until 2037 for the gradual increase in tariffs.
16	Marnelle D. Maala-Reyes, General Manager of Teresa Water District	Kung priority po ang mga taga Rizal, bakit hindi po gawing government to government nalang at wala ng private na kasama. Namamahalan po ang mga taga Teresa dahil may Bulk Water sa Manila Water. Bakit hindi nalang po i-interconnect natin sa existing nalang para mapababa naman	Engr. C.L. Cleofas: Bukas po kami sa lahat ng aming magagawa para sa Teresa Water District.	If Rizal constituents are our priority, why not consider government to government arrangement, instead of involving the private sector? The cost of water becomes expensive due to the Bulk Water of Manila Water. Why not interconnect the existing to lower down the water price? Why not tap	Engr. C.L. Cleofas: We are very open to whatever help we can do for the Teresa Water District.

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		po ang presyo? Bakit hindi sa Teresa Water District? 4 kaming Water Districts dito at pwede namang magtulungan.		the Teresa Water District? There are four (4) water districts in Teresa which can all work together for this cause.	
17	Fernando Lopez of Teresa Rizal	Mayroon na bang plano sa mga pamilyang maapektuhan ng proyekto?	Engr. C.L. Cleofas: Doon po sa dam site, mayroon na pong napag-usapan. Pero dito sa Teresa, uumpisahan pa lang ng grupo. Magisisimula pa po. Sa ngayon mga lokal na magsasaka pa lang ang nakikita.	Is there already a plan for the families who will be affected by the project?	Engr. C.L. Cleofas: At the dam site, there is already an on-going dialogue. But in Teresa, we will soon begin our coordination with the concerned groups. Currently, we have only identified the local farmers.
18	Hon. Raul S. Palino, Mayor of Teresa, Rizal	Nagbigay na ang Landbank ng halaga ng lupang tatamaan ng project, baka pwedeng magkaroon ng konsiderasyon para sa MWSS at mga owners ng lupa para mag-usap ng 'win-win solution' dahil malaki rin ang binabayaranang tax.	Engr. C.L. Cleofas: Manila Water at Maynilad po ang inaasahan namin para sila ang makipag-usap sa mga landowners. Sa gobyerno ay mako-COA	Landbank already released its appraisal of the properties which will be affected by the project. Can we request MWSS to consider a dialogue with the property owners and agree on a win-win solution because they also spent so much on taxes. It	Engr. C.L. Cleofas: We expect Manila Water and Maynilad to handle the coordination with the landowners. MWSS adheres to COA rules and regulations in this regard.

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		Unfair ito sa mga taga-Teresa.		would be unfair to these owners.	
19	Kap. Jhanda S.J. Sto. Domingo of Brgy. Dalig	Anong seguridad at benepisyo ang mabibigay sa mga tao ng proyekto, bago at pagkatapos ng proyekto?	Engr. N.M. Ortigas: Gagawa ng IP and Community Development plans ang MWSS. Sakop nito ang itaas at ibabang bahagi ng dam. Sa usapin ng seguridad sa pagtatrabaho, kasama ito. May gagawing pag-aayos ng lupa para maging ligtas; Engr. C.L. Cleofas: Tungkol sa pangkalahatang seguridad, nakikipag-ugnayan na kami sa mga awtoridad. At sa benepisyo, hindi lang para sa mga katutubo o IP, ngunit sa kabuuan ng komunidad. Bibigyan ng namin ang Teresa	What kind of benefits and security can the people get, before and after the projects?	Engr. N.M. Ortigas: Gagawa ng Indigenous People and Community Development Plans ang MWSS. These covers both the upstream and downstream. In terms of occupational safety, this is also part of the plan. There will also be landscaping to ensure safety during the construction phase; Engr. C.L. Cleofas: Regarding the overall security, we coordinated with the authorities. On the aspect of benefits, both the IPs and the Community are

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			LGU, para na rin maaprubahan ng ating Konseho at ni Mayor.		considered in our development plans. We will provide the Teresa LGU the copies of these plans for the approval of our Council and Mayor Palino.
20	Jose Manlangit of Teresa, Rizal	Kapag dumating na sa kritikal na level ang dam, magpapakawala na ng tubig. Ano barangay ang babahain? At pangalawa, iyon pong irigasyon? Hanggang saan ba ito makakarating para mapakinabangan ng mga magsasaka?	Engr. N.M. Ortigas: Ang dam natin ay sa Infanta. Kapag bumaha po, ang baha ay hindi pupunta sa mga tubong daluyan ng tubig. Wala pong problema sa Teresa. Kapag kritikal, pupunta na sa spillway. Doon na diretso sa Agos River at isasara ang Intake. Ang mga magsasaka na gumagamit ng tubig mula sa Kaliwa	When the dam reaches its critical level, it will release water. Which barangays will get flooded? Secondly, what are the covered areas of the irrigation system so that our farmers can benefit from it?	Engr. N.M. Ortigas: The dam is in Infanta. If there is flood, this does not go into the tunnel where water flows from Kaliwa Dam. Teresa will not encounter any problems regarding this situation because the excess water from the dam will be released to its spillway, then to Agos River and then to the Pacific Ocean.

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			ay sa bandang Real, Quezon. Mayroon na pong existing at on-going na irrigation system. Ang kukunin lang po sa Kaliwa ay wala pa pong 30% ng tubig sa Ilog Kaliwa para sa Metro Manila.		The Intake will be closed when this happens. Farmers who are based in Real, Quezon, may utilize the water from Kaliwa. The dam will only utilize 30% of the water from the river for Metro Manila's consumption.
21	Eddie C. Santos of Teresa LGU	Paglilinaw lang na ang maximum level ng dam ay 160m. Sa Google Earth daw po ang Daraitan ay may 130 m na elevation lang. Ibig sabihin mas malaki ng 30m ang dam kaysa sa Daraitan? Nabanggit ninyo na ang Teresa ay may mataas na elevation, anong elevation ng Teresa kumpara sa Kaliwa Dam.	Engr. Ortigas: Ang ipinapakita ng Google Earth ay taas ng tubig mula sa larawan ng satellite nito kaya 130m. Pero hanggang sa ibabaw lang ito ng tubig. Ang 162.5m ay sinukat ito at may global positioning na ginamit. Mas malalim pa ho ang river bend. 160m ang naging bench mark. Hindi namin inaalang pangamba ang pagbaha, sigurado	Clarification on the maximum level of the dam at 160m. Based on Google Earth, Daraitan has only an elevation of 130m. Does this mean that the dam is 30m higher than Daraitan? It was mentioned that Teresa has a high elevation that's why it was selected. What is the elevation of Teresa compared with Kaliwa Dam?	Engr. Ortigas: The measurement of Google Earth of 130m is only up to the surface water. The 162.5m measurement of our engineers is based on the Global Positioning System (GPS). The benchmark is 160m. We do not discount the risks of having flood in the area, but the water from the dam will not reach the households. As

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			kami na hindi aabutin ang mga kabahayan kapag tumaas ang tubig. Pero between the dam and Teresa, 27 divided by 1000, iyon ang pinaka elevation ng Teresa. Kailangan ang level sa Teresa para madala sa Teresa treatment plant at para magamit sa ibang lugar at hindi na kailanganin pa na bombahin ang tubig para makarating sa ibang lugar.		for the elevation in Teresa, it is 27 divided by 1000 (.027) - that's the elevation. We need the level in Teresa to efficiently deliver the water from the dam to the treatment plant and then to other areas.
22	Leila C. Reynes of Teresa LGU	Iyong po bang treatment plant, may reservoir po ba? Paano madistribute sa household? Gagawa p po ba ng tunnel?	Engr. N.M. Ortigas: May tinatawag na clear water reservoir, kasi 24 hours ang treatment diyan. Kapag na-treat na iyan, ilalagay sa reservoir, tsaka pa dadalhin sa service water ng Maynilad, Manila Water or water districts. Mayroon pang tubo para madala ang tubig na ito.	Does the treatment plant has a reservoir? Does it need a tunnel to distribute (the water) to the households?	Engr. N.M. Ortigas: There will be clear water reservoir which will undergo a 24-hour treatment. After the treatment process, the water will be released to Maynilad, Manila Water or the existing water districts. There will be laying of pipes for this process.

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23	Crescenciano B. Minas Jr., MWSS	Sino ang monitoring team para sa proyekto at kailan ma-isyu ang ECC?	Atty. J.E. Ang: Hindi pa naman po matatapos ngayon ang proseso. May timetable ang project na ito. Kailangan pang tingnan ang ECC at makita din kung makacomply ang MWSS sa mga kondisyon na nakasaad sa ECC.	Who are the monitoring team of the project and when will the ECC be released?	Atty. J.E. Ang: The process will not end here. The project has its timetable also. The monitoring team will be determined in the ECC. We still have to see if MWSS can comply with certain conditions.

5 FORUM OUTPUTS

- Posting of all information regarding Kaliwa Dam Project at the MWSS Website. This includes but are not limited to: (a) Project Description; (b) EIA Study Results; (c) Commitments to the Stakeholders with regards to compensation, resettlement / relocation sites; (d) Area-based Risks and Benefits of the Project; among others.
- Continuous negotiation with the property owners and appraisal agents to determine the acceptable cost or value of the property to be acquired to give way to the construction and operations of the dam.
- Presentation of information on the actual sites that will be affected by the tunnel boring activities and by the construction of the dam, as well as the construction of the treatment plant.

6 ADJOURNMENT

Engr. L. Ramboyong adjourned the public hearing at 11:45 a.m. He encouraged everyone to provide additional inputs and to raise other concerns that were not tackled at the meeting through the EMB website and contact numbers:

Website: eia@emb.gov.ph

Telephone numbers: (02) 920-2240, (02) 920-2241

On a final note, Engr. L. Ramboyong reminded the participants that the presented project is still subject for review before the release of its Environmental Compliance Certificate.

7 ANNEXES

ANNEX 1: ATTENDANCE SHEET OF STAKEHOLDERS AND GENERAL PUBLIC

ANNEX 2: DISSEMINATION OF INFORMATION

Annex 2.1: Affidavit of Publication

Annex 2.2: Publication in Newspaper of General Circulation

Annex 2.3: Notice of Public Hearing

Annex 2.4: Posting in Public Areas

Annex 2.5: Invitation Letters

ANNEX 3: PUBLIC HEARING PROCEEDINGS

Annex 3.1: Matrix of Issues Raised and the Proponent's/DENR Response

Annex 3.2: Summary of Issues beyond the mandate of the EMB

Annex 3.3: Transcription of Proceedings

ANNEX 4: VIDEO, PHOTO AND AUDIO DOCUMENTATION

Annex 4.1: Video Footages

Annex 4.2: Photographs

Annex 4.3: Audio Recordings

ANNEX 5: POWERPOINT PRESENTATION OF THE PROJECT AND EIA STUDY