



**DEPARTMENT OF PUBLIC
WORKS AND HIGHWAYS
THE REPUBLIC OF THE
PHILIPPINES**



**Japan International
Cooperation
Agency**



**PROVINCIAL
GOVERNMENT
OF CAVITE**

**THE STUDY
ON
COMPREHENSIVE FLOOD MITIGATION
FOR CAVITE LOWLAND AREA
IN
THE REPUBLIC OF THE PHILIPPINES**

FINAL REPORT

Volume 4: Appendix

February 2009



CTI ENGINEERING INTERNATIONAL CO., LTD.

in association with



NIPPON KOEI CO., LTD

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(as of 30th September 2008)



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PREFACE

In response to a request from the Government of the Republic of the Philippines, the Government of Japan decided to conduct a development study on Comprehensive Flood Mitigation for Cavite Lowland Area and entrusted the Study to the Japan International Cooperation Agency (JICA).

JICA sent to the Philippines a study team headed by Mr. Makihiko Otagawa of CTI Engineering International Co., Ltd. in association with Nippon Koei Co., Ltd, between March 2007 and January 2009. In addition, JICA set up an Advisory Committee which examined the Study from specialist and technical point of view.

The Study Team held discussions with the officials concerned of the Government of the Philippines, and conducted field surveys at the study area. Upon returning to Japan, the Study Team conducted further studies and prepared this final report.

I hope that this report will contribute to the promotion of the project and promotion in the Philippines, and to the enhancement of friendly relationship between our two countries.

Finally, I wish to express my sincere appreciation to the officials concerned of the Government of the Philippines for their close cooperation extended to the Study Team.

February, 2009

Ariyuki MATSUMOTO

Vice-President

Japan International Cooperation Agency

The Study on Comprehensive Flood Mitigation for Cavite Lowland Area in the Republic of the Philippines

February 2009

MR. ARIYUKI MATSUMOTO
Vice-President
Japan International Cooperation Agency
Tokyo, Japan

Ref.: **The Study on Comprehensive Flood Mitigation for Cavite Lowland Area in the Republic of the Philippines**

Subj.: **Final Report - Letter of Transmittal**


Dear Sir:

We are pleased to submit herewith the Final Report on “The Study on Comprehensive Flood Mitigation for Cavite Lowland Area” for your kind consideration. This report compiles the results of the Study in accordance with the contract between CTI Engineering International Co., Ltd. in association with Nippon Koei Co., Ltd. and the Japan International Cooperation Agency (JICA) during the period of March 2007 to February 2009.

During the Study, the Study Team formulated the master plan and conducted the feasibility study on comprehensive flood mitigation composed of applicable structural and non-structural measures for the Cavite Lowland Area based on the analysis of existing/future conditions and problems in the area. The report consists of Volume I: Master Plan Study, Volume II: Feasibility Study, Volume III: Adaptation to Climate Changes, and Volume IV: Appendix. The summaries of the master plan and feasibility studies are included in Volume I and Volume II respectively.

On this occasion the Study Team would like to express its sincere appreciation to JICA, the Ministry of Foreign Affairs, and also to the officials concerned of the Government of the Republic of the Philippines, the Provincial Government of Cavite, and the Local Government Units (LGUs) concerned for the cooperation extended to the Team during the Study. We sincerely hope that the results of the Study will contribute to the solution and/or mitigation of flooding problems in the Cavite Lowland Area and that the amicable relationship between both our countries will further continue in the future.

Very truly yours,


MAKIHICO OTAGAWA

Team Leader
The Study on Comprehensive Flood
Mitigation for Cavite Lowland Area

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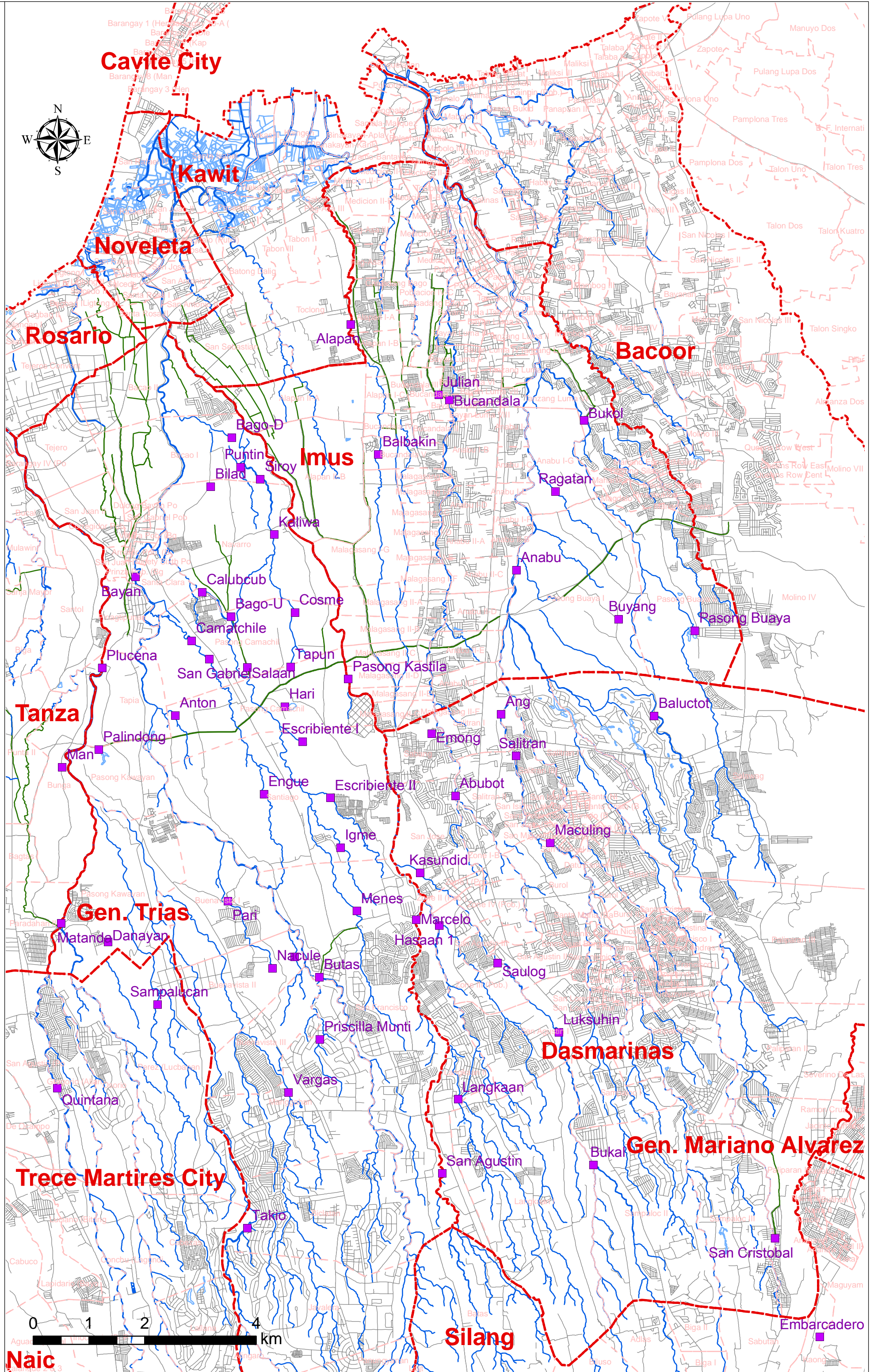
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Appendix

Appendix-1
Inventory of Existing Irrigation Dams

1. Location Map of Irrigation Dams



2. Inventory code No. of Irrigation Dam

List of Code No.

Table of Inventory Dam (1/2)

No.	Name of Dam	Location of Dam		
		Easting	Northing	Elevation
C1	Plucena Dam	270,665.94	1,589,075.45	21.42
C2	Palindong Dam	270,598.96	1,587,617.13	31.92
C3	Man Dam	269,935.61	1,587,279.28	34.50
C4	Matanda Dam	269,911.41	1,584,473.05	50.34
C5	Danayan Dam	270,706.94	1,584,104.13	57.57
C6	Sampalucan Dam	271,636.53	1,583,022.08	71.80
C7	Quintana Dam	269,846.34	1,581,514.02	79.59
C8	Vargas Dam	274,008.30	1,581,444.27	105.99
C9	Takio Dam	273,246.32	1,578,980.14	139.21
I1	Julian Dam	276,690.14	1,593,979.27	13.29
I2	Bucandala Dam	276,878.24	1,593,881.06	12.93
I3	Bukol Dam	279,282.38	1,593,523.99	19.74
I4	Ragatan Dam	278,782.86	1,592,226.99	23.45
I5	Anabu Dam	278,086.56	1,590,840.86	30.14
I6	Buyang Dam	279,910.06	1,589,940.14	53.30
I7	Pasong Buaya Dam	281,293.26	1,589,722.23	48.59
I8	Ang Dam	277,803.62	1,588,238.71	50.25
I9	Baluctot Dam	280,564.45	1,588,205.83	65.83
I10	Emong Dam	276,574.04	1,587,893.09	45.78
I11	Salitran Dam	278,103.70	1,587,476.15	56.44
I12	Abubot Dam	276,989.89	1,586,786.51	54.55
I13	Maculing Dam	278,699.14	1,585,924.68	75.88
I14	San Cristobal Dam	282,739.00	1,578,820.70	200.91
I15	Embarkadero Dam	283,536.81	1,577,039.73	229.41
S1	Alapan Dam	275,110.99	1,595,241.97	6.69
S2	Bago-D Dam	272,971.60	1,589,975.61	24.91
S3	Balbakin Dam	275,597.36	1,592,907.17	16.09
S4	Puntin Dam	273,132.76	1,592,664.90	12.80
S5	Siroy Dam	273,489.48	1,592,452.19	13.83
S6	Bilad Dam	272,591.90	1,592,326.18	14.13
S7	Kaliwa Dam	273,744.07	1,591,466.21	18.46
S8	Bayan Dam	271,232.36	1,590,686.87	17.67
S9	Calubcub Dam	272,452.90	1,590,423.49	22.14
S10	Cosme Dam	274,080.89	1,590,048.59	25.11
S11	Bago-U Dam	272,962.52	1,593,217.20	10.15
S12	Camatchile Dam	272,246.94	1,589,551.68	25.31
S13	San Gabriel Dam	272,578.37	1,589,222.62	28.00
S14	Salaan Dam	273,256.09	1,589,078.28	30.81
S15	Tapun Dam	273,961.48	1,589,107.31	34.07
S16	Pasong Kastila Dam	275,056.97	1,588,861.00	36.35
S17	Hari Dam	272,153.88	1,589,504.98	25.39
S18	Anton Dam	271,963.01	1,588,228.31	32.44
S19	Escribiente I Dam	274,251.06	1,587,722.49	41.34
S20	Engue Dam	273,557.60	1,586,804.94	46.00
S21	Escribiente II Dam	274,743.64	1,586,731.98	52.24
S22	Igme Dam	274,917.41	1,585,824.87	58.32
S23	Kasundid Dam	276,357.48	1,585,398.43	71.82

List of Code No.

Table of Inventory Dam (2/2)

No.	Name of Dam	Location of Dam		
		Easting	Northing	Elevation
S25	Menes Dam	275,234.65	1,584,691.36	73.13
S26	Marcelo Dam	276,262.17	1,584,541.72	78.46
S27	Hasaan Dam	276,710.04	1,584,442.12	78.04
S28	Kambing Dam	274,085.67	1,583,883.92	74.99
S29	Nacule Dam	273,706.09	1,583,673.29	77.08
S30	Saulog Dam	277,764.91	1,583,787.07	88.11
S31	Butas Dam	274,537.11	1,583,520.59	78.99
S32	Pricilla Munti dAm	274,552.88	1,582,392.15	90.19
S33	Luksuhin Dam	278,843.98	1,582,523.28	111.95
S34	Langkaan Dam	277,040.99	1,581,313.95	118.46
S35	Bukal Dam	279,460.44	1,580,133.31	137.59
S36	San Agustin Dam	276,764.52	1,579,978.92	137.07

3. INVENTORY BOOK OF DAM (C1/60)

Name of Dam	Plucena Dam (No.C1)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Tapia, General Trias		
River/Distance from Rivermouth	Canas River 7.53 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	9.70 m		
Width of Dam	27.50 m		
Width of Spillway	27.50 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / <u>Periodical</u>	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<i>Administration</i>					
Name of Estate	San Francisco De Malabon Estate				
<i>Site</i>					
Dam					
Leakage	None				
Scouring of Footing	1m at left side (5m long)				
Cracking	None				
Stripping of Surface	Major part of the surface				
Others					
Side Ground					
Leakage	None				
Scouring of Footing	most of the right side				
Cracking	Crack on revetment at right side				
Collapse of Slope	Due to collapse of revetment				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C2/60)

Name of Dam	Palindong Dam (No.C2)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Pasong Kawayan, General Trias		
River/Distance from Rivermouth	Canas River 9.35 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	2.80 m		
Width of Dam	50.08 m		
Width of Spillway	8.42 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

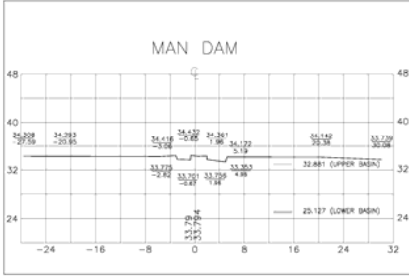

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / <u>Periodical</u>	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	San Francisco De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	<u>Low</u> / Medium / High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C3/60)

Name of Dam	Man Dam (No.C3)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Bunga, Tanza		
River/Distance from Rivermouth	Canas River 9.91 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	8.20 m		
Width of Dam	57.70 m		
Width of Spillway	3 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

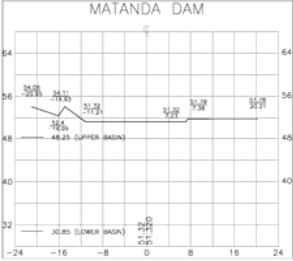
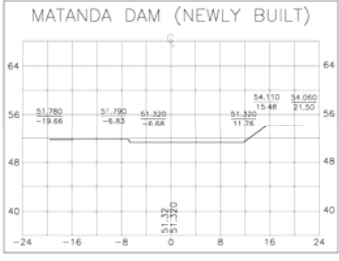

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / <u>Periodical</u>	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Sta. Cruz De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	<u>Low</u> / Medium / High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C4/60)

Name of Dam	Matanda Dam (No.C4)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Paradaham II, Tanza		
River/Distance from Rivermouth	Canas River 13.08 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	20.50 m		
Width of Dam	41.10 m		
Width of Spillway	18.44 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

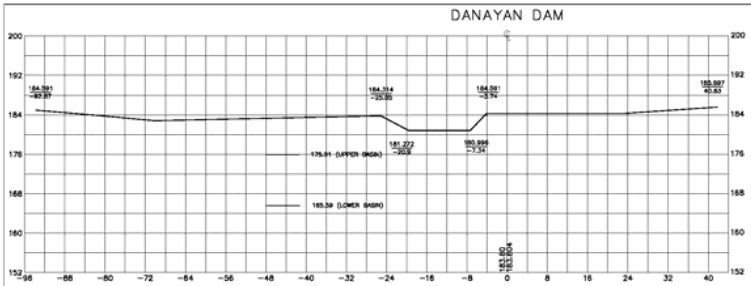
INSPECTION RECORD

General	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / <u>Periodical</u>	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Sta. Cruz De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	at right side				
Cracking	None				
Stripping of Surface	Mostly at the right side of the surface				
Others	Broken right side footing				
Side Ground					
Leakage	None				
Scouring of Footing	Partial right side				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in Dam Break	Low / Medium / <u>High</u>				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

General	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C5/60)

Name of Dam	Danayan Dam (No.C5)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Pasong Kawayan, General Trias	 <p style="text-align: center; font-size: small;">DANAYAN DAM</p> <p style="text-align: center; font-size: x-small;">184.991 -87.99 184.714 -75.80 184.991 -79 185.997 -67.93 178.41 (UPPER SHOULDER) 181.277 180.991 -77.94 185.39 (LOWER SHOULDER)</p>	
River/Distance from Rivermouth	Tributary of Canas River 13.91 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	15.40 m		
Width of Dam	13.60 m		
Width of Spillway	13.60 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

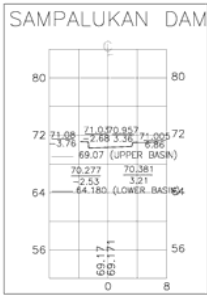
INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	San Francisco De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / Medium / High				
Necessity of Repair	Low / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C6/60)

Name of Dam	Sampalukan Dam (No.C6)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Perez, Trece Martires City		
River/Distance from Rivermouth	Tributary of Canas River 14.44 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	6.10 m		
Width of Dam	10.60 m		
Width of Spillway	5.74 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

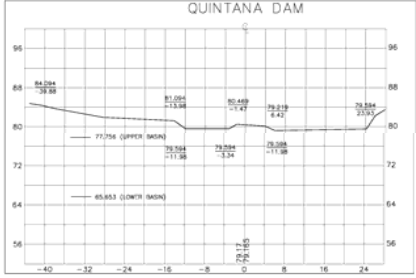

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / <u>Periodical</u>	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate					
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C7/60)

Name of Dam	Quintana Dam (No.C7)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	San Agustin, Trece Martires City		
River/Distance from Rivermouth	Canas River 16.57 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	13.90 m		
Width of Dam	35.90 m		
Width of Spillway	26.10 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

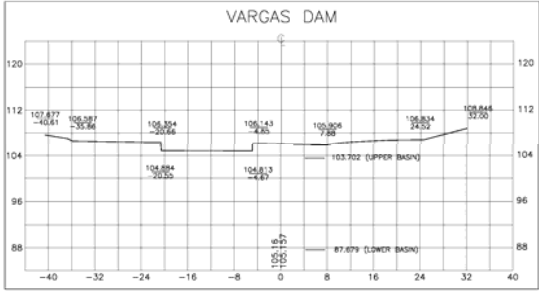

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate					
Site					
Dam					
Leakage	None				
Scouring of Footing	On the left side				
Cracking	None				
Stripping of Surface	Left part of the surface				
Others	Broken left side footing				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	Scouring on revetment at both side				
Sliding of Slope	Due to collapse of revetment				
Basin Risk in DamBreak	Low / Medium / <u>High</u>				
Necessity of Repair	Low / Medium / <u>High</u>				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C8/60)

Name of Dam	Vargas Dam (No.C8)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Manggahan, General Trias		
River/Distance from Rivermouth	Tributary of Canas River 16.91 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	17.10 m		
Width of Dam	43.70 m		
Width of Spillway	15.90 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

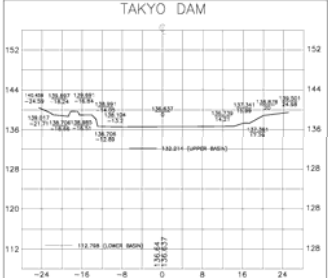


INSPECTION RECORD

General	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	San Francisco De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	small part of the surface				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	on the left side				
Cracking	None				
Collapse of Slope	Due to scouring				
Sliding of Slope	Due to no revetment				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair	about 1 million peso				
Signature					

REPAIRMENT RECORD

General	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (C9/60)

Name of Dam	Takio Dam (No.C9)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Bidatan, General Trias		
River/Distance from Rivermouth	Tributary of Canas River 18.75 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	23.90 m		
Width of Dam	27.10 m		
Width of Spillway	27.10 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

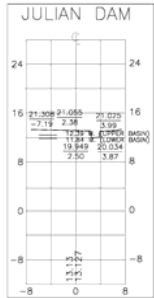

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	San Francisco De Malabon Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	on both sides				
Cracking	None				
Stripping of Surface	Most of the surface				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	on both sides				
Cracking	None				
Collapse of Slope	due to scouring				
Sliding of Slope	No revetment				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair	about 1 million peso				
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I1/60)

Name of Dam	Julian Dam (No.11)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Bayan Luma VI, Imus		
River/Distance from Rivermouth	Tributary of Julian River 4.85 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	8.10 m		
Width of Dam	14.40 m		
Width of Spillway	1.40 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

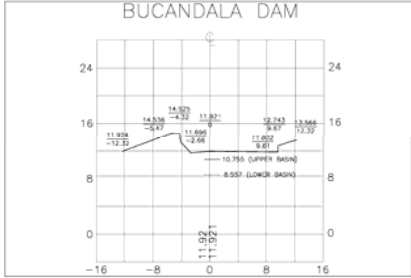


INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<i>Administration</i>					
Name of Estate	Imus Estate				
<i>Site</i>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	On both side of the surface				
Stripping of Surface	Minimal portion				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair	about 1 million peso				
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (12/60)

Name of Dam	Bucandala Dam (No.12)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)	
Location of Dam	Bayan Luma IX, Imus			
River/Distance from Rivermouth	Julian River 4.67 K			
Type of Dam	Gravity (Concrete Surfacing)			
Dimension	see below			
Height of Dam	3.10 m			
Width of Dam	12.30 m			
Width of Spillway	12.30 m			
Height of Spillway	0m(same as crest)			
Spillway Gate	None			
Intake Gate	None			

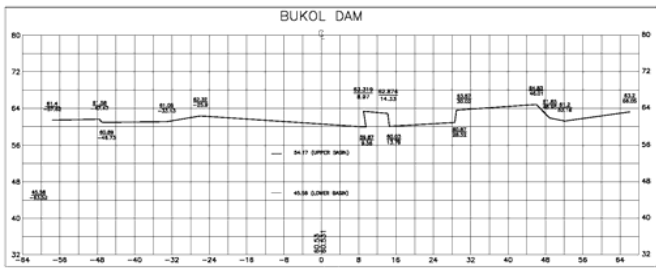

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair	about 1 million peso				
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (13/60)

Name of Dam	Bukol Dam (No.13)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Tanzang Luma VI, Imus		
River/Distance from Rivermouth	Tributary of Imus River 8.80 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	14.30 m		
Width of Dam	67.20 m		
Width of Spillway	m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

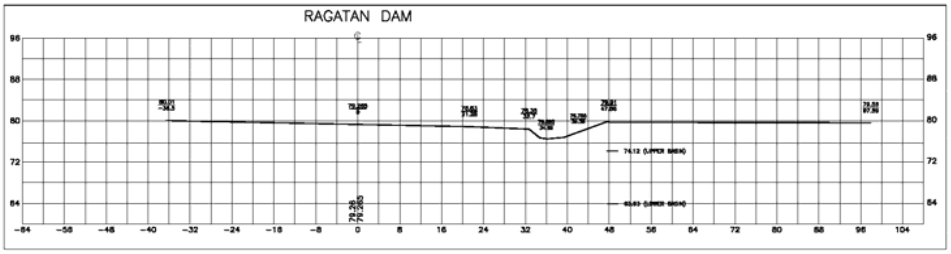
INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair	about 1 million peso				
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (14/60)

Name of Dam	Ragatan Dam (No.14)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Anabu I-G, Imus		
River/Distance from Rivermouth	Tributary of Imus River 10.26 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	13 m		
Width of Dam	134.10 m		
Width of Spillway	5 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		



INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (15/60)

Name of Dam	Anabu Dam (No.15)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Pasong Buaya I, Imus		
River/Distance from Rivermouth	Imus River 12.12 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	2.48 m		
Width of Dam	38.55 m		
Width of Spillway	1.80 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

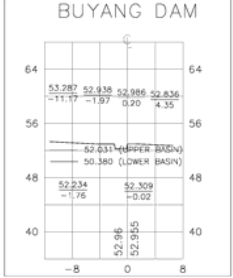

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<i>Administration</i>					
Name of Estate	Imus Estate				
<i>Site</i>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / Medium / <u>High</u>				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (16/60)

Name of Dam	Buyang Dam (No.16)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Pasong Buaya I, Imus		
River/Distance from Rivermouth	Tributary of Imus River 12.33 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	1.85 m		
Width of Dam	17.67 m		
Width of Spillway	1.74 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

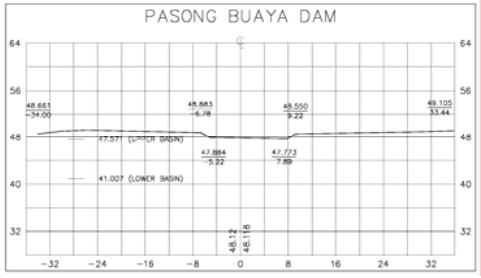

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<i>Administration</i>					
Name of Estate	Imus Estate				
<i>Site</i>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (17/60)

Name of Dam	Pasong Buaya Dam (No.17)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Pasong Buaya II, Imus		
River/Distance from Rivermouth	Tributary of Imus River 13.07 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	6.77 m		
Width of Dam	13.11 m		
Width of Spillway	13.11 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

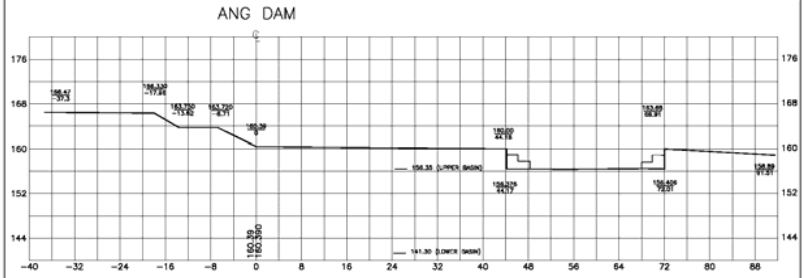
INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	Isolated part of the surface				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (18/60)

Name of Dam	Ang Dam (No.18)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Salitran I, Dasmariñas		
River/Distance from Rivermouth	Imus River 14.95 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	15.08 m		
Width of Dam	91.51 m		
Width of Spillway	27.84 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		



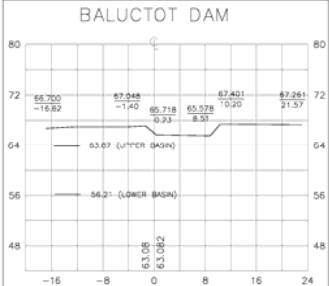

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<i>Administration</i>					
Name of Estate	Imus Estate				
<i>Site</i>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	Minimal portion				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	on the left side				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / Medium / <u>High</u>				
Necessity of Repair	Low / <u>Medium</u> / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I9/60)

Name of Dam	Baluctot Dam (No.I9)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Salawag, Dasmariñas		
River/Distance from Rivermouth	Tributary of Imus River 16.19 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	9.37 m		
Width of Dam	38.19 m		
Width of Spillway	8.28 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

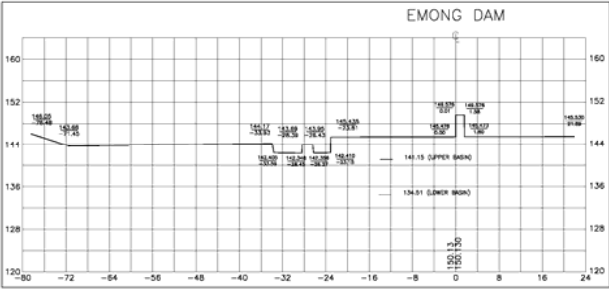

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	Minimal portion of the surface				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low / <u>Medium</u> / High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I10/60)

Name of Dam	Emong Dam (No.I10)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Sabang, Dasmariñas		
River/Distance from Rivermouth	Tributary of Julian River 11.68 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	7.84 m		
Width of Dam	71.45 m		
Width of Spillway	8.26 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

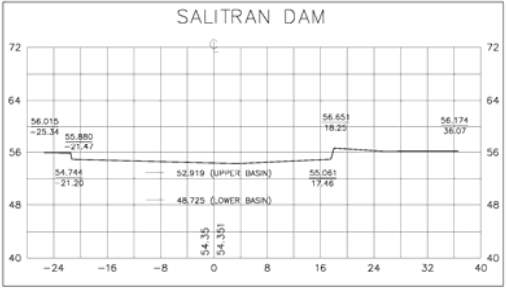
INSPECTION RECORD

<u>General</u>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<u>Administration</u>					
Name of Estate	Imus Estate				
<u>Site</u>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<u>General</u>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I11/60)

Name of Dam	Salitran Dam (No.I11)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Salitran III, Dasmariñas	 <p style="text-align: center;">SALITRAN DAM</p> <p>The diagram shows a cross-section of the dam with a crest at elevation 56.015. The left abutment is at elevation 54.744 and the right abutment is at 56.174. The dam has a width of 38.66 m. The upper basin is at elevation 52.919 and the lower basin is at 48.725. The spillway gate is at elevation 55.081. The dam is located at Salitran III, Dasmariñas, with a distance of 15.85 K from the river mouth. The dam is a gravity dam with concrete surfacing. The drawing was made in May 2007.</p>	
River/Distance from Rivermouth	Imus River 15.85 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	5.63 m		
Width of Dam	38.66 m		
Width of Spillway	38.66 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

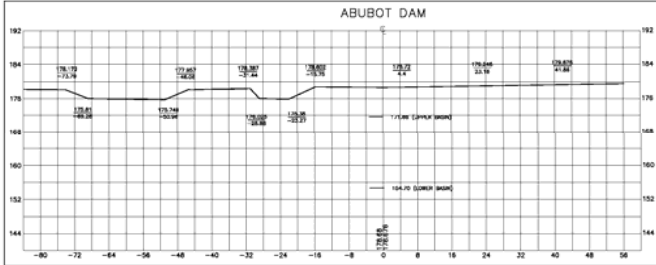

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage					
Scouring of Footing					
Cracking					
Stripping of Surface					
Others					
Side Ground					
Leakage					
Scouring of Footing					
Cracking					
Collapse of Slope					
Sliding of Slope					
Basin Risk in DamBreak	Low / Medium / High				
Necessity of Repair	Low / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I12/60)

Name of Dam	Abubot Dam (No.I12)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Salitran II, Dasmarias		
River/Distance from Rivermouth	Julian River 12.83 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	20.68 m		
Width of Dam	58 m		
Width of Spillway	18.29 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

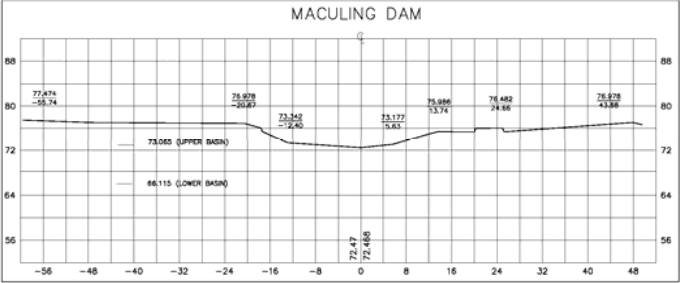
INSPECTION RECORD

<u>General</u>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
<u>Administration</u>					
Name of Estate	Imus Estate				
<u>Site</u>					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	Low <u>Medium</u> High				
Necessity of Repair	<u>Low</u> / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<u>General</u>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I13/60)

Name of Dam	Maculing Dam (No.I13)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	San Miguel, Dasmariñas	 <p style="text-align: center; font-size: small;">MACULING DAM</p>	
River/Distance from Rivermouth	Imus River 17.86 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	6.35 m		
Width of Dam	18.03 m		
Width of Spillway	18.03 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

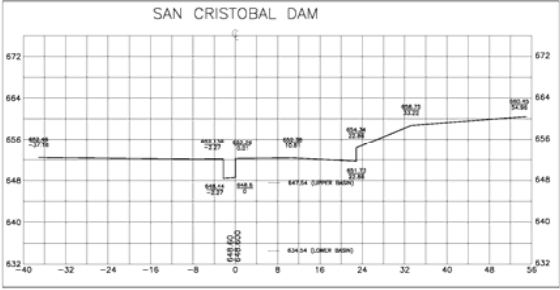

INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage					
Scouring of Footing					
Cracking					
Stripping of Surface					
Others					
Side Ground					
Leakage					
Scouring of Footing					
Cracking					
Collapse of Slope					
Sliding of Slope					
Basin Risk in DamBreak	Low / Medium / High				
Necessity of Repair	Low / Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I14/60)

Name of Dam	San Cristobal Dam (No.I14)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)
Location of Dam	Paliparan I, Dasmariñas		
River/Distance from Rivermouth	Tributary of Imus River 25.18 K		
Type of Dam	Gravity (Concrete Surfacing)		
Dimension	see below		
Height of Dam	13.90 m		
Width of Dam	60.02 m		
Width of Spillway	2.27 m		
Height of Spillway	0m(same as crest)		
Spillway Gate	None		
Intake Gate	None		

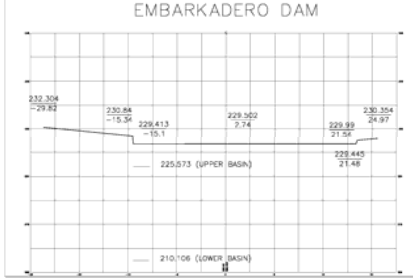


INSPECTION RECORD

	1	2	3	4	5
General					
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Stripping of Surface	None				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

	1	2	3	4	5
General					
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					

INVENTORY BOOK OF DAM (I15/60)

Name of Dam	Embarkadero Dam (No.I15)	Drawing(Elevation): Year of Survey : May 2007	Photo (taken on May 22 2007)	
Location of Dam	Kaong, Silang			
River/Distance from Rivermouth	Tributary of Imus River 27.12 K			
Type of Dam	Gravity (Concrete Surfacing)			
Dimension	see below			
Height of Dam	19.31 m			
Width of Dam	36.58 m			
Width of Spillway	36.58 m			
Height of Spillway	0m(same as crest)			
Spillway Gate	None			
Intake Gate	None			

INSPECTION RECORD

<i>General</i>	1	2	3	4	5
Date of Inspection					
Status of Inspection	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical	After Flood*Earthquake / Periodical
Name of Inspector	SUZUKI, Kazuto (JICA Study Team)				
Administration					
Name of Estate	Imus Estate				
Site					
Dam					
Leakage	None				
Scouring of Footing	None				
Cracking	On the center of the surface				
Stripping of Surface	On the center of the surface				
Others	None				
Side Ground					
Leakage	None				
Scouring of Footing	None				
Cracking	None				
Collapse of Slope	None				
Sliding of Slope	None				
Basin Risk in DamBreak	(Low) Medium / High				
Necessity of Repair	(Low) Medium / High				
Assumed Cost of Repair					
Signature					

REPAIRMENT RECORD

<i>General</i>	1	2	3	4	5
Year of Repair					
Description of Repair					
Budget					
Fund/Source					
Contractor					
Place of					
Contract Document					
Remarks					
Marker					