

Appendix-9
Minutes of Stakeholder Meetings

**MINUTES OF THE MEETING
FIRST STAKEHOLDERS' CONSULTATION
THE STUDY ON COMPREHENSIVE FLOOD MITIGATION
FOR CAVITE LOWLAND AREA
Sangguniang Panlalawigan Session Hall
Trece, Martires City, Cavite
August 10, 2007**

PROCEEDINGS:

The consultation formally started at around 9:30 in the morning with an Invocation led by Ms. Anabelle L. Cayabyab, emcee and Sr. Environmental Mgt. Specialist of PG-ENRO. This was followed shortly by the singing of the Philippine National Anthem.

Ms. Cayabyab set the tone for the meeting by acknowledging the participants consisting of representatives from various national, provincial and local government institutions; provincial and local officials; people's organizations; non-government organizations; fisher folk groups; religious groups; communities (selected formal and informal settlers from the municipalities covered by the initial social survey); academe; WCI representatives and JICA representatives and study team.

Participants were formally welcomed by the Hon. Board Member Eileen Beratio in behalf of Vice Governor Dencito P. Campaña.

The Hon. Congressman of the 1st District of Cavite, Joseph Emilio "Jun" Aguinaldo Abaya gave an inspirational message in behalf of Governor Ayong S. Maliksi. Wherein, he acknowledge Mr. Buboy Doma, consultant for Social Survey, WCI, for giving him some inputs regarding status quo of the project. Likewise, he expresses his gratitude to the Provincial Government of Cavite for initiating the study and also to JICA for the assistance and effort they provided.

According to Cong. Abaya, he is very much thankful to the team for doing the right process specifically conducting a stakeholders' consultation. He also advised the 2nd and 3rd district to take care of their environment because whatever activities they conducted, his 1st district suffers. Likewise, he also encourage the participants specially the communities to participate and ask questions during the open forum because their inputs are important in doing the study where the Japanese team will truly appreciate their comments and suggestions. He also suggested that concrete programs that would contribute to current flood mitigation efforts in various municipalities must be started or initiated this early. The Hon. Congressman Abaya sent the strong message that acting on the flooding problem in the province must be done now.

Presentation of Mr. Kazuto SUZUKI: The Study on Comprehensive Flood Mitigation for Cavite Lowland Area in the Republic of the Philippines

Mr. Kazuto SUZUKI of JICA Team presented the Study and its progress based on the survey results in the First Field Survey. Before Mr. SUZUKI, started his presentation he expressed his thanked to various government and non-government organizations that has extended support to the Study since the very beginning and also to the participants.

Mr. SUZUKI mentioned that the study composed of 3 main objectives such as (1) formulation of flood mitigation master plan for three basins (the San Juan, the Imus and the Cañas Rivers); (2) feasibility study for the priority projects selected in the master plan; and (3) development of flood management capacity for counterpart organizations.

In terms of the topography of the project site, the study team identified the following (a) Extremely Low Land Area EL 0-2m, almost flat; (b) Low Land Area EL 2-30m with a slope of $<1/200$; (c) central Hilly Area EL 20-400m with a slope ranging from $1/200$ to $1/50$; and (d) Upland Area EL 400-650m with a slope over $1/50$.

According to Mr. SUZUKI, the study team also gathered some information regarding the existing land-use and development in the project site such as existing fishpond, previous fish pond abandoned, previous fish pond reclaimed, grassland (vacant land), development of housing estate, and existing housing estate. Aside from this, he also reiterated the status or situation of the river channels, some major cause of flooding in the project site and the basic concept in formulating the master Plan including the proposed structural and non-structural measures.

With regards to the mitigation that needs to be undertaken, the study team proposed the following: for non-structural measures (1) measures for river channel that includes community-based flood mitigation and restraint of illegal land occupation in the river area; (2) measures for basin that includes land use control and control of disorderly land development; and (3) measures for damage mitigation that includes development and dissemination of flood hazard map, establishment of evacuation and flood fighting & preparedness against flood and unification of related agencies for flood mitigation. And for the structural measures the team identified 3 potential mitigation measures against flood and these are (1) full-scale river channel improvement, (2) construction of flood diversion channel, and (3) construction of flood retarding basin.

Presentation of Mr. Crescencio M. Doma Jr.: Social Survey Results in the First Field Survey

Mr. Crescencio M. Doma Jr., presented some highlights of the survey results wherein he stressed out that for social survey, they conducted three strategies to get the consensus, ideas and opinion of the residents in the project site about the on-going study, and these are (1) residents' survey, (2) key informant's interview, and (3) public consultation. There were 180 respondents selected from the group of formal and informal residents.

Likewise, Mr. Doma also took the opportunity to thank the office of Ms Eden Austria, MPDO, PG-ENRO and the local government units for helping facilitate the conduct of the survey in their localities, and the residents who shared their time for the interview.

Presentation of Ms. Annie Sto. Domingo: Draft of the Scoping Results of the Study

The Draft of the Scoping Results was presented by Ms Annie Sto. Domingo, consultant for the Initial Environmental Evaluation (IEE) who also explained the conduct of the IEE in the coming days.

According to Ms. Domingo not only structural measures will be checked by the IEE team but also the ecological and the social aspects of the project site.

Open Forum

An Open Forum was conducted after the presentations. Some of the important concerns and issues raised during the open forum were the following:

- 1. Question:** Does the team include the on-going national project – the R-1 expressway? Because the said national project will directly hinder the circulation and flow of water and might cause heavy flooding in your project site (*Ms. Corazon del Mundo, LGU Imus*).

Answers: We have on-going data gathering regarding the R-1 expressway together with the DPWH and the Provincial Government of Cavite. All the information and data that we gathered will be studied and analyzed so that if we saw there's an effect, we will include it in our plan. (*Mr. Kazuto SUZUKI, JICA Study Team*)

As what Mr. SUZUKI mentioned, we have already gathered some necessary data for example the copy of the ECC which we got from EMB Central Office. But for the EIA we are still waiting for the response of the said office to furnish us the EIA copy. (*Ms. Anabelle Cayabyab, PG-ENRO*)

- 2. Question:** Because of R1 Expressway project, flooding is actually an everyday scenario in our barangay. My question is how could the DPWH help us regarding the said matter? (*Merlyn G Pangilinan, Secreatry Barangay Aplaya Kawit*)

Answer: We will investigate the said issue. (*Engr. Abelardo Sarne Jr., DPWH*)

- 3. Question:** Flooding is actually a-day-to-day problem in our barangay because of the clogging of our drainage and canals due to garbage? I would like to address my question to the DPWH, how can you help us regarding this problem? (*Brgy. Captain Severino Nario, Barangay Niog 3, Bacoor*)

Answer: The only concern of the DPWH are the national roads, and the once you are mentioning is not part of the national road.

- 4. Question:** We all know that in spite of the project implementation there's a need to remove or relocate the identified households from the dangerous zones. What is the perception or opinion of the LGU's especially the group from formal and informal settlers? (*Mr. Crescencio Doma. WCI*)

Answers: By September 2007, there would be a demolition of illegal squatters which will be based on the LINA Law. But the provincial government of Cavite has set also criteria's regarding the demolition. There is already an ordinance passed by the Sangguniang Board members regarding this matter, wherein it was stated in this ordinance that barangay captains are not excluded in the penalties and punishments stated in the ordinance. Also, I would like to give assurance to our Japanese friends here, that this is a serious campaign of the provincial government to really be effective and fruitful. (*Board Member Luis T. Pagtakhan*)

By this time we have already gathered residents leaving in the danger zone and those who will fall under the criteria. This is actually a province wide implementation. (*Engr. Rolinio P. Pozas, PG-ENRO*)

- 5. Question:** Board Member Pagtakhan mentioned that there would be a demolition by September, my question is, how equip and ready the provincial government to relocate and give the necessary benefits to the affected families? Because there are a lot of squatters in the project site especially in Kawit and we are worried about it. (*MSWD, Kawit*)

Answer: Only squatters who passed the criteria will be granted by benefits. Those squatters that are not entitled for relocation constructed their houses after 1992 are not entitled for the benefits. (*Engr. Rolinio P. Pozas, PG-ENRO*)

- 6. Question:** Does the area for relocation already prepared? (*Mr. Crescensio Doma Jr., WCI*)

Answer: Yes, we have already prepared the relocation area in coordination with the National Housing Authority or NHA. (*Engr. Rolinio P. Pozas, PG-ENRO*)

- 7. Question:** One of the major issues why there is a heavy flooding is because of illegal dumping of garbage elsewhere and the poor solid waste management of the LGU's. For example our dumpsite is situated in the coastal area and when heavy rain comes garbage are actually floating in the oceans and canals. What is the action or solution of the provincial government regarding this matter? (*Mr. Joey Emelo, Muncipal Disaster Rosario*)

Answer: The ECC of the proposed Sanitary Landfill in Ternate, Cavite will be released this year. And as soon as we have the copy of the ECC we will start the ground activity and by next year it would be a full operation. And all open dumpsites in the province will be closed. (*Engr. Rolinio P. Pozas, PG-ENRO*)

- 8. Question:** According to Engr. Pozas, the ECC of the Sanitary Landfill in actually

pending at the NWRB Office? And as far as I know there should be a span of time in securing the ECC, so what is the action of the NWRB? (*Ms. Minnie Dacanay, JICA*)

Answer: We are still waiting for the side comment of the NWRB, to complete the approval of the ECC.

Some the queries and inputs were also raised by the participants such as:

- 1) Ms Encarnacion, MENRO of Imus made a clarification on the part of the survey result which she believes might have been the reason why Imus was not included in the municipalities covered by the study. She mentioned that what their municipal engineer wanted to tell in his interview was that the situation in Imus was not as worse the other flood in their neighboring towns during typhoon Milenyo and he did not mean “flooding is not a major problem in Imus.” She also requested that Imus be included in the Study. Mr. Doma acknowledged the correction raised by Ms Encarnacion and promised that a note on that correction will be made in the report;
- 2) A participant also inquired why upland municipalities are not included in the Study when major rivers are found in these municipalities. Mr. Suzuki responded that upland municipalities and rivers are not neglected at all since there are also non-structural mitigation measures that are to be implemented in some upland communities;
- 3) Questions pertaining to plans about the Noveleta bridge were raised and the Provincial Engineer responded by telling the body that meetings have been conducted in relation to the said concern and that final recommendations will be arrived at in due time. He also mentioned that problems with regard to drainage systems are also being addressed by their office; and
- 4) Sagip Ilog Representative Ms Sally Dulog expressed her gratitude in behalf of the organization to JICA and the provincial government for giving them the opportunity to participate in the meeting.

The synthesis for the Open Forum was made by Mr. Doma. Wherein some of the issues or key points that he highlighted are the following

- Comment and opinion of every one about flooding situation in the Cavite area specially in the Lowland area.;
- Leaders and residents gave a good comment and opinion about the survey and expressed their support to the survey that the main reason of flooding in Cavite is to due to illegal dumping of solid waste ;
- Review again the structures in some area that might be the reason of flooding, the

authorities/public work, give assurance that they will study again some infrastructures if this really cause flood in Cavite area;

- Important to emphasize the question why upland area are not included in the study;
- The issue of solid waste management of the LGU's and the action of the provincial government is also tackled in the forum;
- Board member Pagtakhan mentioned, that the provincial government has already concrete project. In leadership of Gov. Ayong Maliksi to implement the ordinance regarding the squatters and squatting syndicate;
- It is important that every agency and other sector of the society, will continuously provide good communication and exchange of thoughts to learn the reason of flooding in the area of Cavite; and
- This program aims to save the residence from calamities specially in flooding and relocate them in safe place and give way to comprehensive flood mitigation project, for low land area in Cavite.

Closing Remarks was given by Mr. Mikio Ishiwatari of the JICA head Office. He expressed his gratitude to the provincial government of Cavite for the support if has extended to the Study and likewise encouraged the people to support the project.

Prepared by:

Annabelle L. Cayabyab
Sr. Environmental Mgt. Specialist
PG-ENRO

ATTENDEES:***Provincial Government of Cavite***

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|--------------------------------|---|---|
| 1. BM Luis T. Pagtakhan | - | Board Member (Chair Committee on Environment) |
| 2. Hon. Joseph Emilio A. Abaya | - | Congressman 1 st District |
| 3. BM Eileen Beratio-Cocos | - | Board Member |
| 4. Mr. Aristides C. Velasco | - | Povincial Administrator |
| 5. Engr. Mario C. Silan | - | Provincial Engineer |
| 6. Ms. Eden V. Austria | - | PPDC |
| 7. Engr. Rolinio P. Pozas | - | Prov'l Env't. & Nat'l. Resources Officer |
| 8. Engr. Rodelio D. Cruz | - | Project Development Officer IV |
| 9. Ms. Anabelle L. Cayabyab | - | Sr. Environmental Mgt. Specialist |
| 10. Ms. Gloria L. Sarte | - | Planning Officer IV, PPDO |
| 11. Engr. Lorna R. Leyran | - | Project Development Officer III, PPDO |
| 12. Ms. Teodora F. Salgado | - | Project Development Officer II, PPDO |
| 13. Ms. Cynthia R. Mabilangan | - | Project Development Officer I, PPDO |
| 14. Mr. Vicente DR. Ilagan | - | Project development Officer I, PPDO |
| 15. Mr. Rodolfo C. Buhay | - | PSWDO |
| 16. Mr. Jose R. de Castro | - | Secreatry Sangguniang Panlalawigan |
| 17. Mr. Vivencio G. Montaro | - | LSA III, Sangguniang Panlalawigan |
| 18. Ms. Beverly O. Alvaran | - | Staff, Sangguniang Panlalawigan |
| 19. Mr. Arthur Tibayan | - | Staff, Sangguniang Panlalawigan |
| 20. Ms. Anabelle P. Wong | - | LSA III, Sangguniang Panlalawigan |

Local Government Units

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|-------------------------------|---|----------------------------------|
| 1. Hon. Emilio Aguinaldo IV | - | Vice Mayor Kawit |
| 2. Engr. Redentor Dones | - | MPDO, Kawit |
| 3. Engr. Bartolome de la cruz | - | Municipal Engineer, Kawit |
| 4. Ms. Yolanda V. Labo | - | MSWDO |
| 5. Engr. Ariel Olaes | - | Municipal Engineer, Noveleta |
| 6. Mr. Efren Criman | - | MPDO, Noveleta |
| 7. Ms. Jinky Solicon | - | MSWDO |
| 8. Mr. Alberto Ararao | - | MPDO, Trece Martires City |
| 9. Engr. Moises Menguito | - | MPDO, Dasmariñas |
| 10. Mr. Ferdinand C. Saria | - | Planning Officer, Gen. Trias |
| 11. Engr. Rodel Pelaez | - | MPDO, Imus |
| 12. Ms. Corazon del Mundo | - | MENRO, Imus |
| 13. Ms. Jennifer Mones | - | MPDO, Silang |
| 14. Ms. Merlina B. Cabrera | - | MENRO, Silang |
| 15. Ms. Gina Gonzales | - | MPDC Staff Silang |
| 16. Engr. Edwin Lupisan | - | Municipal Engineer, Rosario |
| 17. Ms. Joanne Gonzales | - | Municipal Administrator, Rosario |
| 18. Mr. Joey Emelo | - | Municipal Disaster |

DPWH

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|--------------------------------|---|-----------------------|
| 1. Engr. Aberlardo Sarne | - | OIC District Engineer |
| 2. Mr. Nolasco Madlangbayan | - | Engineer II |
| 3. Mr. Romeo Abelardo | - | Engineer II |
| 4. Ms. Dolores M. Hipolito | - | Project Manager |
| 5. Engr. Harold Uyap | - | Engineer III |
| 6. Engr. Elmo F. Atillano | - | Engineer III |
| 7. Engr. Willy Galang | - | Engineer III |
| 8. Ms. Leonila R. Mercado | - | Engineer IV |
| 9. Ms. Eveth Renan C. Florendo | - | Engineer II |
| 10. Ms. Belinda Fagardo | - | Chief on Environment |

NWRB

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|----------------------------|---|-------------------|
| 1. Ms. Joshepine Billiones | - | Engineer II, NWRB |
| 2. Mr. Francis Hilarie | - | NWRB |

NIA and Other Agency

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|---------------------------|---|---|
| 1. Dir Vicente F. Tomasar | - | Office Of Civil Deffence –Regional Director |
| 2. Mr. Ador J. Umipig | - | OIC-Project Evaluation, DENR |
| 3. Mr. Romeo R. Anunuevo | - | Acctg. Regional manager, NIA Pila Laguna |
| 4. Mr. Felix c. Krewin | - | Engineer, NIA Cavite |

JICA

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|--------------------------|---|--|
| 1. Ms. Minnie M. Dacanay | - | In house consultant |
| 2. Yuko KUNO | - | Group III Water Resource and Disaster Mgt. |
| 3. Mikio ISHAWATARI | - | Senior Advisor |
| 4. Minoru KANOTO | - | Advisor |
| 5. Yoshio TOKONAGA | - | Chief Advisor |

JICA Study Team

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|----------------------|---|--|
| 1. Kazuhiro KUMASAKA | - | Hydrologist |
| 2. Makoto MITSUKURA | - | In-land water |
| 3. Naoto MURATA | - | Environmental and Social Consideration |
| 4. Kazuto SUZUKI | - | Co- Team Leader |

Local Consultant Conducting IEE

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|-------------------------------|---|-----------------------|
| 1. Ms. Andrelita Sto. Domingo | - | Env't Specialist, WCI |
| 2. Mr. Charlou A. Gonzales | - | Env't Specialist, WCI |
| 3. Ms. Kristine Anne Martirez | - | Environmental, WCI |
| 4. Mr. Crescencio Doma Jr., | - | WCI |

Academe

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|----------------------|---|----------------------------------|
| 1. Bro. Terry Abutin | - | Sec. Cavite Bible Baptist Church |
|----------------------|---|----------------------------------|

Religious

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|----------------------------------|---|--|
| 1. Rev. Fr. Cornelio Matanguihan | - | Chair. Cavite Green Consortium Diocese of Imus |
| 2. Rev. Fr. Arnold Arellano | - | Cavite Bible Baptist Church, Cavite City |

NGO's – Non-Government Organization

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|----------------------------|---|------------------|
| 3. Dr. Rosalina C. Dulog | - | Chair Sagip Ilog |
| 4. Mr. Chito Legaspi | - | Sagip Ilog |
| 5. Ms. Elisha Kamil Abutar | - | Sec. Sagip Ilog |

PO's – People's Organization

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|------------------------------|---|---------------------------|
| 1. Mr. Rogelio Montiel | - | Chair. IFARMC (province) |
| 2. Mr. Rodel Marasigan | - | Chair. MFARMC, Rosario |
| 3. Mr. Rolando Monzon | - | Chair. MFARMC, Kawit |
| 4. Mr. Rodolfo Sarten | - | Chair. MFARMC, Bacoor |
| 5. Ms. Estrilita G. Espineli | - | ICM Coordinator, Noveleta |

Communities

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|------------------------------|---|---|
| 1. Mr. Joel Pobre | - | Barangay Captain II, Bacoor |
| 2. Mr. Severino Nario | - | Barangay Captain Niog III, Bacoor |
| 3. Ms. Norma L. Calubcob | - | Donia Alicia Subd., Ligas I |
| 4. Ms. Marissa Bucao | - | Donia Alicia Subd., Ligas I |
| 5. Mr. Angelito Trias | - | Barangay Captain , Kawit |
| 6. Mr. Felipe Barzaga | - | Barangay Captain, Wakas II, Kawit |
| 7. Mr. Erwilinio Alix | - | Barangay Captain, San Antonio I Noveleta |
| 8. Ms. Edna Almazar | - | San Antonio I Noveleta |
| 9. Mr. Ernesto T. Chua | - | San Antonio I Noveleta |
| 10. Mr. Geronimo Mendoza | - | Barangay Captain, Bagbag I Rosario |
| 11. Mr. Teodorico Ilano | - | Barangay Captain, Salitran I Dasma |
| 12. Mr. Domingo Barbacua | - | Barangay Captain, Bacao I Gen. Trias |
| 13. Ms. Mila F. Jizon | - | Sitio de Fuego, San Francisco, Gen. Trias |
| 14. Ms. Maricel Dicsson Tud | - | Sunny Brooke, San Francisco, Gen. Trias |
| 15. Ms. Evangelina Serrano | - | Barangay Captain, Biwas Tanza |
| 16. Mr. Orlando S. Gozo | - | Barangay Captain, Julugan III Tanza |
| 17. Mr. Alex Soriano | - | S-2 Blk-23-Lot-32 Sunny Brooke-I |
| 18. Ms. Rosy Samonte | - | S-2 Blk-21-Lot-24 Sunny Brooke-I |
| 19. Mr. Ronnie Javier | - | Economist III, Trece Martires City |
| 20. Ms. Merlyn G. pangilinan | - | Barangay Secretary, Kawit |
| 21. Mr. Alinston Culla | - | Barangay Kagawad, Kawit |
| 22. PO1 Jonelyn Dano | - | DS-RDC, Camp Vicente Lim |

Abbreviations

1. PPDO – Provincial Planning Development Office
2. PPDC – Provincial Planning Development Coordinators
3. PSWDO – Provincial Social Welfare and development Office
4. MPDO – Municipal Planning Development Office
5. MPDC – Municipal Planning Development Coordinators
6. MENRO – Municipal Environmental and Natural Resource Office
7. MSWDO – Municipal Social Welfare and Development Office
8. MFARMC – Municipal Fisheries and Aquatic Resource Management Council
9. IFARMC – Integrated Fisheries and Aquatic Resource Management Council
10. NWRB – National Water Resource Board

MINUTES OF SECOND STAKEHOLDER MEETING (PART 1)

FOR

**THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR
CAVITE LOWLAND AREA**

Venue: Board Room, Bayview Hotel, Roxas Blvd., Manila

Date: October 01, 2007

Attendees: Copy Attached (List of Attendees)

The Technical Working Group Meeting was held from 10:00 a.m. to 12:30 noon on October 01, 2007. The meeting was convened by the Chair, Ms. Dolores M. Hipolito, Project Manager II, Flood Control and Sabo Engineering Center, DPWH at 10:00 a.m. After the introduction of participants, the JICA Study Team headed by Mr. Otogawa presented the Progress Report on the Master Plan Study. The list of participants to the Meeting is shown in the Annex. The principal items discussed and/or concluded in the Meeting are as presented below.

1. Land Subsidence

Engr. Martiniano M. Dela Cruz, Engineer III of BOD, DPWH asked about the location, the rate/level and the causes of land subsidence, which the JICA Study Team pointed out as one of the major issues in formulation of the flood mitigation plan.

In response to the question, Mr. Otogawa replied the following points:

- The land subsidence is most serious in Kawit, where the present ground level is lower than the high tide level.
- The main cause would be attributed to the excessive abstraction of the groundwater.
- The annual rate of the land subsidence is, however, hardly computed due to lack of the basic data.

In connection with the excessive abstraction of the groundwater as pointed above, Ms. Hipolito asked if the JICA Study Team consider about alternative water resources development relating also with flood control, like the construction of dam. Mr. Otogawa replied that it is virtually difficult to include the water resources development plan into the scope of the Study, but the present flood problem related to the low ground level would be incorporated into the design for the flood mitigation structures.

2. Easement or Reoccupation of the River Area

Mr. Eugenio Diaz, Jr. Engineer II RBCO, DENR asked if the JICA Study Team would prepare certain plans for river easement to deter reoccupation of informal settlers in the river area after their leaving from the area.

Mr. Otogawa replied that the Study would hardly include the detailed plan for easements because of uncertainties in the progress of work, but will provide various concepts on eligible measures for easements such as construction of riverside parks similar to the successful precedents in Japan.

3 Program for Relocation of Informal Settlers in the River Area

Ms. Belinda Fajardo, Chief EMS of DPWH, ESSO asked if the LGUs have programs for relocation, because if an ECC will be acquired for the master plan, this should include mitigation plans. Ms. Hipolito further commented that Cavite Province should pursue the relocation and demolition program including the necessary budgetary arrangement and development of the relocation sites.

Ms. Anabelle Cayabyab, Sr. EMS of Provincial Government of Cavite replied that the Provincial Government is implementing demolition and relocation consistent with the provisions of “Lina Law” re: squatters. However, as per guidelines, those who will not fall in the criteria and at the same time established their houses after 1992, will not be given benefits such as housing relocation of the provincial government but instead will be provide with only minimal compensation (e.g. fare going back to their province).

Engr. Elmo F. Atillano, Engineer III, DPD, DPWH also commented that he could recognize the efforts and on-going demolition activities on informal settlers by the Provincial Government of Cavite. He was, however, informed that some people living along the riverbanks and/or waterways secured land titles. In this connection, he asked Ms. Cayabyab about the actions taken by the local government concerned on said issues. In response, Ms. Anabelle admitted that there are really some people, who are able to secure land titles and have occupied along the riverbanks. In order to cope with this issue, she informed that the Provincial Government have involved legal personnel to resolve said issues and concern.

4. Solid Waste Management

Ms. Fajardo commented that the garbage dumping into the river is a very serious problem in maintaining the river channel flow capacity as well as conservation of the river environment, and there should be a long-term program to ensure that garbage will not clog the waterways and cause flooding. She further suggested that the support of the Academe would be eligible as part of the program for cleaning of waterways. Ms. Hipolito also commented that enforcement for the laws relevant to the solid waste management (RA 9003) is weak and the JICA Study Team may consider developing schemes, which could facilitate easy removal of garbage for rivers.

In connection with the above comments and suggestion, Ms. Cayabyab informed the following items:

- Solid waste management is one of the priority programs of the Province and emphasized that the Provincial Governor initiated the program as multi-sectoral activity to address the solid waste problems.
- The Provincial Government has established various relevant programs such as implementation of the sanitary landfill, construction of the open dumpsite, and the Material Recovery Facility (MRF) project in compliance to the RA 9003.
- The Provincial Government now executes the “Oplan Linis Cavite” program, which involves the academe and private sector for river, coastal and waterways cleaning.
- The Province Government in lieu of the demolition program is now implementing to secure 5-7 meters from the riverbanks as the easement area.

- The provincial government as one of the parallel sites of PEMSEA, implemented Integrated Coastal Management (ICM) to address multiple use conflicts in the coastal and non-coastal areas of Cavite.

Mr. Otogawa also informed that the Study Team would formulate policy recommendations on measures to prevent dumping of garbage along waterways, and the system to protect the waterways, the bottleneck area in the waterway in particular.

5. Selection of Alternative Structural Flood Mitigation Measures

Ms. Hipolito commented that the Study should present some details about the selection of alternatives considering parameters (criteria) in technical, social, economic, financial and environmental aspects. Mr. Otogawa replied to make an attempt to present such details on the structural flood mitigation measures.

6. On-site Flood Regulation Pond

Ms. Hipolito commented that the JICA Study Team has preliminarily proposed to compel the land developer to accommodate 3% land of sub-division as the site for the on-site flood regulation pond by way of an ordinance, but further clarification on the plan would be required taking other issuances/rules imposed on the land developers (e.g. open space, utilities), because there might be too many impositions on them. Mr. Otogawa replied that it is virtually difficult to take interview to each of land developers about the proposed plan but the further clarification would be made through discussions on the relevant government agencies.

7. Design Scale for Proposed Structural Flood Mitigation Measures

Mr. Cruz asked about the design flood scales to be adopted in the proposed plan. He also emphasized that the design scale should be decided taking the recent flood in the Typhoon Milenyo, which has a recurrence probability of more than 50-year return period. He further commented that the report on page 29 should be revised in accordance with the DPWH Standards and Guidelines, which do not specify 50-year return for flood control but for bridges.

Ms. Hipolito also commented that the JICA Study Team might consider 20-year flood as the target design level because it is adopted in the Study on Nationwide Flood Risk Assessment, and the Team should present the various alternatives to the Cavite LGUs for their guidance and selection.

Mr. Otogawa replied that the fixed target design level (say 20-year return period as the design scale) is hardly applied to all rivers in the Study Area due to the constraint of land acquisition and the allowable design level for each river is preliminarily conceived as 10-year return period for Imus River and 20-year return period for San Juan and Canas River.

9. Establishment of Flood Mitigation Committee (FMC)

Ms. Cayabyab presented the organizational structure of the “proposed FMC” and she emphasized the following functions required to FMC:

- To take the multi-sectoral involvement to promote ownership of the project,
- To help monitor the encroachment of illegal squatters and
- To encourage and monitor the land developer (subdivisions) to establish

the 3% for the on-site flood regulation pond.

In connection with the above explanation on the FMC, Ms. Hipolito asked if Ms. Cayabyab considered the existing DCCs, because the functions of FMC proposed by her might duplicate with those of the DCCs. Ms. Hipolito also commented that there are a lot of committees being established in the province and sometimes they involve the same members. Ms. Cayabyab answered that such consideration was made. In fact before she prepared the FMC organizational structure, she called the LGU and the person in charge in the province regarding the organizational structure of the MDCC, and it was found out that PDCC and MDCC only have the lists of members and they are active only during the calamity.

Mr. Otagawa further asked about the expected budgetary source for activities of FMC. In response to the question, Ms. Cayabyab informed the following points:

- The structure of FMC proposed by her is actually same as that of ICM (“Integrated Coastal Management”) in Cavite. Wherein, an attempt could be made to replicate some of the experiences and lessons learned of Bataan LGU in terms of financing the committee.
- As an example in Bataan Province, they have a MOA with the Bataan Coastal Care Foundation (BCCF-Private Sector) which provides for a 50% sharing between the provincial government and the BCCF on the annual budget of 2 million pesos. Likewise in the experience of Batangas they do not have MOA but the private sector just contribute to the implementation by project or activities.
- It would be possible to replicate the system to the objective FMC, since there are a lot of private sectors/industries in the province, which are presently doing such programs aside from of course getting the counterpart of the province and LGUs.

Ms. Hipolito added her comment such that it would be possible to secure certain fund from the budget of Local Development Fund of LGUs in their disaster funds that are administered by DCCs.

LIST OF ATTENDANCE

NAME	POSITION	OFFICE	CONTACT NO.
Ciriaco F.	Engr. V	DPWH	(02)481-0276
Belinda Fajardo	Chief Env.	ESO- DPWH	(02)304-3222
Wilfredo F. Galang	Engr. III	ESO- DPWH	(02)304-3287
Dolores Hipolito	PM II	DPWH-FCSEC	(02)628-1227
Martiniano M. Dela Cruz, Sr.	Engr. III	BOD	(02)304-3065
Elmo F. Atillano	ENGR. III	DPWH	(02)304-3098
Renan Florendo	Engr. II	DPWH	(02)304-3764
Charlie Bautista	Engr. IV	DPWH PMO	(02)641-0732
Eugenio Diaz, Jr.	Engr. II	DENR	(02)924-2540
Anabelle Cayabyab	Sr. Environmentalist	PG-ENRO	(046)419-0916

2nd Stakeholder Meeting

Gloria Atillano	Staff	DPWH	
Romeo Gilbuna, Jr.	Water Quality Envi. Specialist	WCI	(02)925-3621
Makihiko Otagawa	Leader of JICA Study Team	JICA Study Team	
Makoto Mitsukura	Member of JICA Study Team	JICA Study Team	
Hiroshi Matsuo	Member of JICA Study Team	JICA Study Team	
Kazunobu Kamimura	Member of JICA Study Team	JICA Study Team	

MINUTES OF THE SECOND STAKEHOLDER MEETING (PART-2)

FOR

**THE STUDY ON COMPREHENSIVE FLOOD MITIGATION FOR
CAVITE LOWLAND AREA**

Venue: Board Room, Bayview Hotel, Roxas Blvd., Manila

Date: October 03, 2007

Attendees: Copy Attached

The Steering Committee Meeting was held from 9:45 a.m. to 12:30 noon on October 03, 2007. The meeting was convened by the Chair, Mr. Reito V. David, Project Manager, Flood Control and Sabo Engineering Center, DPWH. After the introduction of attendees, the JICA Study Team headed by Mr. Otagawa presented the Progress Report on the Master Plan Study. The list of attendees to the Meeting is shown in the Annex. The principal items discussed and/or concluded in the Meeting are as presented below.

1. Typhoon Milenyo

The JICA Study Team reported that the Typhoon Milenyo in 2006 would be the maximum-recorded flood causing the largest damage including death of 28 people. In this connection, Mr. Philip F. Menez, Project Manager, DPWH- PMO-Major Flood Control & Drainage asked if the extra ordinary size of high tide had occurred in the Typhoon as one of the major causes of the flood damage.

Mr. Otagawa replied that the Typhoon caused the rather high tidal level, but it is almost equal to the mean high tide of EL. 0.8m. Ms. Eden V. Austria, PPDC-Provincial Gov. of Cavite further informed that the substantial part of the flood damage inflicted by the flood could be attributed to collapse of the existing irrigation dam in General Trias, Cavite. She added that NIA is now rehabilitating the damages of the dam.

2. River Bridge Section Clogged by Drifting Wood

In connection with the National Road Bridge in Rosario, which is often clogged by the driftwoods during floods, Ms. Eden Austria asked if DPWH has a plan for demolition or other infrastructure measures for the bridge to prevent the driftwoods from clogging the waterway. In response to the question, Mr. Menez informed that the improvement and/or demolition plan has not been prepared yet, and other remedial measures would be examined.

3. Land as the Proposed Sites for Flood Mitigation

Mr. Menez commented that there currently exist fewer houses at the sites proposed for flood mitigation such as those for the off-site flood detention pond, the flood diversion channel, the flood evacuation area and the settlement area, and it would be not costly to acquire the land for them. The rapid and intensive urbanization is, however, in progress in the Study Area, and therefore, the proposed sites would be populated soon later. From this point of view, he suggested, the Provincial Government of Cavite should coordinate with the relevant cities and municipalities to secure the land as early as possible.

In response, Ms. Austria informed the following two items:

- The Local Governments relevant to the Study Area are going to hold the meeting on the comprehensive municipal land use plan on October 05, 2007. They have the database

and criteria for land use plan different from the concepts in the Study, and the JICA Study Team is advised to present the progress results of the Study in the meeting so that they could evaluate and assess the proposed structural measures.

- The Provincial Disaster Planning Workshop is also scheduled. The issues and proposals raised in the Study would be discussed in the Workshop.

4. Obligation of Land Developer for Construction of On-Site Flood Regulation Pond

Mr. Menez suggested that the cost for construction of the on-site flood regulation pond could be excluded from the project cost, if an ordinance is newly enacted to permit land development on the condition that the land developers construct the on-site flood regulation pond with their own expenditure. Mr. Otogawa replied that this issue contains the sensitive matter, and the JICA Study Team needs further discussions with the Local Government. Ms. Austria also informed that it would be possible to include the obligation of construction of the on-site regulation pond by the land developer into the development plan of the municipalities.

5. Pilot Project

Mr. Prisco Nilo, Department Director, PAGASA informed that his office is now urging the community-based activities for flood warning and evacuation, and he asked if the proposed pilot project would not include the activities relevant to flood warning and evacuation. Mr. Otogawa replied that the principal objective of the First Pilot Project would be addressed, based on the results of discussions with NGOs, to the activities relevant to removal of garbage from the waterway, which could be identified as one of the important issues for non-structural flood mitigation measure. Nevertheless, the JICA Study Team in collaboration with the communities would also undertake the following activities for flood warning and evacuation:

- To formulate the plan for the flood warning and evacuation system (FWES) during this Master Plan Stage, including the necessary technical specifications (such as the rainfall intensities/river water levels for issuance of flood warning and command for evacuation), organization setup, communication route and equipment, and
- To develop the flood risk map, which indicates the extent of the flood risk area, the eligible flood evacuation routes and evacuation centers during the Feasibility Study Stage.

6. Organization Setup of FMC

Mr. Huillio Belleza, the Assistant Regional Director, DPWH Region IV-A suggested that since the Provincial Disaster Coordination Committee (PDCC) has been already set up, the proposed FMC should be under the umbrella of PDCC as its subcommittee. Mr. Otogawa replied that the FMC undertakes the following study-oriented activities, which would be rather different from the tasks of PDCC, and therefore, the FMC would need to be independently established, although the close relationship and coordination between the PDCC and FMC is required.

- To propagate and/or disseminate the information and knowledge accumulated in the Study,
- To execute the particular flood mitigation programs proposed in the Study, and
- To facilitate the sustainable operation and maintenance of the flood mitigation facilities proposed in the Study.

Ms. Anabelle Cayabyab, Senior Environmental Management Specialist, Provincial Government of Cavite added that the responsibilities or functions of the FMC would include (1) support in monitoring the encroachment of informal settlers; (2) encouragement and monitoring of the

land developer to establish the 3% for the on-site flood regulation pond; (3) strengthening of multi-sectoral involvement to promote ownership of the project for its continuity and sustainability; and (4) promotion of social corporate responsibilities among industries and private sector.

Mr. V. Devid finally commented that the JICA Study Team should clarify further details of the FMC including the organization setup and required roles/authorities based on the discussions with the Local Government Units and the Team should present the results of clarification in the following report.

7. Watershed Management

Mr. Cesar Odi, Forester DENR suggested that a particular attention should be given to the headwaters or the upland watershed, since they are the dominant sources of flooding in lowland area. He also commented that the low flow discharge of the rivers during a dry season is now being reduced, which would be possibly related to degradation of water-holding capacity in the upland watershed. Mr. Romeo Anonuevo, Assistant Regional Manager, NIA Region IV likewise reported reduction of irrigable area in the Study Area affected by inadequacy of river flow discharge during a dry season. In connection with these comments and information, Mr. Resito David suggested certain countermeasures for such degradation of the upland watershed should be contemplated in the Study.

Ms. Eden Austria commented that DENR and NIA would be more knowledgeable about such degradation of upland watershed, and should propose the necessary relief measures as the inputs to the Study. Furthermore, Ms. Cayabyab added that one of the principal reasons why the rivers in Cavite have inadequate water during dry season is because of the direct impact of land development in the upland area where it caused the lowering of the ground water. On other hand, during rainy season rivers are overflowed with water because the water holding capacity of the watershed area becomes weaker.

Mr. Rosito David suggested that the driftwood would be one of the major causes to clog the waterway, and the appropriate upland forest management would minimize the driftwoods. Mr. Otagawa replied that it is virtually difficult to minimize the driftwoods since there is no sizable forest area in the Study Area, and the driftwood could come from every small bushes scattered in the basin.

In connection with the explanation of Mr. Otagawa, Mr. Kamoto Minoru, JICA Advisor commented that the major concerns on the watershed management would be given to the excessive land development in the middle reaches rather than conservation of the forests in the upland. Mr. Otagawa finally agreed that the Study would be made to highlight deterioration of the runoff conditions in the upland watershed, and propose the future land use plan taking them into consideration.

Mr. Cesar Odi added that all of the issues raised by the members of the Steering Committee during the discussion should reflect to the Study, so that other concerned government agencies could address those problems specially the degradation of the upland watershed. He also commented that the results of the Study by the external technical assistance would be of great impact to decision makers of DENR to prioritize the rehabilitation of the upland watershed.

8. Demolition of Encroachments in the River Area

Mr. V. David suggested that the proposed FMC should make sure that the informal settlers would not come back to the danger zones after dismantling or relocating them. Mr. Otagawa mentioned that one of the roles of FMC is to check the riverbank during dry season and to ensure that the informal settler will not come back. He added that maintenance of critical zone is also part of the role of FMC.

9. Effect of NIA Irrigation Dams for Flood Mitigation

Mr. Mitsunaga Takeo, the JICA Sabo Expert asked if the existing irrigation dams managed by NIA in the Study Area could contribute a certain effects on flood mitigation. Mr. Anonuevo replied that there exist about 50 irrigation dams, but these dams are not the reservoir-type possessing extremely small storage capacities and, therefore not effective for flood mitigation.

10. River Management

Mr. Kamoto asked which entities would manage and maintain the flood mitigation structures proposed in the Study. Mr. Otogowa replied that the JICA Study Team would clarify the roles and responsibilities of the FMC as well as the relevant local and national government agencies for management of the structures.

LIST OF ATTENDANCE

NAME	POSITION	OFFICE	CONTACT NO.
Resito V. David	Project Director	PMO- FCSEC	(02)640-0160
Philip F Menez	Project Director	DPWH-PMO-Major Flood Control & Drainage	(02)304-3829
Romeo Anonuevo	Asst. Reg. Manager.	NIA Reg. IV	(049)559-0724
Eden V. Austria	PPDC-Cavite	PPDO- Cavite	(046)419-469
Huillio Belleza	Assistant Regional Director	DPWH-Reg. 4-A	0917-839-3860
Florentino Sison	Dept. Chief Operator	OCD-NDCC	(02)91-1406
Cesar P. Odi	Forester	DENR	(02)924-2540
Prisco Nilo	PAGASA	Dep. Dir.	
Elmo Atillano	Engineer III	DPWH-DPD	
Dolores Hipolito	PM II	DPWH-PMO-FCSEC	(02)628-1227
Harold Uyap		DPWH-PMO-FCSEC	(02)6487-1227
Anabelle Cayabyab	Sr. Environmentalist	PG-ENRO	
Kamoto Minoru	JICA Advisor	DPWH	
Yoshio Tokunaga	JICA Chief Advisor	DPWH-PMO-FCSEC	0921-699-1330
Takeo Mitsunaga	JICA Sabo Expert	DPWH-PMO-FCSEC	
Takeshi Kanome	Assistant Resident Representative	JICA Philippine Office	
Beth	JICA	JICA Philippine Office	
Makihiko Otogawa	Leader of JICA Study Team	JICA Study Team	
Makoto Mitsukura	Member of JICA Study Team	JICA Study Team	
Hiroshi Matsuo	Member of JICA Study Team	JICA Study Team	
Kazunobu Kamimura	Member of JICA Study Team	JICA Study Team	

**The Study on the Comprehensive Flood Mitigation Program for
Cavite Lowland Areas
Initial Environmental Examination (IEE)**

**Minutes of the
THIRD STAKEHOLDER'S CONSULTATION MEETING
Audio Visual Room (AVR), Municipal Building, General Trias, Cavite
27 November 2007**

The 3rd Stakeholder's Consultation for the Study on the Comprehensive Flood Mitigation Program for Cavite Lowland Areas was held on November 27, 2007 at the Audio Visual Room of the Municipal Hall of General Trias, Cavite. Residents, especially those coming from the Study Area, LGU representatives, NGO/POs from Cavite as well representatives of some of the primary government agencies such as DPWH, NIA, PICAD, RDCC attended the said Consultation which formally started at around 9:00 am.

A documentary film on the "Ormoc experience was shown to the participants prior to the formal opening of the program. The meeting formally opened with a short prayer led by Ms. Anabelle Cayabyab, Senior Environmental Specialist of PG-ENRO who also served as the master of ceremonies of the activity. The welcome remarks of the Hon. Mayor Luis Ferrer IV of General Trias was delivered in his behalf by Dr. Renato Escorel, Head of the General Trias MENRO.

The second and main part of the program was highlighted by the presentation of Mr. Makihiko Otagawa, Team Leader of the JICA Study Team, of the Study background and the proposed Flood Mitigation Measures arising from the initial Scoping and IEE initial results. Ms. Cayabyab and Mr. Crescencio Doma helped discuss some parts of the presentation in Tagalog upon the request of some participants particularly among residents.

Engr. Rolinio Pozas, Head of PG-ENRO Cavite also gave a brief message in behalf of Governor Ayong Maliksi where he expressed the need for the people to take the flooding incidents in Cavite seriously and do their share in addressing the problem.

Even before the program gets into the Open Forum Part, several points were already raised from the floor which for courtesy reasons was entertained by Ms. Cayabyab and Mr. Doma. Salient points and issues raised were as follows:

Dr. Renato Escorel, head of MENRO in General Trias, pointed out that the main contributing factor to flooding in the lowland areas of Cavite is the rapid land conversion and development. He also expressed his personal agreement or support to the proposal of the JICA Study Team to require subdivision developers to allocate 3% of their property (subdivision) land for the on-site retarding ponds. In response, Ms. Cayabyab expressed that said idea should be implemented through an Executive Order of the Province. Said suggestion according to her is now being studied.

Mr. Jose Monzon from Bacao mentioned that the post at the midpoint of the bridge is the one causing the clogging of the river and eventual flooding and they were hoping said post be removed. A representative from the DPWH mentioned that they are already addressing said problem. Ms. Dolores Hipolito also of DPWH added that while people think the solution to the problem is to remove the post, said suggestion can be done but might require a construction of a new bridge to replace it. She further stressed that said bridge is still very much functional. She also pointed that probably, alternative non-structural measures of lesser budget can be done to mitigate the problem and this would merely entail preventing "solid materials" from the upper portion of the river from reaching said area (bridge post). This way, other priority projects can be addressed by the government.

Mr. Cris Pakingan, President of AGCOM (Anti-Graft) Association Inc. shared his insights regarding the cause of flooding in the first district of Cavite. He explained that one of the causes of the back flow of the rivers in Kawit, General Trias and Noveleta is the land reclamation at the mouth of San Juan River to give way to subdivisions. He also showed pictures of his documentations and encouraged the people to be vigilant on the issue in order to solve the flooding problem in Cavite.

Ms. Patricia Kennedy of MGB-4 (Mines and Geosciences Bureau) expresses a positive remark and full support to the 3% land allocation of the subdivision developers for the on-site retarding point.

The second part of the presentations resumed with Ms. Andrelita Sto. Domingo, IEE Consultant from Woodfields Consultants Inc. discussion of some of the results of Initial Environmental Examination (IEE). This was followed by the presentation of results of the social survey and some resettlement concerns by Mr. Crescencio Doma, also from Woodfields Consultant Inc.

A continuation of the Open Forum (initially opened earlier) was facilitated by Mr. Doma and Ms. Cayabyab. Highlights of the discussions are presented below:

Mr. Larry Monzon, Head of GSO further stressed that the provincial government through the effort of the Governor (Hon. Ireneo “ayong” Maliksi) is determined to pursue and implement flood mitigation plans. He also added that resettlement plans and its development is now being done. He also requested that this thing should be emphasized and made known to the residents concerned.

Mr. Edwin Marpiga, Staff of Urban Poor in Rosario, Cavite reacted to what was mentioned earlier in the presentation of Mr. Doma when he mentioned that “...sometimes, the urban poor gets the impression that they are always against the project of the local government”. He pointed out that they are not against any project that will enhance the welfare of the people. He said, he only laments the fact miscommunication between the parties involved. He emphasized that there is just limited information dissemination. He likewise expressed his appreciation of Mr. Doma’s recommendation that their group be involved in future discussion regarding the Study, especially in the preparations for the implementation of whatever proposed project from the Master Plan would be approved.

Incoming Barangay Chairman Nestor Ignacio of Seneguelazan, Bacoor, expressed his disappointment regarding the implementation of the R1 extension project. He mentioned that the original plan for that project is “via duct”, not reclamation of land. He further noted that there is no public hearing conducted before the pursuance of the project. He said he is mentioning this because he would not want the same thing to happen in case the proposed project coming the results of the current Study would be approved and implemented. Ms. Cayabyab answered that based on the result of the study on flood control, the R1 extension is a combination of via duct and reclamation of lands. She also stressed that the provincial government is not the only entity involved in the conduct of public hearings since they are mainly institutions involved in the Study.

Ms. Teresita Belleza of Urban Poor stated that one of the main problems behind flooding is on personal discipline. She stressed that people should cooperate and do their share in solving the problem. She also suggested that LGU’s should always coordinate with NGO’s and PO’s so the latter would also know how they can extend support to government projects.

Mr. Vic Tomazar of Civil Defense - Regional Disaster Coordinating Council further emphasized the value of discipline. He noted that the project would not push through if there were no initial action and participation of the residents especially of the affected area. He added that in case the proposal may not be approved, results of the IEE and the Study as a while can already be utilized by the LGUs and the communities in doing their share in addressing the flooding problem in the

province.

The closing remarks was delivered by Mr. Larry Monzon. He expressed appreciation and gratitude to all the people and organization involved in the project.

Mr. Maikihiko Otagawa likewise expressed his gratitude to the people of Cavite especially those who attended the Consultation Meeting. He further emphasized that the project should not be treated as JICA's Study, rather it's a Study and Project for the people of Cavite. He also asked the participants to support future activities of the Study and invited them to take part in the activities slated early next year.

The meeting ended at around 1:00 pm.

Prepared by:
Marilyn Musa, WCI
CM Doma,

WCI

List of Attendants (1/2)

No.	NAME	FIRM / AGENCY	CONTACT No.	E-MAIL ADD	SIGNATURE
1	MARCO TROSTECAN	M FARMCTADZA	0927321789		
2	Capt. Marina Galang	Tapia S.T.C.	09285047496		
3	Capt. Cecilio Dizon	Mulawin, Tando, Cavite	09204105982		
4	Kenyatta Melquida Cruz	- do -			
5	FIGARDO B. NOON	M.I.A.	0727-6452-069		
	JOSE I. MONTON	BACAOI (S.C.)	887-1617		
6	Concepcion Filiano	BACAO I	(46) 887 2403		
7	Amalia Santos	BACAO II			
8	LUISITO JIMENEZ	BACAO II	09054212215		
9	EFREN P. CRIMAN	MPDC-Davaleta	09192282177	medibmpdc@gmail.com	
10	Haroldo Balun	Ligtang III			
11	Sammy Soliman	Ligtang III			
12	Evangelina N. Gimakul	Bacau II	438-7398 09102654405		
13	Consuelo N. Romas	Bacau II	438-7398		
14	Aurelia Guinday	MIWDO-Davao	4165393		
15	Rebecca C. Guerrero	MSWMO-Coa-Tri	5091357		

No.	NAME	FIRM / AGENCY	CONTACT No.	E-MAIL ADD	SIGNATURE
16	ERENITA V. TIBAYAN	LGU - MSND	8620795		
17	NEVITA C. AMBAS	LGU - INDANG	8620830; 4150710		
18	PROCESO H. CURIOSO	- do -	8620802		
19	MAKIHKO OTAGAWA	JICA Study Team			
20	Y. ISHIZUKA	"			
21	Eleczar Pupido	"	419-1060		
22	Cruz Pakingan Pres.	ACCOM ASSN. INC	0927-409-8945		
23	Joseito A. PARIN	ECODA/President	431-72-47		
24	RICO ASIM	LONG BEACH NEIGHBORHOOD ASSN.	09155875857		
25	Maria Luisa M. Pelong	LGU - Davao	850 0656		
26	MAN CARUNCONG	LGU - DAVAO	850. 0650		
27	Rustica So	Barangay 7A			
28	JENILEE DIAZ	Woodfields Consultants Inc.	436-7360	jenindia2@gmail.com	
29	MARILYNN P. MUSA	Woodfields Consultants Inc.	436-7360	kutonghp-my30@yahoo.com	
30	ALBERT V. KWARTEL	LGU/TAGAYUDAN	4133-40		

List of Attendants (2/2)

No	NAME	ADDRESS	CONTACT No.	SIGNATURE
1	Rosalina S. Mondia	7414 TRAMO ST. B.K.C	878-72-53	R.S. Mondia
2	Corazon S. Caragay	1198 TRAMO ST. B.K.C	434-97-02	C. Caragay
3	Miguel A. Lumuroso	288 Ely Tapia G.T.C.	09186293945	Miguel
4	Norma C. Lumuroso	293 Ely Tapia G.T.C.	09186293945	N. Lumuroso
5	FRANZ CRIMAN	MPPE Pradeta, Cavite	091-	
6	Udanda D. Yambot	San J. J. H. I.C.	09203014565	U. Yambot
7	Leonardo Bellas	Alapan I-A IMUS	09063604685	L. Bellas
8	Josie Bongolito	ALAPAN II-A IMUS		J. Bongolito
9	Yaminda Dimantip	Bacoot G.T.C	09102034614	Y. Dimantip
10	Emelita Prince	Bacoot I G.T.C	09156776122	E. Prince
11	Harold Castro	Bacoot G.T.C	09212588675	H. Castro
12	Marilyn Lumuroso	San Juan G.T.C		M. Lumuroso
13	Agnes F. Rosal	San Juan II G.T.C		A. Rosal
14	Maristelle Ocava	San Juan II G.T.C	09092537411	M. Ocava
15	HELVEN Y. DIONSON	ROSARIO CAU.	09097998751	H. Dionson
16	JERRO R. DUPAN	ROSARIO CIV. (MPPE)	09215034707	J. Dupan

No	NAME	ADDRESS	CONTACT No.	SIGNATURE
17	Lenora J. Dionson	Rox. Cav	09067898731	L. Dionson
18	Ellen R. Ornes	Bacoot Km. Tiar, Cavite	09182416872	E. Ornes
19	Emesto Ignacio	BOSINAGULON B. C.	09062163997	E. Ignacio
20	JULIAN DELA CRUZ	SINGAPO LA SAN B.C.	09105590987	J. Dela Cruz

Rosalina B. Carague Uller Baguio Wawa III Ros. Cav.
URBAN POOR 09167067771

MELISA Gomez
MIZON | ROSARIO, CAVITE
SAMAHANGI KAPIT. BIKIG 0924198003

Divina H. Dumali - "Dhoru" - Bacoot II - Km. Tiar Cavite
Lenora Dionson - # 09212057605

Study on Comprehensive Flood Mitigation for the Lowland Areas of Cavite

4th Stakeholder's Meeting

Sangguniang Bayan Session Hall, Imus, Cavite

July 12, 2008

Attendance: see attached

Program: see attached

Content of the Minutes (Brief)

I. Introduction

Ms. Anna Cayabyab gave an overview speech about the rationale of the stakeholders meeting, which she said that this particular meeting aim to provide a much deeper understanding on the EIA Study of the Proposed Retarding Basin.

A. Welcome Remarks

Welcome remarks were done by several political leaders as follows:

Mayor Manny Maliksi welcomes everyone by saying that people should realize the impact of the flooding on their area. Together they can come up with the ways to mitigate the flooding which becomes a regular experience in the town.

Congressman Abaya said that this project is a realization that there is a flooding problem in the province thus, consultation meetings are vital for the community to be well informed and well educated. He also said that the implementation part of the study will push through given that there are enough funds.

Mayor Tic Aguinaldo of Kawit Cavite said that years ago there are no flooding problems in their town, but now even the non-flood prone areas experience flooding. Also, shallowing of the seas/rivers is very evident. There is a need to work together not only upon planning but more importantly upon implementation of such projects.

II. Acknowledgment of the Participants

Ms. Anna Cayabyab acknowledged every participant who attended the stakeholders meeting.

III. Progress Report of the Study

Mr. Makihiko Otagawa presented the progress report of the study.

Attached is the powerpoint presentation.

IV. Welcome Remarks

Gov. Ayong Maliksi welcome the participants, he emphasize the causes of flooding in the province. These includes improper solid waste management; dumping and covering of waterways and creeks; the influx of informal settlers (housing problems). He also mentioned some of the possible solutions to these problems which includes integrated solid waste and sewerage management, collective action to address problems in flooding, LGU monitoring scheme to control the migration of the informal settlers on the coastline areas/river banks and housing projects.

V. Overview of the EIA Study

Ms. Cherry Rivera, the Team Leader of the project study team gave an overview of the EIA Study commissioned by CESM.

Attached is the Powerpoint presentation.

VI. Open Forum/Discussion

Ms. Carrie Chua of Carsadang Bago, Owner of Orchid Farm

Question: Upon project implementation, what do I expect, do I get relocated?

Answer: We will check the possibility/condition on acquiring lands; we still need to clarify the issues and conditions as well as the problems and difficulties associated with land acquisition.

Mr. Simeon Papa of Brgy. Buhay na Tubig

Question: Upon approval of this project, what will be the condition or system for the farmland owners?

Answer: We will look at the productivity of farmland, how it is used, if the land is too expensive we will look for another area where the retarding basins can be constructed. We will consider the cost of compensation and resettlement.

Atty. Jessie Recimo (Municipal Legal Officer)

Question: If the project will push through, can the owner still use the area for other purposes like for instance as fish pond?

Answer: If it will be bought by the government, it will be used for flood control, but as much as possible we will optimize the use of the retarding basin, like for example in the case of Japan where they use the basin as tennis court during dry season.

Ms. Anna Cayabyab

Question: Under the EMB Revised Procedural Manual, there is no specific term for the retarding basin, where this category will fall?

Answer: Possible that it will fall under the category of Infrastructure (Bridges, etc.), we would like to advise that upon the submission of the report put that matter into query questions of the report.

Mr. Ricardo Principe, Jr.

Question: What will the format of this project upon submission to EMB?

Answer: It will be one application for ECC even if it is on several sites.

Ms. Carrie Chua

Question: What is the depth of the basin?

Answer: It depends, but on the average it's 3 meter.

Question: Do you expect the land to erode?

Answer: We will have several slope protection measures like sodding and the entry of the flood water will be controlled (with control gates), there will be natural methods to control the flood.

Mr. Jimenez, Academe

Question: How long it will be useful for the community/government?

Answer: It's a permanent structure

The meeting ended at about 12:20pm.

4th Stakeholder Meeting

July 11, 2008 Sanguniang Bayan Session Hall 8:00 a.m to 12:00 p.m

LIST OF ATTENDANCE

	NAME	POSITION	OFFICE
1	Tuzon Roqulle Jr	Project Engr.	ACM Landholding
2	Carlos Adelbeth R.	Engr.III	Provl.Engr.Office
3	Nolinio Powa	PGENRO	PGENRO
4	Sherwin Valeroso Ch. E	EMS II	PGENRO
5	Simeon Papa	Cartain	BWT
6	Susan Lozada		BWT
7	Guanito Sayurin		BWT
8	Emma Copare	MENRO Staff	Bacoor
9	Jonahtan S. Jimenes	Teacher I	INHS
10	Sixto Arandia	Municipal Agri.	Agri Office imus
11	Nolasco Madlangbayan	Engr II	DPWH DEO
12	Rolando Clingasan	MHO Imus	Imus HEALTH
13	Greg Cavangco	Planning Officer II	MPDO Imus
14	Nicanor Garcia	Admin Aid.	PGENRO
15	Eleazar Rupido		JICA CTI
16	Makihiko Otogawa		JICA CTI
17	Eduardo Reyes		
18	Joseph Emilo Abaya	Rep.Fist Distric Cavite	
19	Eduardo Enriquez	MPDC Staff	MPDC Rosario
20	Epren Criman	MPDC	Noveleta
21	Reynaldo Aginaldo	Mayor	Kawit
22	Recardo Principe Jr.	EMB 4a	Manila
23	Joaquin Sagarabaroga	Mall Manager	FRC Mall
24	Manny Maliksi	MAYOR	Imus
25	Carmie Castro	Mnager Marco Orchsds	
26	Cherry Rivera	CESM	Greenhills

27	Jojo Cruz	CESM	
28	Corazon Delmundo	Menro	Imus
29	Joy Reyes	CESM	Greenhills
30	Jessie Pasimo	Mun.Legal office	Imus
31	Betela Delavero	CESM	
32	DL Sagenes	IEC Supervisor	MENRO
33	Jerry Delmundo	IEC Asst.	MENRO
34	Dolores Hipolito	PMII	DPWH
35	Willi Venegas	OPG	OPG
36	Adelberth Carlos	Engr.III	PEO
37	Ica siano Pequiroz	Concilor	BWT
38	Carlos Polorical	Captain	C.Bago
39	Armando Lgazi	Cheff	C.Bago
40	Vicky Lazaro	OIC MENRO	MENRO
41	Larry Munsod	CDCC-PDCC	PDCC-GSO
42	Antonio Napalawi	EA Kawit	MAYORS office
43	Rico Memije	EA Kawit	MAYORS office
44	Jimmy Nitro	PCO	Liwayusan MKTG.
45	Menanadro Dimaranan	OIC MENRO	Tanza
46	Alberto Capua	Kalिकासn Cordinator	Pillar Parish
47	Nahon Talastas		MPDC
48	Silbino Bautista		BUHAY
49	Rodel Pelaes	MPDC	MPDO
50	Nicanor Garcia	Admin.AID	PGENRO
51	Ernesto Sayoc	Councilor	C Bago
52	Ma. Rosario Geneza	Planning Officer	LGU Rosario
53	Jaime Munzon	EC Officer	
54	Fernando Ortua	OFF V.MAYOR	Kawit
55	Doms Caoile	Reporter CTI	
56	EA Costa	OPE	
57	Exequiel Ropeta	Captain	Anabu I
58	Reynante Sipinas	ABC Press.	Anabu

59	Rodrigo Mostratis	PGENRO	TMC
60	Choy Villanueva	PGENRO	TMC
61	Virgilio Cueco	PGENRO	TMC
62	Jose Hereto	DPWH	Manila
63	Judalain Falso	DENR	
64	Nonie Ilaya	Medya	Cavite
65	Jerry Guina	Medya	

Study on Comprehensive Flood Mitigation for the Lowland Areas of Cavite

5th Stakeholder's Meeting

Sangguniang Bayan Session Hall, Imus, Cavite

September 30, 2008

1. The program started around 9:15am with the singing of the National Anthem, followed by an invocation.
2. Ms. Anna Cayabyab, acknowledged the presence of the participants, guests, the JICA team and the EIA survey project team. She also made a brief introduction of all the attendees.
3. The Head of the Municipal Environment and Natural Resources Office (MENRO), Ms. Corazon del Mundo, gave a Welcome Remarks on behalf of the Municipal Mayor Emmanuel Maliksi.
4. Mr. Kazuto Suzuki, Deputy Team Lead of the JICA Study Team, presented the progress of the Study on Proposed Retarding Basin at three locations. In each location, Mr. Suzuki presented the options for the configuration and design of the flood retarding basins. Mr. Suzuki gave the advantages and disadvantages of each option such as maximum utilization of the area, minimum area utilization, and the compromised area utilization.
5. After the presentation of Mr. Suzuki, Ms. Cherry Rivera, Environmental Impact Assessment (EIA) survey project team, presented the objectives, activities, and progress of the EIA survey.
6. Mr. Elmo Atillano of DPWH raised a question on the objectives of the traffic density survey. He questioned which term is more appropriate to use for the traffic survey, whether it is traffic density count or traffic classification. He said that he prefers to use traffic classification rather than traffic density. He also asked for the expected output of the traffic density count.
7. Ms. Rivera said that the traffic density is a much appropriate term to use for the traffic survey since the objective is to determine the level of service of a particular road. In determining the traffic density and the road capacity at current condition, the traffic impact assessment can study whether a particular road can still accommodate the additional volume that will be generated by the project particularly during construction wherein haulers are expected to move in and out of the site to dispose excavated materials. With this projected traffic with the proposed project, mitigating measures can be drawn up such as need for rerouting or need for access road.
8. Another question was raised again by Mr. Atillano of DPWH, he asked for the purpose/objectives of the well surveys. He does not agree with the presentation that the

proposed project will dry up the existing wells since the wells are constructed more than depth of the retarding basins. Mr. Atillano said that the drying up of the wells should not be an issue but rather the contamination of the wells due to the storage of water at the retarding basins.

9. Engr. Rivera clarified that the well survey is specifically for the shallow wells surrounding the proposed retarding basins. The well survey is part of the EIA study to determine whether the project will have an impact on the existing shallow wells. She explained that with the excavation of the retarding basins, there might be a possibility of affecting nearby shallow wells considering the possible increase in depth of the groundwater. If it will have an impact, then, appropriate mitigating measures have to be instituted. Engr. Rivera further explained that it is better to study the impact of the project on shallow wells during the design and planning phase, rather than be faced with problems later on when it is implemented.
10. To clarify some points, Mr. Jonathan Jimenez of Academe, reiterated that to his understanding, the retarding basins will be the dry type wherein after rain events, flood waters, will be discharged to the rivers. Mr. Jimenez said that there is no possibility that the water table will be contaminated. He said that the analysis of Mr. Atillano of DPWH is that the flood water will settle on the basins.
11. Mr. Elmo Atillano of DPWH said that it is clear to him that the basin is dry type, he was just asking for an explanation related to the drying up of the wells, he said that wells will not dry up because the ground water table of wells is deeper than the retarding basins.
12. Engr. Jimenez of Academe gave his opinion, he said that from what he knows the water table varies from one place to another, that is why the well survey is necessary.
13. In relation to relocation, Ms. _____ of Barangay Buhay na Tubig, raised a concern and suggestion that the relocation site should be at the nearby areas/barangays because they have their livelihood in their place.
14. Ms. Rivera said that the EIA survey, particularly the household survey, has some questions about project perception and also recommendations and suggestions on relocation. She encouraged the stakeholders to participate and answer these household survey questionnaires so that the team can gauged their sentiments and suggestions about the project. The JICA Study Team is considering the government lands as possible relocation sites.
15. Mr. Suzuki provided further explanation on the question of Mr. Atillano of DPWH on the significance of the survey in the shallow wells. He said that the survey of shallow wells is necessary because the retarding basins may affect the water level of the shallow wells. If the flood retarding basin is constructed deeper than existing shallow wells, then the wells might no longer reach the water table and dry up. However, if the well is deeper than the retarding basin, then there is a possibility that this phenomenon will not occur. He also said that there is a possibility that the flood water may contaminate the water quality of the wells, but, this is still the subject of the EIA survey. However, the basins will only temporarily store flood water and all this water will be drained to the

river after flood events. In his opinion, the possible contamination of the wells with river water may be remote. However, this will be further studied by the EIA survey.

16. Mr. Atillano of DPWH, said that since it is an environmental study, it is important that we sustain the water quality of the deep wells which have deeper water table. He said that there is also the probability that water will be contaminated.
17. Mr. Suzuki said that most of the water comes from the river, but will this river water affects the ground water? The storage time is just more than 24 hours. He doubts that this phenomena will cause contamination to the water quality. If there are concerns on the water quality of the wells even now because of the river water will contaminate the wells, then, the construction of basins will be stopped.
18. Mr. Lopengca, one of the affected families said that he is hoping also that the relocation site is not that far. He also asked what will happen to those poor residents, how they will relocate?
19. Ms. Rivera, these concerns (distance of possible relocation sites and source of livelihood) were included in the household surveys. She again encouraged the completion on the survey questionnaires by the stakeholders.
20. Mr. Suzuki said that all the concerns will be integrated on the final report of the EIA survey. If such opinions and suggestions are very important it will be reflected on the final report.
21. A suggestion was raised by Mr. Atillano of DPWH, for the traffic impact assessment. He said that is an alternate route will be developed during the construction stage of the basins, the study should also include the cost for the gasoline that will be incurred during re-routing.
22. Mr. Makoto Mitsukura, presented the activity report on the Flood Hazard Mapping exercise, awareness program and evacuation drill completed at the three barangays of Kawit, Cavite.
23. After the presentation, Mr. Alberto Capua suggested that the Flood Hazard Mapping in Kawit should also be replicated in Imus, Cavite.
24. A representative of Mines and Geosciences said that they are also doing a flood susceptibility map but their study is not an in depth study as compared to what the JICA team is doing. She asked the participants to study and keep the flood hazard map (distributed earlier) because a lot of information on the map are very useful and can be replicated by other barangays.
25. Dr. Renato Esquiver of General Trias wanted to know who will shoulder the expenses for the project as well as the compensation of affected families.

26. Mr. Suzuki answered that the cost of the structures will be shouldered by DPWH because it is very difficult for the LGUs to shoulder the compensation.
27. Mr. Atillano of DPWH, clarified that the component on the right of way is usually shouldered by DPWH but the cost of the site preparation and livelihood programs will be shouldered by the LGUs.
28. Mr. Suzuki said that it will depend on the MOA.
29. Ms. Anna Cayabyab, asked if the participant have further questions, opinions and suggestions.
30. There being no more further questions, Ms. Baby Del Mundo, MENRO of Imus, Cavite, thanked the participants and gave a closing remarks.

The meeting ended about 11:50am.

The Study on Comprehensive Flood Mitigation for Cavite Lowland Area

5th Stakeholder Meeting

Sanguniang Bayan Confernce room

September 30, 2008 - 10:30 A.M

A T T E N D A N C E

Name	Designation	Office	Tel. No:
Ferdinand Nuevo		OPA	419-2503
Juliana Herrera		Buhay na Tubig	
Perlita Cuenca			
Feliciano Cuenca			
Ma. Victoria Sastre	enumerator	CESM	(02) 724-2008
Marjorie Paguingan	enumerator	CESM	(02) 724-2008
Kieramee Gelongo	enumerator	CESM	(02) 724-2008
Joy S. Reyes	Junior Associate/ Socio-economist	CESM	(02) 724-2008
Adelberth Carlos	Engr.II		419-0387
Bethela Del Nero	Project Manager		
D. Ferey	ICIC		
F. Sagefe	ICIC		
Mario Silan	Provl.Engr.		419-206987
Andres Campana	Brgy.Tress		875-3793
Simeon Papa	Brgy. Captain		875-3793
Celso T. Bautista	Brgy.Buhay na Tubig		875-3793
G. Saiyilon			9179077992
Susan Lozada			9082114034
Icasiano De Quiros	Brgy.Buhay na Tubig		875-3793
Karen Camanog	HHROIV		419-2689
Rolanmdo Amor	Housing Staff		419-2689
Donato Gayo	Housing Staff		419-2689

Jimmy Nitro	PCO		471-4928
Emma G. Pida	MENRO		438-5861
Edgardo Enriquez	MPDC Staff		4438-0119
Elmo Atillano	Engr.III		304-3098
Gloria Sarte	Planning Officer III		
Pociano Tabing	Farmer		
David Tabing	Brgy.Kagawad		9202703312
Jessie Tabing	Farmer		417-4582
D.L. Sagenes	IEC MENRO		472-3033
J.M. Del Mundo	IEC Assistant.MENRO		472-3033
Alberto Capua	Coordinator OLP		478-3363
G. Delmonte	Buhay na Tubig		
Melben Besada	Buhay na Tubig		
Rolando Fabula	Buhay na Tubig		
Atty.Jessie Racimo	MLA Imus		9178840743
Kessy Reyes	JICA Prog.Asst.		
Olive M. Baguio	Engr.III	DPWH	9165182765
Sylvia Castro	Planing Officer IV		9165173870
Renato Escurel	MENRO Gen. Trias		
Nolasco Madlangbayan	Engr.II		9214127951
Anabelle Cayabayab	Supervising Ems.		
Jonathan Jimenez	INC / OIC MAPEA		471-05054
Rolando Talon Jr.	GEANLTS		9202301470
Kasuto Suzuki	JICA		
Makuto Mitsukura	JICA		
Kin Hitoshi	JICA		
Eleazar Rupido	JICA		
Elvis Aranzado	JICA		

Patricia Kennedy	MGB 4A		302-1360
Corazon Delmundo	MENRO Officer		472-3033
Eduardo Reyes			046-471-9101
Edgardo Nocon	SA.Engr.4A		9276452069
Cherry Rivera	CESM		9178566558
Rodel Cruz	PDC IV		419-1469
Ma. Elena Pulido	MPDC		437-7763
Menandro Dimaranan	MENRO		437-7763
Efren Criman	MPDC Noveleta		438-5337
Nadia Delacruz	PDCC		437-8940
Jemei Cobillio	MPDO		437-8940
Delfin Poblete	PGENRO		

Study on Comprehensive Flood Mitigation for the Lowland Areas of Cavite

6th Stakeholder's Meeting
Sangguniang Bayan Session Hall, Imus, Cavite
December 09, 2008

1. The program started around 9:40am with an invocation followed by the singing of the National Anthem.
2. Ms. Cherry Rivera, acknowledged the presence of the participants, guests, the JICA team and the EIA survey project team.
3. Mr. Kazuto Suzuki, Deputy Team Leader of the JICA Study Team, presented the progress of the Study on Proposed Retarding Basin at three locations.
4. After the presentation of Mr. Suzuki, Ms. Emadelyn Quinrones, the Land Acquisition and Resettlement Plan Specialist of JICA Study Team presented the social concerns such as profile of the Project Affected Persons (PAPs), the options for the affected PAPs such as Resettlement Action Plan (RAP) and other options to mitigate effects of the project on the people and institutions.
5. Query on the location of possible resettlement site was raised by Kagawad Villamor of Anabu 1G. Ms. Quinrones answered that the site is relatively near to the location of the 3 retarding basins. There is also a proposed site in Carsadang Bago to be developed as resettlement area.
6. Mr. Adelbert Carlos of Municipal Engineering Office suggested integrating the houses of the residents on the perimeter wall of the basins.
7. Mr. Nicanor of Anabu 1G asked how far the perimeter of the retarding basins from the river is.
8. Mr. Suzuki answered that the proposed retarding basins will be constructed right next to the river. The farthest end is about 50 meters from the river.
9. After the open forum, Ms. Cherry Rivera of EIA Survey Team presented the results of the EIA survey.
10. Ms. Baby Del Mundo of MENRO emphasized that the negative impacts of the project are manageable and can be addressed. She further asked if there is budget for the actual construction of the basins.
11. Mr. Suzuki said that the budget will come from DPWH, and estimated that the cost of the implementation will amount to billion pesos.

12. Ms. Baby Del Mundo encouraged the people to propose a resolution urging the LGU to fund the project implementation. Since this project will be submitted to DPWH and to NEDA, the resolution will hasten the process and will require the government to fund the said project.
13. Mr. Jaime Cobillo, Planning Officer of General Trias, Cavite said that if the project will pursue he fears that it might affect the irrigation canals, which will close the supply of irrigation water downstream. He also highlighted the economic viability of the project if ever it will be implemented. He said that the excavated soils can be sold which can help the government on paying the land owners.
14. Mr. Suzuki said that the project will not affect the irrigation canals, and overflow dikes will be provided. The irrigation channels will be protected.
15. Mr. Cobillo accepted the explanation; he suggested that the topsoil can be used as back fill of the solid waste land fill.
16. Mr. Suzuki said that in the estimated project cost, there is an item for the excavation and hauling cost of the soils but it depends on the government what they will do on the excavated soils.
17. Ms. Cherry, asked the participants if there were other questions, comments and suggestions. She even asked Mr. Ponciano Tabing if he has any comments or questions. Mr. Tabing said that after hearing and seeing the whole picture of the project, it is too early to raise their concerns.
18. Ms. Baby Del Mundo closed the program by saying that this kind of environmental project must be supported.
19. The meeting ended at around 12:30pm.

The Study on Comprehensive Flood Mitigation for Cavite Lowland Area

6th Stakeholder Meeting

Sanguniang Bayan Conference room

December 9, 2008 8:00 AM- 12:00PM

A T T E N D A N C E

	Name	Designation	Office	Tel. No:
1	Adelberth Carlos			
2	Romeo B. Belardo		DPWH Cavite	419-0058
3	Victor E. Catigbak Jr.	ACM Planning		
4	Cherry B. Rivera		CESM	
5	Marilen P. Umali	Division Chief (Admin)	GSO	
6	Russel Reyes		Press-Cleantech	
7	PO3 Magdalena Valdez		PCR PNCO	
8	Jacinto Advincula		Anabu I-G	
9	Edrean Villana		Anabu I-G	
10	Flafiano Esguerra		Anabu I-G	
11	Jonathan S. Jimenez	Teacher		
12	Alipia D. Espiritu	OIC-DENR		
13	Rolando B. Talon	Teacher		
14	PO1 Pabiton M.M.		PCR-PNCO	
15	Nicanor B. Garcia		PG-ENRO	
16	Analyn Camet		Anabu I-C	
17	Editha Camet		Anabu I-C	
18	Isagani Camet		Anabu I-C	
19	Lucila Gomez			
20	Loretta Plateros		Anabu I-G	
21	Nancy Guiller		Anabu I-G	
22	Maning Soneo		Anabu I-G	
23	Engr. Ariel Olaes	Mun. Engr.		
24	Engr. Jemie Cubillo	MPDC	MPDO - Gen. Trias	

The Study on Comprehensive Flood Mitigation for Cavite Lowland Area

6th Stakeholder Meeting

Sanguniang Bayan Conference room

December 9, 2008 8:00 AM- 12:00PM

A T T E N D A N C E

	Name	Designation	Office	Tel. No:
25	Ema Basa	MENRO		
26	Alelie Tabing		Anabu I-G	
27	Rolando Tabing		Anabu I-G	
28	Atty. Marlon Dayao	CTP		
29	M. Hizova	MGB 4	MGB	
30	Edgardo E. Enriquez	Statistician		
31	Rodel Pelaez	MPDC	MPDO - Imus	471-0576
32	P/Supt. Tita A. Fernandez		PNP	
33	Joy S. Reyes		CESM	
34	Edwin E. Silla		Anabu I-G	
35	Menandro Hernandez		Anabu I-G	
36	Benigno M. Fernando	EMS II		
37	Patricia V. Kennedy	MGB 4	MGB	
38	Perlita Cuenca			
39	Reseabelle A. Cuenca			
40	Rodelio D. Cruz	PPO IV	PPDO	419-1469
41	Poleciano Tabler	Farmer Dealer		
42	David Tabing		Anabu I-G	
43	Marianito Tabing		Anabu I-G	
44	Charita Tabaculde		Anabu I-G	
45	Dante Salinsan		Anabu I-G	
46	Niel D. Palapaz		Anabu I-G	
47	Shela Sarsona		Anabu I-G	
48	Alicanos Dalos		Anabu I-G	

The Study on Comprehensive Flood Mitigation for Cavite Lowland Area

6th Stakeholder Meeting

Sanguniang Bayan Conference room

December 9, 2008 8:00 AM- 12:00PM

A T T E N D A N C E

	Name	Designation	Office	Tel. No:
49	Bethela Del Nero		CESM	
50	Luisito Maliy	PIO		0917-2766852
51	Rey R. Valero	MENRO		
52	Emma Felly	MENRO		438-5861
53	Gregorio G Guhit	Draftsman		438-08
54	Kazuto Suzuki	JICA Study Team	DPWH Cavite	419-1060
55	Emadelyn Quinones	JICA Study Team	DPWH Cavite	419-1060
56	Eleazar Rupido			

Appendix-10
Terms of Reference on
Technical Assistance for
Preparatory Works of
Project Implementation
Proposed in the Study

**TERMS OF REFERENCE
ON
TECHNICAL ASSISTANCE FOR PREPARATORY WORKS OF PROJECT
IMPLEMENTATION PROPOSED IN THE STUDY ON COMPREHENSIVE
FLOOD MITIGATION FOR CAVITE LOWLAND AREA IN THE REPUBLIC
OF THE PHILIPPINES**

1. BACKGROUND AND OBJECTIVES OF TECHNICAL ASSISTANCE

The “Study on the Comprehensive Flood Mitigation for Cavite Lowland Area in the Republic of the Philippines” (hereinafter referred to as “the Study”) has been completed through the technical assistance of Japan International Cooperation Agency (hereinafter referred to as “JICA”) in March 2009. The Study proposed the following two non-structural measures as a part of the priority project components.

- (1) Enforcement of two ordinances entitled the “On-site Flood Regulation Pond” and “Urban Growth Management”, and
- (2) Diffusion of the flood hazard maps over the Cavite Province.

The above ordinances entitled the “On-site Flood Regulation Pond” aims at obligating the land developers of the new subdivisions to construct a on-site flood regulation pond at the most downstream point of the subdivision. On the other hand, the ordinance entitled “Urban Growth Management” requires the City and/or Municipal Office as the competent authority for the land use plan to delineate the “Urban Promotion Zone”, “Urbanization Control Zone”, and “Zone for Preservation of Farmland”.

Both of the ordinances are indispensable to properly control the excessive land development in the river basin so as to minimize the increment of the basin peak flood runoff discharge. The ordinances had been drafted in the Study, and the Provincial Government of Cavite intends to enforce the ordinances in the earliest opportunity.

The Provincial Government of Cavite further intends to continue development of the flood hazard map as initiated through the pilot project undertaken in the Study and diffuse knowledge and use of the maps over the whole cities and municipalities in the Province.

Under the above backgrounds, the Provincial Government requested the further technical assistance of JICA, which contains the following objectives:

- (1) To establish the Implementation Rules and Regulations (hereinafter referred to as “IRR”) for the above two ordinances,
- (2) To support for practical operation of IRR, and
- (3) To transfer the knowledge on development of the flood hazard map.

2. SCOPE OF WORKS

The Technical Assistance shall be extended to the following work items:

2.1 Establishment of IRR

The following items shall be clarified and incorporated into the contents of IRR:

- (1) The existing Philippine laws, rules and regulations related to the two (2) ordinances proposed in the Study,
- (2) The institutional setup for enforcement of the ordinances with referring to the present relevant laws/regulations and the existing relevant organization setup,
- (3) The planning and design standards for construction of the on-site flood regulation pond and delineation of the zones proposed in the Study,
- (4) All necessary documents and drawings together with the legal forms required to application to the ordinances,
- (5) All necessary procedures for application to the ordinance, evaluation/approval of the applications and registration/licensing of the applicants to the ordinances and
- (6) All requirements other than the above items (1) to (5).

2.2 Support for Practical Operation of IRR

The JICA expert(s) assigned of the Technical Assistance shall be present at the actual operation of the IRR for the objective two (2) ordinances to furnish the necessary advices and suggestions. Based on the lessons learned through presence of the expert (s), a guideline on the operation of IRR shall be prepared.

2.3 Transfer of Knowledge on Development of Flood Hazard Map

The materials for training of the following items shall be established and the knowledge on them shall be transferred to the counterpart personnel through the lectures, the practices/drills, the workshops and any other eligible methods:

- (1) Simulation of the potential flood inundation areas,
- (2) Plotting of the simulated potential flood inundation area on the topographic maps with use of the GIS system,
- (3) Inputting of the necessary information to be presented in the flood hazard map, and
- (4) Methodologies on dissemination and use of the flood hazard maps among the communities including the map exigencies for the residents.

2.4 Evaluation on the Results of Technical Assistance

The suitable spreadsheets shall be designed to capture and analyze the results of the aforesaid support for the practical operation of IRR and transfer of knowledge on development of the flood hazard map.

Evaluation on the results of the Technical Assistance shall be made based on the spreadsheets. The modalities of the evaluation of the Technical Assistance shall be discussed between the JICA experts and the counterpart personnel of the Provincial Government of Cavite and agreed by the counterpart personnel.

3. WORK SCHEDULE

The Technical Assistant shall be carried out in accordance with the tentative schedule as shown below.

Work Item	Month					
	1st	2nd	3rd	4th	5th	6th
Establishment of IRR	■					
Support for Practical Operation of IRR					■	
Transfer of Knowledge on Development of Flood Hazard Map	■					
Evaluation on the Results of Technical Assistance					■	■
Reporting	IC/R		P/R		DF/R	F/R

Note: IC/R: Inception Report P/R: Progress Report D/F: Draft Final Report F/R: Final Report

4. REPORTING

The following reports shall be submitted in accordance with the aforesaid tentative work schedule:

- (1) Inception Report: Thirty (30) copies at the commencement of Technical Assistance containing the objectives and methodologies of the Technical Assistance, the detailed work schedule, the assignment schedule, the names, the roles and responsibilities of the JICA experts,
- (2) Progress Report: Thirty copies three (3) months after commencement of the Technical assistance in Philippines containing the midterm results of the establishment of IRR and the entire results of the transfer of knowledge on development of the flood hazard map.
- (3) Draft Final Report: Thirty copies (30) five (5) months after commencement of the Technical assistance in Philippines containing all results of the technical assistance.
- (4) Final report: Thirty copies (30) six (6) months after commencement of the Technical assistance in Philippines containing all results of the technical assistance incorporating the comments on the Draft Final Report.

5. EXPERTISE REQUIRED

The JICA experts required to the Technical Assistance would include (a) the Leader/ the Structural Planner/Designer for On-site Flood Regulation Pond, (b) the Land Use Planner, and (c) the Hydrologist for development of the flood hazard map.

6. UNDERTAKING OF THE GOP

(1) The GOP shall take necessary measures to facilitate the smooth conduct of the Technical Assistance:

- To permit the members of the Team for Technical Assistance to enter, leave and sojourn in the Philippines for the duration of their assignments therein and exempt them from foreign registration requirements and consular fees,
- To exempt the members of the Team for Technical Assistance from income taxes and duties and any other charges on equipment, machinery and other materials brought into the Philippines for the implementation of the Technical assistance.
- To exempt the members of the Team for Technical Assistance from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the foreign team members for their services in connection with the implementation of their Technical Assistance,
- To provide the necessary facilities to the JICA team for the Technical Assistance for the remittance as well as utilization of the funds introduced into the Philippines in connection with the implementation of the Technical assistance.

(2) The GOP shall be responsible for dealing with claims, which may be brought by third parties against the members of the team for the Technical Assistant and shall hold them harmless in receipt of claims and liabilities arising in the course of, or otherwise connected with the discharge of their duties in the implementation of the Technical Assistance, except when such claims or liabilities arise from gross negligence willful misconduct of the above mentioned members.

(3) The Provincial Government of Cavite shall, at its own expense, provide the team for the Technical Assistance with the following, in cooperation with other organization concerned:

- Security-related information on as well as measures to ensure the safety of the team of the Technical assistance,
- Information on as well as support in obtaining medical services,
- Available data (including maps and photographs) and information related to the Technical Assistance,
- Counterpart personnel,

- Suitable office space with necessary equipment, and
- Credentials or identification cards.

7. UNDERTAKINGS OF THE JICA

For implementation of the Technical Assistance, JICA shall take the following measures:

- (1) To dispatch, at its own expense, the team for the Technical Assistance to the Philippines, and
- (2) To perform the scope works described in this TOR including technology transfer to the counterpart personnel in the course of the Technical Transfer.

