

資料1 現地調査に先き立ち関係団体に事前送付した質問状等

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上記の質問・データ提供要請状は当調査団が現地に入る前に、現地の本件関連団体に関するこれまでの情報を基にして作成したものである。現地で始めて、“BWCA本部”が現在存在せず、また、PASAR上水供給側の1つの組織としてLMCが設立されていることが判明した。そこで、対BWCA本部質問・データ提供要請状をMerida及びIsabel Water Districtに提出すると共に、この内の質問・データ提供要請の一部を対各BWCA質問・データ提供要請に追加するという方法で利用した。

上記(5)に関しては面接調査をする時間的余裕がなかった。

(1) To PASAR.

1. Ownership of Facilities concerning the Water Supply

1.1 Ownership of the Facilities

The Study Team supposes the following present situation of the Ownership, based on information acquired by the Study Team. Please revise and modify the supposed situation, if necessary.

Ownership of the following facilities by:

PASAR	- Intake facility of the Industrial Water and Water supply - Main Transmission facility of the Water - Distribution facility of the Water Supply including Public Faucets
Barangay Water Consumers' Association (BWCA)	- Nothing
Household	- Facility of House Connection

1.2 Question

- Has any ownership been transferred from PASAR to BWCA or individual Household since 1986?

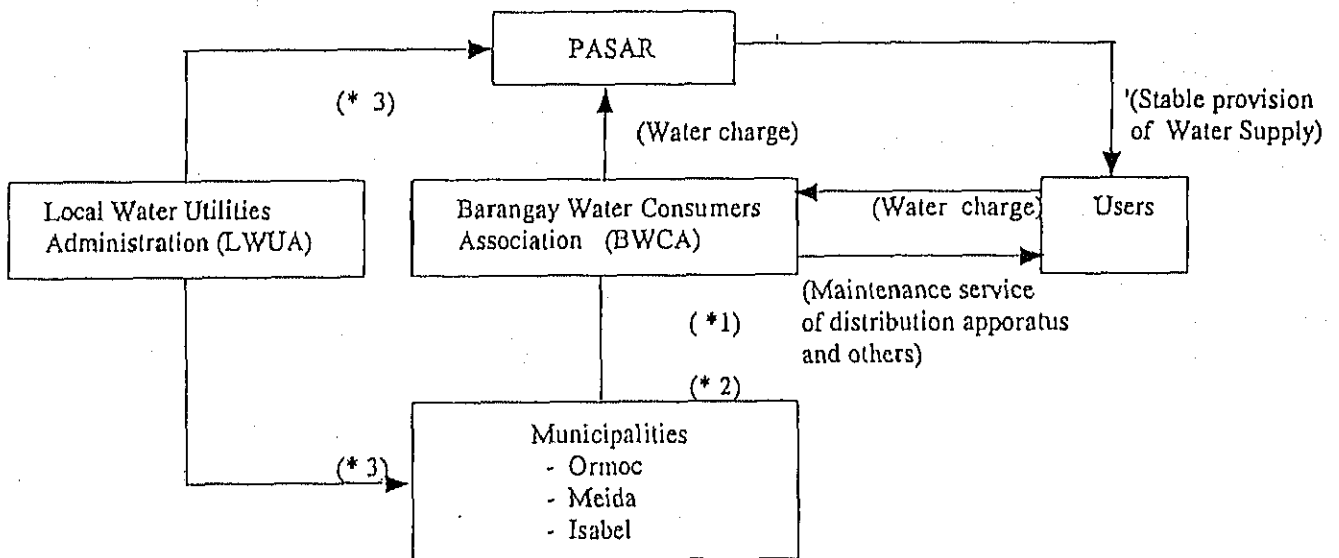
Please clarify facilities whose ownership has been transferred and conditions of transference of the ownership, if any.

- Does scope of your works for Maintenance of Facility correspond to the situation of the Ownership (after your modification)?

2. Functions and Responsibility of Organizations relating to the Water Supply provided through the PASAR System

2.1 Functions and Responsibilities of the organizations

The Study Team supposes the following functions and responsibilities of the concerned Organizations. Please revise and modify the following figure, if necessary.



Note *1: Supervision of activities of the Association

*2: Financial assistance to the association

*3: Supervision of activities from viewpoint of Water Supply Administration.

2.2 Question:

- With which Organization do you negotiate for issues such as
Change in the Scope of Maintenance Work,
Change in the Water Rate, and
Permission for new users?

- Which Organization except PASAR has authority to decide regarding above mentioned issues?

- Are there Public Administration codes on Water Supply which have to be obeyed? Please, point out the codes or provide us a document which refers to the codes.

3. Organization and Number of Staffs in PASAR which are in charge of provision of Industrial Water and Water Supply

Please provide us the Organization chart and Number of the Staffs in 1996.

4. Balance of Water Volume

Please fill the following table.

(Unit: 1000 Tons/year)

	1987	1995
a. Intake volume		
b. Volume distributed as Industrial Water as Water Supply to 26 Barangays to others		
a-b Discrepancy		

5. Production and Distribution Cost and Selling Price of the Water Supply

5.1 Production and Distribution Cost and Selling Price

Please fill the following table.

(Unit: Pesos/m³)

	1987	1995
Production and Distribution Cost of the Water Supply *1		
Selling price of the Water Supply *2		

Note *1: Production and Distribution Cost which is estimated based on various items of cost relating to the production and distribution of the Water Supply, the cost is incurred to PASAR.

Note *2: Selling price of the Water Supply from PASAR to Barangay Water Consumers Association (BWCA).

5.2 Question

What kinds of cost items are taken into account in the calculation of the Production and Distribution Cost? Please list the cost items.

6. Factors taken into consideration in deciding the Selling Price of the Water Supply
The Study Team supposes the following factors which are taken into consideration in deciding the Selling Price. Please, revise and modify the supposed factors, if necessary and put priorities among the factors.

<u>Factors taken into consideration</u>	<u>Priority</u>
1. Payment capability of the users for the Water charge	
2. Contribution to upgrading Social Welfare in the Region (Enterprise's Responsibility to Society)	
3. Production and Distribution costs of the Water Supply	
4. Production and Distribution Cost of Industrial Water	
5. Past example of Water Supply Rate	
6. Public Administration code of Water Supply	
7. Others (Please, enter if any)	

7. Water Supply Account

7.1 Question:

Was balance of the Water Supply Account of PASAR surplus or deficit in 1995?

7.2 Countermeasure against the deficit

The Study Team supposes the following countermeasures against the deficit.

Please select relevant ones which are actually applied among the supposed ones, or show us the applied countermeasures which are different from the supposed ones.

- (1) Compensation by PASAR itself
- (2) Public subsidy
- (3) Raise of the Water Supply Rate (in future)

8. Impact of the PASAR Industrial Water and Water Supply System on the Natural Environment
Question:
- Has an unfavorable impact on the natural environment such as subsidence of ground in the water resource area been observed ?
 - Which Sewerage System does PASAR adopt now for treatment of the used industrial water and sewage?
 - * Simple Treatment System, or
 - * Modern Treatment System.
 - Has an unfavorable impact on the natural environment caused by disposal of the treated used water been observed or pointed out by residents/public authority, e.g. contamination of the sea?

9. Request on Information and Data

Please provide us

- (1) Brochure or Annual Report of PASAR in most recent year
- (2) Minimum wage in 1996

(Unit: Peso/month)

Paid by PASAR : _____
Regulated minimum wage: _____

Please fill the followings:

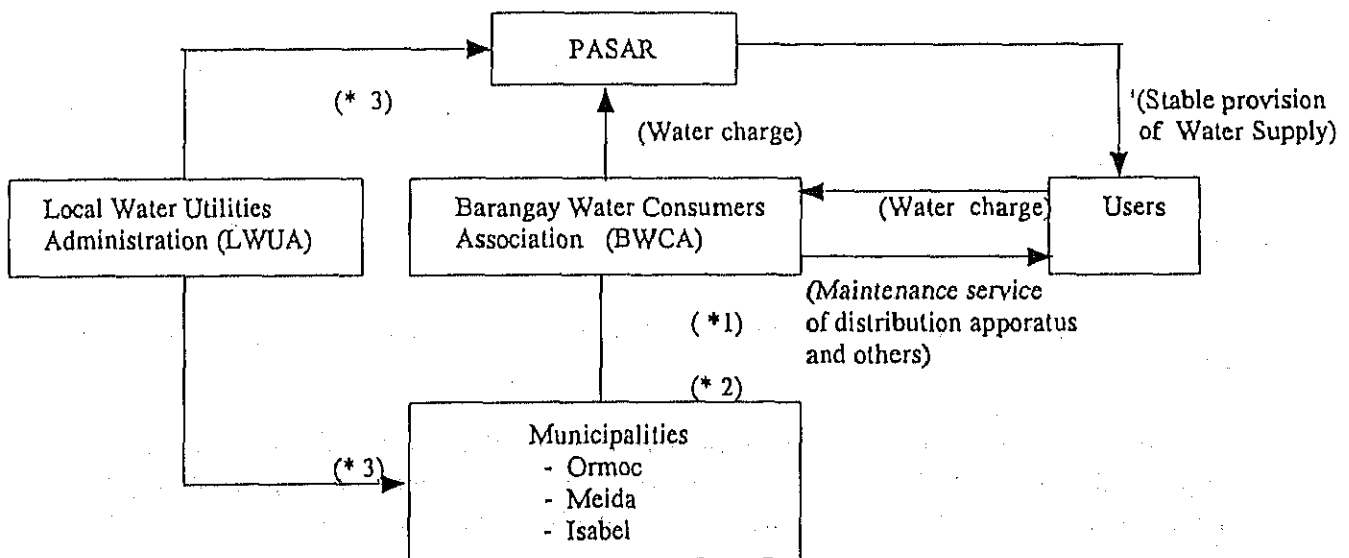
Name of the answerer : _____
Position of the answerer : _____
Date of answer : _____

The Study Team would like to express its gratitudes for your kind cooperation.

(2) To BWCA

1. Functions and Responsibilities of Organizations concerning the Water Supply provided through the PASAR System.

The Study Team supposes the following functions and responsibilities of the concerned organizations, based on information acquired by the Study Team. Please revise and modify the following figure if necessary.



Note *1: Supervision of activities of the Association

*2: Financial assistance to the Association.

*3: Supervision of activities from viewpoint of Water Supply Administration.

2. Ownership of Facilities concerning the Water Supply

2.1 Ownership of the Facilities

The Study Team supposes the following present situation of the ownership, based on information acquired. Please revise and modify the supposed situation, if necessary.

Ownership of the following facilities by :

PASAR

- Intake facility of the Industrial Water and Water Supply
- Main Transmission facility of the Water
- Distribution facility of Water Supply including Public Faucets

Barangay Water
Consumers' Association - Nothing
(BWCA)

Household - Facility of House Connection

2.2 Question:

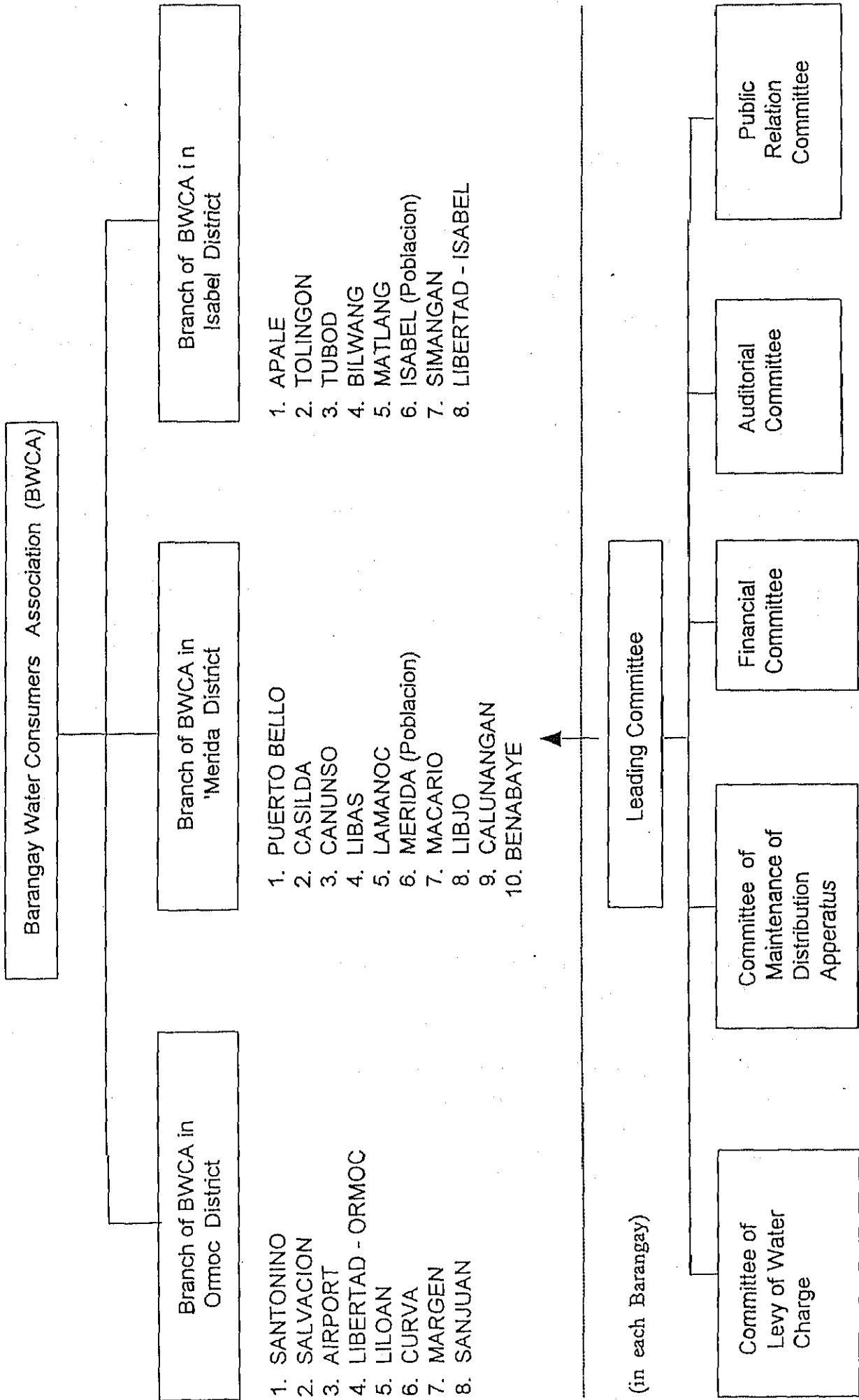
- Has any ownership been transferred from PASAR to BWCA or individual household since 1986? Please clarify facilities whose ownership has been transferred and conditions of transference of the ownership, if any.

3. Organization, Authority and Responsibility of Barangay Water Consumers' Association (BWCA)

The Study Team supposes the present situations of the organization, authority and responsibility of BWCA as follows. Please revise and modify the supposed present situation, if necessary or provide a document explaining the present situation.

3.1 Organization and Number of Staffs of BWCA.

Please fill the following table.



Number of Staffs of BWCA.

	1987	1996
BWCA Head Quarter		
Branch Head Quarter (Total of the 3 branches)		
Leading Committee (Total of 26 Barangays)		
Five (5) Committees (Total of 26 Barangays)		
Total		

3.2 Responsibility of BWCA

The Study Team supposes that BWCA has the following responsibilities against the users. Please revise and modify the supposed ones, if necessary.

- (1) Levy of water charge from the users
- (2) Maintenance of distribution apparatus (Public faucets and House connections)
- (3) Public Relations (PR) with the users on topics of the water supply usage

3.3 Authority of BWCA

The Study Team supposes that BWCA has the following authorities. Please revise and modify the supposed ones, if necessary.

- (1) Authority of Nomination of the staffs of BWCA
- (2) Authority concerning the Water Rate System and Water Rate
- (3) Authority of Levy of water charge from the users
- (4) Authority of Usage of the levied Water Charge
- (5) Authority of solving daily issues on the water usage encountered by the users
- (6) Authority of Decision of Admittance of new users

4. *Usage of the Water Supply*

4.1 *Used Volume and Number of Households which use the Water Supply*

Please fill the following table or provide us relevant statistics based on which the Study Team completes the table.

	Used Volume of the Water Supply (tons/year)		Number of Household which use the Water			
			1987		1995	
	1987	1995	House Connection	Public faucets	House connection	Public faucets
1. SANTONINO						
2. SALVACION						
3. AIRPORT						
4. LIBERTAD-ORMOC						
5. LILOAN						
6. CURVA						
7. MARGEN						
8. SANJUAN						
(sub total) Ormoc Dist						
9. PUERTO BELLO						
10. CASILDA						
11. CANUNSO						
12. LIBAS						
13. LAMANOC						
14. MERIDA						
15. MACARIO						
16. LIBJO						
17. CALUNANGAU						
18. BENABAYE						
(sub total) Merida Dist.						
19. APALE						
20. TOLINGON						
21. TUBOD						
22. BILWANG						
23. MATLANG						
24. ISABEL						
25. SINANGAN						
26. LIBERTAD-ISABEL						
(sub total) Isabel Dist.						
Grand Total						

4.2 Question:

- Is the used volumes by House connection and Public faucets measured?
If not measured, please enter the causes.

- Are there cases of leakage of water and usage of the water by non-members?

5. Water Rate System.

5.1 Objectives of the Water charge

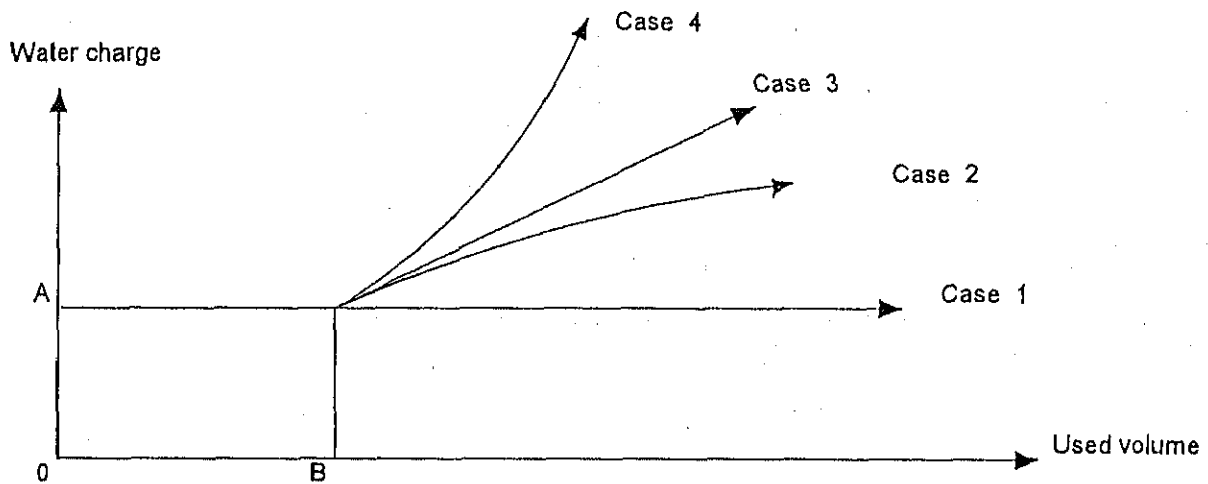
The Study Team supposes that the Water Charge is levied in order to burden the following costs. Please revise and modify the supposed costs, if necessary.

- (1) Cost of the supplied water (transferred to PASAR)
- (2) Maintenance cost of the distribution apparatus
- (3) Cost for examination of qualify of the water
- (4) Cost for BWCA's activities (staff allowance, etc.)

5.2 Water Rate System and Unit Water Rate

(1) Water Rate System

The Study Team supposes the following cases of Water Rate System in case of House connection. Please select relevant case which is now applied among the cases shown below or show us the applied case which is different from the figure shown below.



In case of House Connection

(2) Question :

- In case of Public faucets, is the Water Rate System same as the one in case of House connection? Please, show us the Water Rate System when the System is different from the one in case of House connection.

- In case of Public Faucets, how is the total Water Charge imposed to the Public Faucet concerned allocated to individual households which use the Public Faucet?

5.3 Unit Water Rate

Please fill the following table.

	House connection		Public Faucet	
	1987	1996	1987	1996
Minimum charge (corresponding to point A in the above figure) (Peso/Month/Household)				
Volume at point B (Tons/Month/Household)				
Marginal charge after point B (Peso/Ton)				

5.4 Factors taken into consideration in deciding the Water Rate System and Water Rate

The Study Team supposes the following factors which are taken into consideration in deciding the past and present Water Rate System and Water Rate.

Please revise and modify the supposed factors, if necessary and put priorities among the factors.

<u>Factors taken into consideration</u>	<u>Priority</u>
(1) Payment capability of the Water Charge of the individual household.	
(2) Cost of the Supplied Water (Transferred to PASAR)	
(3) Expenditure of BWCA (see 5.1)	
(4) Past examples of the System and Rate	

(5) Public administration code of Water Supply

(6) Others (Please enter if any)

5.5 Question

- In average, what percentage of the household income is spent for water charge?
- Do you think that the present Water Charge becomes relatively heavy financial burden to the users compared with their Household Income?
- Do you think that the present Water Rate System and Water Rate is relevant? Please clarify points which are better to be modified in future, if any.

6. Financial Balance

The Study Team supposes the following type of Financial Balance Sheet of BWCA. Please revise and modify the supposed type, if necessary and then fill the table.

(Unit: Peso/year)

	1987	1995
a. Revenue		
- Total Water Charge levied from the Users		
- Subsidy from Public Treasury		
b. Expenditure		
- Cost of supplied water transferred to PASAR		
- Maintenance cost of the Distribution Apparatus		
- Allowance of the staffs of BWCA		
- Other costs of BWCA		
- Financial cost imposed on borrowed fund		
- Others		
a-b Surplus or Deficit.		

7. Public Administration on Water Supply

Question:

- Are there Public Administration codes which have to be obeyed?

Please point out the codes or provide us a document which refers to the codes.

Please fill the followings:

Name of the answerer :

Position of the answerer :

Date of answer :

The Study Team would like to express its gratitudes for your kind cooperation.

(3) To BARANGAY COMMITTEE

1. Population, Number of Household and Household Income
Please fill the following table.

	1986	1995
Whole Population of the Barangay		
Whole Number of Household in the Barangay		
Average Household Income (Pesos/Month/Household)		
Number of Households which use the PASAR Water Supply System		
House connection		
Public faucets		

2. Reasons of Using the Pre-PASAR Water Supply System
2.1 Reasons of Using the Pre-System

- Before installation of the PASAR Water Supply System, residents of Barangays had acquired their drinking water from fountains and wells. The Study Team calls this system as "Pre-PASAR Water Supply System" hereinafter.

The Study Team supposes that some of households in the Barangays concerned use now the Pre-System, due to the following reasons. Please revise and modify the supposed reasons, if necessary. Then put order in magnitude of the reasons (in ascending order) from representative standpoint of your Barangay i.e. please suppose opinions/situations of majority in your Barangay on the issues entered hereinafter in this questionnaire and answer the issues.

Reasons of Using the Pre-PASAR
Water Supply System

Order of magnitude
of the Reasons

(1) Drinking water with satisfactory volume can be easily acquired and there is not any problem in quality of the Drinking Water

(2) Present water charge of the PASAR System is relatively expensive

(3) Others (please, enter if any)

2.2 Question:

Would the residents in your Barangay convert from the Pre-System to the existing PASAR Water Supply System when their household incomes increase in future?

3. Change in Usage of the Water Supply

3.1 Change in Usage of the Water Supply

The Study Team supposes the following changes which have been observed after the usage of Water Supply provided through the PASAR Water Supply System, compared with situation before installation of the PASAR System. Please, revise and modify the supposed ones, if necessary and then put order in magnitude of the changes from representative standpoint of your Barangay.

<u>Changes in Usage of the Water Supply</u>	<u>Order in magnitude of the Changes</u>
(1) Increase in volume used in the kitchen	
(2) Increase in volume used in toilet	
(3) Increase in volume used for washing	
(4) Increase in volume used for bath/shower	
(5) Increase in volume used for fire fighting	
(6) Others (please, enter if any)	

3.2 Questions:

- Has an average volume of the Water Supply of household increased after installation of the PASAR Water Supply System?

- By how many percents do you think the average volume has increased compared with the situation before the installation?

4. Effects of using the PASAR Water Supply System

4.1 Effects of Using the PASAR System

The Study Team supposes the following favorable direct effects of using the PASAR System compared with the situation of the Pre-PASAR Water Supply System. Please revise and modify the supposed effects, if necessary, and then put order in magnitude of the effects from representative standpoint of your Barangay.

Effects of Using the
PASAR System

Order in magnitude of
the Effects

- (1) The users can use the Water Supply as much as they need for all seasons
- (2) The users can use sanitary Water Supply
- (3) The users can save time for getting the Water Supply
- (4) Others (please, enter if any)

4.2 As for Effect on infectious Diseases of Digestive Organs such as Gastroenteritis, Diarrhea and Dysentery

Questions:

- Do you think that the Infectious Diseases have relatively decreased in your Barangay after using the PASAR System?
- (In case of the relative decrease) By how many percent do you estimate the Diseases have decreased, compared with the situation of the Pre-PASAR System?
- (In case of the relative non-decrease) Why have the Diseases not decreased?

4.3 As for Usage of the Saved Time

Question:

- In which area do the users use the time saved by usage of the PASAR Water Supply System?

(Please, select one of the two)

- * leisure
- * job

- For which reason do the users use the saved time to the leisure?

(Please, select one of the two)

- * It is difficult to find job (involuntary selection)
- * Voluntarily

- In which area do the users find their job?

(Please, select two at the most out of the followings)

- * Housekeeping
- * As worker mainly in service industry
- * As self-employed mainly in fishery and agriculture industries
- * Others (please, enter if any)

5. Synthetic Evaluation on the PASAR Water Supply System

Question:

- Around how many percents do you estimate the present Water Charges occupy in their Household Income in average?

- Do you think that the PASAR System has contributed sufficiently on improvement of the Social Welfare in your Barangay?

- Which is your Barangay's Synthetic Evaluation on the PASAR Water Supply System, comparing the benefits and costs from and for using the PASAR System ?

(Please, select one of the three)

- * The present Water Charge is relatively expensive
- * The charge is almost reasonable
- * The charge is relatively cheap

6. Sewerage System in your Barangay

6.1 Present Situation of Sewerage System in your Barangay

The Study Team supposes the following situation of the Sewerage System in your Barangay. Please select one of the following three,

- (1) Untreatment of the sewage (Non Sewerage System)
- (2) Simple treatment of the sewage at each household and public faucet adapting biological method (Simple sewerage System)
- (3) Modern Sewerage System

6.2 Question:

- For which reason do you think the sewage remains untreated now?

(Please, select one out of the followings)

- * The residents including the users in your Barangay have little interest in the treatment of the sewage
- * Lack of fund for installation of the Simple and Modern Sewerage Systems
- * Others (please, enter if any)

Please fill the followings :

Name of your Barangay :
Name of the answerer :
Position of the answerer :
Date of answer :

The Study Team would like to express its gratitudes for your kind cooperation.

(4) ORMOC GENERAL HOSPITAL
 OSPA FARMERS MEDICAL CENTER

Please, fill the following tables or provide us "Hospital Statistic Report" which cover the items in the following tables.

When you cannot final/estimate figures of case of Infectious Diseases of Digestive Organs such as Gastroenteritis, Diarrhea and Dysentery, please, full the following tables with figures with case of whole kinds of Diseases and clarify the case as a notice.

1. Average Medical Treatment Costs* in case of Infectious Diseases of Digestive Organs.

Case	Contents of	1986	1987	Most Recent Year
Outpatient	Medicine (Peso for one week)			
	Diagnosis and Examination (Peso for one time)			
Inpatient	Medicine (Peso for one week)			
	Diagnosis and Examination (Peso for one time)			
	Accommodation charge (Peso for one week)			

Note *: - Per Patient

- Total of portion charged to directly the patient and National/Local Health Organizations.

2. Number of Victims, Frequency of the illness and Number of Death caused by Infectious Diseases of Digestive Organs such as Getroenterities, Diarrhea and Dysentery.

	1986	1987	Most Recent Year
Number of the Victims - Outpatient case - Inpatient case - Total			
Frequency of the Illness (Per Patient for one year)			
Number of Death			

3. Question.

- Do you think that the usage of clean water supply by residents supplied through the PASAR System has contributed to upgrading the level of health of the residents?
- Would you point out causes in case of the scarce contribution and degree of contribution in case of the large contribution?

Please, fill the followings:

Name of the answerer :
 Position of the answerer :
 Date of the answer :

The Study Team would like to express a great gratitude for your kind cooperation.

(5) PROVINCIAL HEALTH OFFICE

Please, fill the following tables or provide us "Health Statistics" which cover the items in the following tables.

1. Mortality by leading causes in 1986, 1987, and most recent year respectively.

Area	Leading Causes	Number of Death	Mortality Rate per 100,000 Population
Leyte Province	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Ormoc District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Merida District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Isabel District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		

2. Mobility by leading causes in 1986, 1987 and most recent year respectively.

Area	Leading Causes	Number of Victims	Mobility Rate per 100,000 Population
Leyte Province	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Ormoc District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Merida District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
Isabel District	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		

3. Average Medical Treatment Costs* caused by Infectious Deceases and Digestive Organs such as Gastroenteritis, Diarrhea and Dysentery.

(Unit: Peso/Victim/Day)

	Outpatient case	Inpatient case
1986		
1987		
Most recent year		

Note * : Average costs in whole Leyte Province.

Please, fill the followings :

Name of the answerer :

Position of the answerer :

Date of the answer :

The Study Team would like to express you a great gratitude for your cooperation.

(6) To STATISTIC DEPARTMENT

Please fill the following tables or provide us Statistics Books which cover the following items.

1. Population and Number of Household

	Population			Number of Household		
	1986	1987	1995	1986	1987	1995
Whole Country						
Leyte Province						
Whole Ormoc District						
1. SANTONINO 2. SALVACION 3. AIRPORT 4. LIBERTAD - ORMOC 5. LILOAN 6. CURVA 7. MARGEN 8. SANJUAN						
Whole Merida District						
9. PUERTO BELLO 10. CASILDA 11. CANUNSO 12. LIBAS 13. LAMANOC 14. MERIDA (Poblacion) 15. MACARIO 16. LIBJO 17. CALUNANGAN 18. BENABAYE						
Whole Isabel District						
19. APALE 20. TOLINGON 21. TUBOD 22. BILWANG 23. MATLANG 24. ISABEL (Poblicion) 25. SINANGAN 26. LIBERTAD - ISABEL						

2. Number of Workers including self-employed, Average Household Income, Number of Fire, and Average Value of Assets of Household.

		Whole Ormoc District	Whole Meride District	Whole Isabel District	Total of the 26 Barangays *
Number of Workers including self-employed (person)	1986				
	1987				
	1995				
Average Household Income (pesos/Month)	1986				
	1987				
	1995				
Number of Fire for the year	1986				
	1987				
	1995				
Average Value of Assets of Household (Pesos/Household)	1986				
	1987				
	1995				

Note * : Please refer to the previous table.

3. Consumer's Price Index

	1986	1987	1995
Whole Country			
Whole Leyte Province			

Base year : _____

Please fill the followings :

Name of the answerer :

Position of the answerer :

Date of the answer :

The Study Team would like to express its gratitudes for your kind cooperation.

(7) COVERING LETTER

October 2, 1996

Dear Sir,

Japan International Cooperation Agency (JICA) made a substantial financial cooperation in the installation of the Water Supply System from Ormoc City to Isabel District through Philippine Associated Smelting and Refining Corporation (PASAR) in 1985.

JICA has been continuously expanding the financial cooperation in programs/projects with high publicity in developing countries including your country. JICA wishes to reflect recommendations which can be derived from social effects on the Ormoc-Isabel area and situations of operation and administration of this project for the financial cooperation planning.

A Study Team comprising JICA staffs and a private consultant submits to your Organization questionnaire and data request sheet in order to grasp the above-mentioned topics. The Study Team would like to request your organization to reply them. The Study Team assures your Organization that the information and data provided by you will be exclusively used only for the above stated objectives of this study.

Mr. Yoshiteru SUNAGO, member of the Study Team, is in charge of distributing and collecting the questionnaire and data request sheet to/from your Organization by visiting your office.

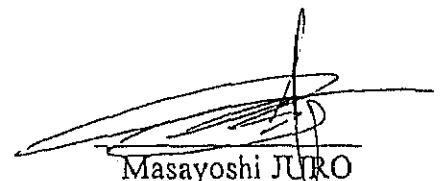
He is going to stay in the project site from October 2 (Wednesday) to October 8 (Tuesday) at the latest. If in case you are not able to hand over the completed questionnaire/data sheet to him by October 8, the Study Team would like to request you to kindly send them back to his office in Japan at the address given below by October 15 (Tuesday).

The Study Team surely realizes that filling the questionnaire/data sheet will give your Organization an additional work. However, we once again request you to provide us the necessary information and data as mentioned in the questionnaire/data sheet.

The Study Team will be highly obliged to you for your kind cooperation in this regard.

Thank you.

Yours sincerely,



Masayoshi JURO
The study Team Leader
Japan International Cooperation agency

Cont.

Note : Address of Mr. Yoshiteru SUNAGO's office

Fukuyama Consultants International Co., Ltd
Tachibana-Annex Bldg., 3F,
25-14, Kameido 2-Chome,
Koto-ku, Tokyo 136
Japan

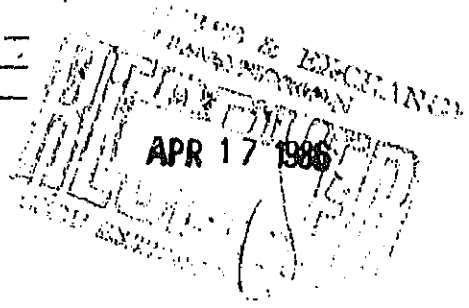
Fax No. : (+81-3)-5609-3155

Tel No. : (+81-3)-5609-3111

資料 2 BWCA Constitution and By-Laws

BARANGAY WATER CONSUMERS' ASSOCIATION, INC.

Barangay of _____
Municipality/City of _____
Province of _____



CONSTITUTION AND BY-LAWS

INTRODUCTION:

Due to the need of effective operation and maintenance management of all water system that are donated by PHILPHOS and PASAR to the Barangays along LWSS pipe lines from Salvacion, Ormoc City to the Leyte Industrial Development Estate or LIDE, which is located at Isabel, Leyte, twenty six (26) Barangay Water Consumers' Associations or BWCA have been organized in areas where the water system are located.

The officers duly elected in every BWCA are supposed to serve their respective Barangay residents in providing water for their household consumption and at the same time, to provide income to the Association not only for repair and maintenance of their respective water system but also for other projects in the future.

Because of these reasons, representatives of the 26 Barangay Water Consumers' Association convened into one body to formulate a Constitution and By-laws to be implemented by all BWCAs in their respective Barangays, at the Farmers Training Center (FTC) last October 13, 20 and 27, 1985.

Article I THE ASSOCIATION

Section 1. The Name of the Association shall be Barangay _____ Consumers' Association, Inc..

Section 2. The service area of the Association shall be within the physical confines of Barangay _____ and its principal office shall be at _____.

Article II AIMS AND PURPOSES

Section 1. The Association is organized in order to have an effective operation and maintenance management of water system.

Section 2. The Water System has been donated by PHILPHOS and PASAR in order to provide potable, clean and safe water to the residents of the Barangay for their Household consumption.

Article III WATER USAGE

Section 1. The service water shall be used only for drinking, bathing, washing clothes and utensils, and for all other household consumption.

Section 2. Any other usage of water which are not included in Sec. 1 of Art. III of this Constitution and By-Laws shall require written approval from the duly constituted authorities of the Association, provided that such usage will not adversely affect the interest of the General Membership.

Section 3. There are 2 types of Water Service connections, namely:

- a. Level II - otherwise known as Communal Water Service connection of only one faucet wherein a cluster of not less than 3 households but not more than 20 households has the right to use it for their own household consumption.
- b. Level III - otherwise known as Individual Water Service Connection wherein an individual household enjoy their own private faucet.

Section 4. The Executive Committee has the authority to adopt further policies/rules regarding use of water and its corresponding fees as it may deem proper and expedient.

Article IV

MEMBERSHIP

Section 1. There are two classes of membership, namely:

- a. Bonafide member - is a member having a family of his/her own who, after having accomplished all of the requirements for membership has been duly accepted as regular member and has been given a membership certificate of the Association.

A member may be a father or a mother of a family or any of the family member to represent the family. Two or more members may be residing in only one house.

- b. Honorary member - is an individual person without a family of his/her own, lodger or a boarder of anybody who, after having accomplished all of the requirements for membership for honorary members, has been duly accepted as honorary member and has been given a membership certificate of the the Association.

Section 2. A person can be a bonafide member of the Association if:

- a. He/she is a resident of the Barangay.
- b. He/she owns or rents a house, an apartment, a business enterprise, and any other property that needs water services within the water service area of the association.
- c. He/she has duly paid annual membership fee, and
- d. His/her application for membership to the Association has been duly approved by the Association thru the Vice Chairman for Membership and Education Committee.

Section 3. The annual membership fees shall be the following:

- a. For bonafide or regular member - P5.00
- b. For honorary member - P5.00

Said fees shall be payable every 15th of January of every year.

- Section 4. A member who has two or more houses or establishments that are enjoying either Level II or Level III shall have to pay additional membership fee of P5.00 for every additional house, or establishment.
- Section 5. The obligations of every member shall be the following:
- a. To understand, accept and abide by the Articles of Incorporation, Constitution and By-Laws, policies, rules and regulations of the Association.
 - b. To attend all regular and special General Assembly Meetings of the Association, seminars/trainings and all other meetings of the Association.
 - c. To pay his monthly water bills regularly.
 - d. To help protect the properties of the Association and of the properties of LWS from where the Association is obtaining water.
 - e. To follow the method recommended by the Association in the proper use of water and taking care of facilities, and
 - f. To help attain the aims and purpose of the Association.
 - g. To pay his annual membership fee.
 - h. To pay his annual administrative fee.
- Section 6. The rights of every member are the following:
- a. Every member including the member of his family shall have the right to use water from their respective water service connection,
 - b. Every member has the right to hold any elective and appointive position of the Association, provided that he/she is not expressly disqualified under this constitution and By-Laws and in any policy, rules and regulations of the Association,
 - c. Every member has the right to assemble and petition any officer of the Association for redress and grievances,
 - d. Every member having several establishments with water service connections shall have the right to only one vote in any activities of the Association, and
 - e. Every member has the right to withdraw membership from the Association, provided that clearance shall have to be accomplished by such member from the Association.
- Section 7. The honorary member has no other right except to use water from their respective water service connections and the right to withdraw membership from the Association.

Section 8. Penalty of non-compliance to the Articles of Incorporation, policies, rules and regulations of the Association not included in this Constitution and By-Laws shall be formulated by the EXCOV' with the consent of the General Assembly from time to time when the need arises.

Article V MEETINGS OF THE ASSOCIATION

Section 1. The meetings of the Association shall be the ff:

- a. Coordination Meeting - This meeting shall be attended by the members of the EXCOV', members of the different committees, all cluster leaders, affected members (if any) and all interested members of the Association. This meeting shall be done in every last Sunday of March, June, September and December of every year.
- b. Annual General Assembly Meeting - this meeting shall be attended by the General Membership and shall be done in every first Sunday of December of every year. In the meeting, the operational and financial status of the Association shall be reported by the officer concerned to the General Assembly. It also during this meeting that the election of the members of the EXCOV' of the election of the Purok Representatives, as the case may be, shall be held. Furthermore, it is during this meeting that amendments to the Constitution and By-Laws, new policies, rules and regulations formulated by the EXCOV' shall be ratified and/or approved by the General Assembly for implementation
- c. Executive Committee Meeting - This meeting shall be attended by the Chairman and the four (4) Vice Chairmen every third Saturday of every month.
- d. Special General Assembly Meeting - this meeting may be called by the chairman of the EXCOV', or by the three (3) members of the EXCOV', or by at least 1/3 of the General Membership when the need arises and shall have to be attended by the General Membership.
- e. Regular Committee Meeting - every committee of the Association shall have its separate regular committee meeting every last Sunday of every three months after the Coordination Meeting.
- f. Regular Cluster Meeting - every cluster of households shall have its separate regular meeting once in every three months. The date and time of the meeting shall be decided by the cluster members themselves.
- g. Special Committee Meeting - this meeting may be called by the representative Vice Chairman of each committee by at least three members of the committee constituting a quorum when the need arises.

- h. Special Cluster Meeting - this meeting may be called by the cluster leader or by at least 1/3 of all members of the cluster.

Section 2. Attendance of ten percent (10%) of all members may establish a quorum for the General Assembly meeting provided that a proof of notice is established, and for all other meetings of the Association, attendance of fifty percent (50%) plus one of all the members concerned constitutes quorum.

Section 3. Order of Business shall be the steps to be followed in holding a meeting.

- a. Roll call and proof of quorum
- b. Proof of notice
- c. Reading of minutes of the last meeting and action taken.
- d. Reports of committees
- e. Reports of unfinished business
- f. New Business
- g. Adjournment

Article VI

THE GENERAL ASSEMBLY

Section 1. The General Assembly shall be composed of all bona-fide members of the Association in a meeting called, that is supposed to be attended by the General Membership after a prior notice of at least seven days shall have been made and delivered to all members, notice shall contain the issues to be taken during such meeting.

Section 2. The General Assembly has the power to review, approve, and disapprove all policies, rules and regulations formulated by the EXECOM, especially if such policies, rules and regulations adversely affect the interests of the General Membership.

No policy, rule and regulation can be enforced and/or implemented without the consent of the General Assembly except those policies, rules and regulations that are already approved by the General Assembly.

Section 3. The General Assembly has the power to approve the annual budget of the Association.

Section 4. The General Assembly has the power to review, investigate and to decide petition against any officer of the Association and all other cases within the Association that cannot be resolved by the other lower bodies of the Association.

Article VII

THE EXECUTIVE COMMITTEE OR EXECOM

Section 1. The affairs, operations and management of the Association shall be vested on the EXECOM. The Members of the Board of Directors shall automatically be the members of the EXECOM.

Section 2. The EXECOM is also vested with the authority to formulate policies, rules and regulations of the Association, subject to the approval of the General Assembly.

Section 3. The EXECOM shall compose of the following officers:

- a. Chairman/PRESIDENT
- b. Secretary and Bookkeeper
- c. Vice Chairman for Membership and Education Committee
- d. Vice Chairman for Finance and Collection Committee/TREASURER
- e. Vice Chairman for Audit and Inventory Committee
- f. Vice Chairman for Repair and Maintenance Committee

Section 4. The members of the EXECOM shall have no vote in the meetings of the General Assembly after their election.

Article VIII CONFLICT BETWEEN THE GENERAL ASSEMBLY AND THE EXECOM

Section 1. In case of conflict between the two bodies (G.A. and EXECOM) insofar as policy making is concerned and if the life and operation of the Association is at stake, any of two bodies can call a plebiscite for the matter of conflict, in which case, the General Membership or the entire membership has to be required to vote, provided that a prior notice of at least one month has ~~to~~ to be made and delivered to each and every member and provided further that such notice shall contain the issues to be decided to.

Section 2. During the date and time of the plebiscite, each of the two opposing bodies shall be given the chance to present their stand in 20 minutes time before the General Membership.

Article IX DUTIES AND RESPONSIBILITIES OF THE MEMBERS OF THE EXECOM

Section 1. The Chairman /PRESIDENT

- a. To exercise supervision over the four Committees headed by each of the four Vice Chairman.
- b. To preside all meetings of the EXECOM.
- c. To call a special General Assembly meeting when the need arises.
- d. To call an emergency meeting of the EXECOM when the need arises.
- e. To vote in order to break the tie in decisions of the EXECOM.
- f. To enforce the Articles of Incorporation, Constitution and By-Laws, policies, rules and regulations of the Association.
- g. To be accountable to the General Assembly about the affairs, operations and management of the Association.
- h. To report to the General Assembly of the overall status of the Association and its plans for the next ensuing year.
- i. To approve all cash/or material disbursements of the Association.

- j. To endorse to the General Assembly all policies, rules and regulations formulated by the EXECOM for comment, approval or disapproval.
- k. To represent the Association in any official meeting with other associations, institution, agencies for the benefit of the Association.

Section 2. The Vice Chairman for Membership and Education Committee

- a. To call a meeting of the Membership and Education Committee or MEC when the need arises.
- b. To preside all meetings of the MEC.
- c. To be responsible for the registration of members and all other activities related to membership.
- d. To be responsible also for the Education and Sex Training of members with regards to water conservation, correct usage of water, and other institutional activities of the Association.
- e. To accept and orient applicants for membership about the rights, duties and responsibilities of members.
- f. To approve applications for membership and responsible for the issuance of Membership Certificate or card.
- g. To report to the EXECOM all activities of his committee.

Section 3. The Vice Chairman for Finance and Collection Committee /TREASURER

- a. To call a meeting of the Finance and Collection Committee or FCC when the need arises.
- b. To preside all meetings of the FCC.
- c. To serve as the Treasurer of the Association.
- d. To receive collection of water bills and to deposit collection to the Bank in the name of the Association.
- e. To be responsible for all of the activities of the Association related to Finance and Collection.
- f. To report to the EXECOM all activities of his committee.
- g. He shall be bonded in such sums and in such sureties as the board/execom may determine.

Section 4. The Vice Chairman for Audit and Inventory Committee

- a. To call a meeting of the Audit and Inventory Committee or AIC when the need arises.
- b. To preside all meetings of the AIC.
- c. To be responsible for all audit and inventory activities of the Association.
- d. To report to the EXECOM about the activities of his committee.

Section 5. The Vice Chairman for Repair and Maintenance Committee

- a. To call a meeting of the Repair and Maintenance Committee or RMC when the need arises.
- b. To preside all meetings of the RMC.
- c. To be responsible for the repair and maintenance activities of the association.
- d. To serve as the water service Inspector of the Association.
- e. To authorize cluster Leaders to attend to minor repair and maintenance of their respective cluster.
- f. To report to the EXECOM about the activities of his committee.

Section 6. The Secretary

- a. To attend all meetings of the EXECOM and to record and to keep the minutes of its proceedings.
- b. To keep the Seal, Constitution and By-Laws and other important documents of the Association.
- c. To give notice of all meetings of the Asso.
- d. To act as a presiding officer of the EXECOM in the absence of the Chairman until a temporary presiding officer is chosen.
- e. To call the roll and to determine quorum.
- f. To call the members to any regular or special General Assembly meeting.
- g. To serve as the Bookkeeper of the Association with the following functions:
 - g.1 Maintains proper accounting and control of the Association's financial records.
 - g.2 Prepares payroll and other payments as required.
 - g.3 Prepares financial statistical report and annual budget of the association.
 - g.4 Maintains on current basis accounts receivable.
 - g.5 Coordinate office activities/operations in accordance with association's Annual Budget.
- h. He shall have no voting power in the EXECOM.
- i. He must be a citizen and resident of the Philippines.

Article 8

THE DIFFERENT COMMITTEES

Section 1. The Four different committee shall be the following:

- a. Membership and Education Committee
- b. Finance and Collection Committee
- c. Audit and Inventory Committee
- d. Repair and Maintenance Committee

- Section 2. Each committee shall be composed of the duly elected Vice Chairman for the particular committee as its head and the representatives of every Water Purok to each committee respectively.
- Section 3. Each committee has the responsibility of solving problems related to their respective committee and of improving its respective operations and management procedures.
- Section 4. Each committee members representing the water puroks has equal right with their respective Vice Chairman when acting as a body during the meeting of the committee.

Article XI

THE WATER PUROK

- Section 1. The Water Purok shall be composed of ten or more clusters of households having a common interest, as insofar as water services is concerned. It is also a cluster of households whose rights need to be represented in all committee meetings.
- Section 2. An area within a Water Purok shall be determined basing upon geographical considerations in the barangay. It may be based on technical considerations depending upon the "actual-as-built" plans of the water system.
- Section 3. Members within a Water Purok shall elect from among themselves one or two representatives to represent their interest to each of the four committees.

Article XII

THE CLUSTER OF HOUSEHOLDS

- Section 1. A Cluster of households is a group of households having its own cluster leader and cluster collector by electing them from among themselves.
- Section 2. Cluster of households is designed to foster closer ties and relationship between members of households; to effect cooperativism among the members; and to ease collection of water bills.
- Section 3. There are three classes of cluster, namely:
- a. Level II cluster - a group of households enjoying only one communal faucet.
 - b. Level III Cluster - a group of household enjoying individual private faucet each.
 - c. Combination of Level II and Level III clusters
- Section 4. The cluster leader has the following duties and responsibilities:
- a. To call a meeting of the cluster when the need arises.
 - b. To preside all meetings of the cluster.
 - c. To maintain harmonious relationship between members of the cluster.
 - d. To help enforce the policies, rules and regulations of the association to his fellow cluster members.

- e. To represent the cluster and its members during coordination meetings and in all other meetings in which the interest of the cluster is affected.
- f. To serve as cluster collector if there is no cluster collector in the cluster.

Article XIII

PRIVILEGES

- Section 1. All members of the EXCOM including the Secretary shall be free from monthly water fees/bills while being members of the EXCOM.
- Section 2. The donor of the reservoir site shall also be free from monthly water fee/bills for a period of five years. Donor of reservoir sites for free water shall not be more than one in every EWCA.
- Section 3. Officers who are on official business shall be given free transportation and meal allowance to be determined by the EXCOM with the consent of the General Assembly.
- Section 4. Privileges other than those mentioned herein shall need the approval of the General Assembly.

Article XIV

ELECTIONS AND APPOINTMENTS

- Section 1. The members of the EXCOM shall be elected from among the General Membership and by the General membership, except the Secretary who shall be appointed by the Chairman with the consent of the four other members of the EXCOM.
- Section 2. The General Membership shall be all bonafide members of the Association who are not disqualified to vote, by the General Assembly.
- Section 3. Water Purok representatives to the different committees shall be elected from among the members within a particular Water Purok and by the members within that the same particular Water Purok.
- Section 4. The cluster leader and/or cluster collector shall be elected from among the members of the cluster and by the members of the cluster.
- Section 5. The election of the members of the Executive Committee (Execom) shall be on the first Sunday of December of every year starting on December 6, 1987 at 1:00 PM to 5:00 PM, provided that the term of one half (1/2) of the number shall expire every year.
- Section 6. The election of Water Purok representatives to the different committees shall be on the first Sunday of December of every two years starting on December 6, 1987 at 1:00 PM to 5:00 PM.
- Section 7. The election of cluster leaders shall be dependant on the collective decision of each respective cluster. For this purpose; a quorum of 50% of its members plus 5 shall be required.
- Section 8. For purposes of an honest and fair election, a special Committee on Election (COMLEC) shall be created by the General Assembly 15 days before the election date.

Section 8. The Committee on Election or COMTEC shall be composed of 3 Chairman and 2 members who shall be elected from among the General Assembly and by the General Assembly.

Section 10. The COMTEC shall have the following powers, duties and responsibilities:

- a. To accept nominations of candidates 15 days before the date and time of elections.
- b. To introduce and to publicize the names of the candidates for particular positions by posting them on at least three conspicuous places in the barangay.
- c. To obtain and investigate list of registered members from the Vice Chairman for Membership and Education Committee
- d. To make a list of qualified voters of the Association and have it posted in three conspicuous places in the Barangay and at the designated voting place during the election.
- e. To accept the names of the representative voters of the illiterate bonafide members of the Association and have it posted with qualified voters opposite to the names of whom they are going to represent.
- f. To supervise the conduct of election. The election shall always be conducted in secret balloting.
- g. To canvass/count and make results of the election and,
- h. To proclaim the winners.

Article XV

QUALIFICATIONS OF CANDIDATES FOR ANY POSITION IN THE ASSOCIATION

Section 1. All candidates shall possess the following qualifications:

- a. Bonafide member of the Association.
- b. Of legal age (18-67 years old)
- c. Has the knowledge about the constitution and By-laws of the Association.
- d. A resident of the Barangay for at least one yr.
- e. A Filipino citizen
- f. Not holding an elective position in the gov't.
- g. Knows how to read and write Cebuano language
- h. Has no criminal record
- i. Willing to serve the association and its members

Article XVI

TERM OF OFFICE

Section 1. All officers shall have a term of two years

Section 2. All Officers can be reelected for as many terms as the General Assembly or the particular member may decide and shall hold office until replaced by the newly elected officer.

- Section 3. All officers can be removed from office due to:
- a. culpable violation of the Constitution and by-laws of the association.
 - b. dishonesty to the association
 - c. grave misconduct of office
 - d. other activities inimical to the interest of the General membership.

Article XVII

VACANCY

- Section 1. In case of vacancy in any position in the Execom, the Board of Directors/Execom may fill up the vacant position in the said Board/Execom by majority vote of the remaining Directors and/or Execom members if still constituting a quorum, provided that the vacancy was not caused by removal or expiration of term. Otherwise, it has to be filled up by the majority vote of the general assembly.
- Section 2. Vacancy in any office except that of the Board of Directors/Execom shall be filled up by majority vote of all members of the Board and/or Execom.
- Section 3. The officer chosen to fill up the vacant position shall serve only up to the remaining period of the term.

Article XVIII

GENERAL GROUND RULES

- Section 1. The following ground rules shall apply to all officers and members of the association:
- a. Wastage and Sale of water shall be strictly prohibited.
 - b. The connection of pipes from the main distribution pipes or from any existing water service connection shall never be allowed.
 - c. Bathing and washing clothes and utensils shall never be done in any communal faucet.
 - d. No one shall be denied membership to the Association as long as he/she can comply all requirements for membership
 - e. Faucets shall have to be closed when it is not used.
 - f. It shall be the responsibility of the cluster to maintain the good operation of their respective faucets.
 - g. A grace period of only 90 days shall be provided to delinquent paying members before any drastic punitive action has to be done near the communal faucet.
 - h. All other ground rules that are not included in this Article but are necessary to affect a sound operation and management of the water system and of the Association, shall have to be formulated by the EXECOM with the consent of the General Assembly, provided that such ground rules are not inconsistent to the provisions of this Constitution and By-Laws and to the Laws of the land.

Article XIX DEPOSITS AND WITHDRAWAL OF FUNDS OF THE ASSOCIATION

- Section 1. There shall be three signatories to open a Bank Account of the Association and those three shall be the Chairman, the Vice Chairman for Finance and Collection Committee, and the Vice Chairman for Repair and Maintenance Committee.
- Section 2. The Vice Chairman for Finance and Collection Committee can only withdraw funds from the Bank with the conformity of the Vice Chairman for Repair and Maintenance and approval of the Chairman.
- Section 3. It is necessary that the Vice Chairman for WCA has to sign all withdrawals of funds in order to be sure that withdrawals for repair and maintenance shall be given the first priority.
- Section 4. No withdrawals for repair and maintenance shall be denied of the signatures of the Vice Chairman for FCE and the Chairman, provided that supporting papers are fully accomplished subject to the availability of funds.
- Section 5. Withdrawals of funds according to its priority.
- a. Office supplies and other administrative needs - 2nd priority
 - b. Expenses for the travel of officers on official business (OB) - 3rd priority
 - c. Extensions of water system and other similar expenses - 4th priority
 - d. Future projects - 5th or last priority
- Section 6. Withdrawals for other future projects shall never be done until after ten years or until after an excess of the Repair and Maintenance Reserve is attained. Such repair and maintenance reserve shall be not less than Fifty (50%) percent of the total current cost of the entire water system of the the Association, provided that all future projects shall be economic in nature and are self liquidating and/or income generating.
- Section 7. Withdrawals for future projects shall be loaned by the Association to the particular project payable within a certain period of time without an interest.

Article XX AMENDMENTS

- Section 1. Any provision of this Constitution and By-Laws may be amended by the majority votes of the General Assembly membership in a Special General Assembly meeting especially called for amendments and by majority of the board/execom.
- Section 2. Thirty days before such Special General Assembly meeting, a prior notice shall be made and delivered to each and every member of the Association containing the proposed amendments and the provisions to be amended.

Section 3. In order to be sure that all members are well informed of the General Assembly meeting for amendments, a follow up prior notice has to be made and delivered to each and every member 5 days before the schedule date.

Broadcast media may be used to fully inform all members about such General Assembly meeting.

Section 4. Any member has the right to propose amendment to this Constitution and By-Laws, and, as such, at least one third (1/3) of the General Membership can call a Special General Assembly for proposal of an amendment.

Article XXI

THE SEAL

The Seal of the Association shall contain a picture of a family to a faucet. The family and the faucet shall be enclosed by a structure that resembles a drop of water.

Article XXII

LIST OF BARANGAY REPRESENTATIVES WHO DRAFTED/PROMULGATED THIS CONSTITUTION AND BY-LAWS

<u>NAME</u>	<u>BARANGAY</u>
1. Nicanor GENOSA	Pob. Isabel, Leyte
2. Marcelo Nepomuceno	San. Roque, Relocation, Isabel
3. Dr. Melecio Tatoy, Jr.	Pob. Isabel, Leyte
4. Cirilio German	Tolingon, Isabel, Leyte
5. Felipe Ruiz	San Juan, Ormoc City, Leyte
6. Juanito Arcel	Lilo-an, Ormoc City, Leyte
7. Avelino Villasan	Pto. Bello, Merida, Leyte
8. Editha Victorio	Libas, Merida, Leyte
9. Rosita Lavesores	Lamanoc Merida, Leyte
10. Dioscoro Polidd.	Sto. Niño, Ormoc City
11. Leonardo Pantula	Liloan, Ormoc City, Leyte
12. Borxo Pacheco	Salvacion I, Ormoc City, Leyte
13. Potenciano Vero	Libas, Merida, Leyte
14. Bonifacion Toro	Salvacion II, Ormoc City
15. Antonio Lozano	Sto. Niño, Ormoc City, Leyte
16. Teotimo Nahine	Bilwang, Isabel, Leyte
17. Buenaventura Dayandayan	Bilwang, Isabel, Leyte
18. Roberto Ramos	Can-unzo, Merida, Leyte
19. Cornelio Chavez	Analo, Isabel, Leyte
20. Vicente Dacal	Calunangan, Merida, Leyte
21. Juanito Isidro	Lamanoc, Merida, Leyte
22. Ramon Sancoves	Libjo, Merida, Leyte
23. Elíasar Nodaló	Pob. Merida, Leyte
24. Jun Panares	Macario, Merida, Leyte
25. Romeo Borizo	Lamanoc, Merida, Leyte
26. Guerino Igot, Jr.	Can-unzo, Merida, Leyte
27. Lascoña, Alla	Benabaye, Merida, Leyte
28. Berlita Sanchez	Casilda, Merida, Leyte
29. Bonifacio Avila	San Roque, Relocation, Isabel, Leyte
30. Pedro Vallas	Sta. Cruz, Relocation, Isabel, Leyte
31. Nenita Malinao	Hatlano, Isabel, Leyte
32. Bonito Tajos	Curva, Ormoc City, Leyte
33. Reynaldo Madis	Margen, Ormoc City, Leyte
34. Antonio Bating	Hatlano, Isabel, Leyte
35. Demetrio Diaz	Salvacion I, Ormoc City, Leyte
36. Simplicio Pedoy	Can-unzo, Merida, Leyte

- | | |
|----------------------------|-------------------------------|
| 37. Alfredo Dacoycoy | Can-unzo, Merida, Leyte |
| 38. Nemesiano Lloveas, Jr. | Tubod, Isabel, Leyte |
| 39. Jesus Maraveles | Macario, Merida, Leyte |
| 40. Olimpico Anonat | Calunangan, Merida, Leyte |
| 41. Joel Erejer | Calunangan, Merida, Leyte |
| 42. Feliciano Mejares | Li-loan, Ormoc City |
| 43. Teody Pescador | Sta. Cruz, Relocation, Isabel |
| 44. Maurecio Colon | Sta. Cruz, Relocation, Isabel |
| 45. Casimero Quizon | Pob. Merida, Leyte |
| 46. Edilberto Laude | Salvacion I, Ormoc City |
| 47. Venancio Esperanza | Libertad, Isabel, Leyte |
| 48. Avelino Teves | San Juan, Ormoc City, Leyte |
| 49. Paterno Papillero | San Juan, Ormoc City, Leyte |
| 50. Severino Torino | Margen, Ormoc City, Leyte |
| 51. Antonio Villamor | Libertad, Ormoc City |

Article XXIII

EFFECTIVITY

Section 1. This Constitution and By-Laws shall take effect immediately after it is approved by the Securities and Exchange Commission.

APPROVED AND ADOPTED this ____ day of _____, 1986.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

資料3 PASAR上水が地域住民の健康面にもたらす経済便益

— 1995年1年間の経済便益（概算） —

1. 経済便益額（1995年1年間）

PASAR上水がもたらす、罹患による 時間損失コスト削減額	111,000ペソ/年
PASAR上水がもたらす、死亡による 経済損失コスト削減額	1,119,000ペソ/年
PASAR上水がもたらす、治療費の 削減額	1,889,000ペソ/年
合 計	3,119,000ペソ/年

2. 上記経済便益額推計の算式

*印は1995年, **印は1982年

$$\begin{aligned} \left\{ \begin{array}{l} \text{罹患による時間損失} \\ \text{コスト削減額}^* \end{array} \right\} &= \left\{ \begin{array}{l} \text{地域の} \\ \text{就業者数}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{1日当たり} \\ \text{最低賃金}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{上水が主原因と} \\ \text{なる罹患}^{**} \end{array} \right\} \\ &\quad \times \left\{ \begin{array}{l} \text{上水が主原因となる} \\ \text{疾患の平均治療日数}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{PASAR上水の疾患} \\ \text{発生削減効率}^* \end{array} \right\} \end{aligned}$$

$$\begin{aligned} \left\{ \begin{array}{l} \text{死亡による経済損失} \\ \text{コスト削減額}^* \end{array} \right\} &= \left\{ \begin{array}{l} \text{地域の} \\ \text{就業者数}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{死亡しなかった場合の} \\ \text{生涯期待賃金収入}^* \end{array} \right\} \\ &\quad \times \left\{ \begin{array}{l} \text{上水が主原因となる} \\ \text{疾患の死亡率}^{**} \end{array} \right\} \times \left\{ \begin{array}{l} \text{PASAR上水の, 疾患} \\ \text{死亡削減効率}^* \end{array} \right\} \end{aligned}$$

$$\begin{aligned} \left(\begin{array}{l} \text{治療費削減額}^* \end{array} \right) &= \left(\begin{array}{l} \text{人口}^* \end{array} \right) \times \left\{ \begin{array}{l} \text{上水が主原因となる罹患} \\ \text{1回当たりの治療費}^* \end{array} \right\} \\ &\quad \times \left\{ \begin{array}{l} \text{上水が主原因} \\ \text{となる罹患率}^{**} \end{array} \right\} \times \left\{ \begin{array}{l} \text{PASAR上水の疾患} \\ \text{発生削減効率}^* \end{array} \right\} \end{aligned}$$

3. 上記算式の説明変数の定義及びそれを求めるための算式

$$\left\{ \begin{array}{l} \text{上水が主原因と} \\ \text{なる罹患率}^* \end{array} \right\} = \left\{ \begin{array}{l} \text{上水が主原因と} \\ \text{なる罹患患者数}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{年間罹患} \\ \text{回数}^* \end{array} \right\} / \left(\begin{array}{l} \text{人口}^* \end{array} \right)$$

$$\left(\begin{array}{l} \text{地域の就業者数}^* \end{array} \right) = \left(\begin{array}{l} \text{地域の人口}^* \end{array} \right) \times \left\{ \begin{array}{l} \text{地域の} \\ \text{労働力比率}^* \end{array} \right\} \times \left\{ \begin{array}{l} \text{地域の} \\ \text{就業比率}^* \end{array} \right\}$$

$$(\text{地域の就業比率}) = 1.0 - (\text{地域の失業率})$$

$$\left[\begin{array}{l} \text{上水が主原因となる} \\ \text{疾患の平均治療日数}^* \end{array} \right] = \left[\begin{array}{l} \text{同疾患の外来} \\ \text{治療の割合}^* \end{array} \right] \times \left[\begin{array}{l} \text{外来治療の} \\ \text{必要回数} \end{array} \right] + \left[\begin{array}{l} \text{同疾患の入院} \\ \text{治療の割合}^* \end{array} \right] \\ \times \left[\begin{array}{l} \text{入院治療の} \\ \text{必要日数} \end{array} \right]$$

$$\left[\begin{array}{l} \text{死亡しなかった場合} \\ \text{の生涯期待賃金収入}^* \end{array} \right] = \left[\begin{array}{l} \text{1世帯当たり} \\ \text{1ヶ月平均所得}^* \end{array} \right] \times 12 \text{ヶ月} \times 20 \text{年}$$

$$\left[\begin{array}{l} \text{上水が主原因となる罹患} \\ \text{1回当たりの治療費}^* \end{array} \right] = \left[\begin{array}{l} \text{外来で治療} \\ \text{する割合}^* \end{array} \right] \times \left[\begin{array}{l} \text{罹患1回当たり} \\ \text{外来での治療費}^* \end{array} \right] \\ + \left[\begin{array}{l} \text{入院で治療} \\ \text{する割合}^* \end{array} \right] \times \left[\begin{array}{l} \text{罹患1回当たり} \\ \text{入院での治療費}^* \end{array} \right]$$

$$\left[\begin{array}{l} \text{上水が主原因となる罹患1回} \\ \text{当たり外来での治療費}^* \end{array} \right] = \left[\begin{array}{l} \text{外来の場合の薬剤費} \\ \text{(1週間分)}^* \end{array} \right] \times \left[\begin{array}{l} \text{外来での} \\ \text{治療日数} \end{array} \right] / 7 \\ + (\text{検査費}^*)$$

$$\left[\begin{array}{l} \text{上水が主原因となる罹患1回} \\ \text{当たり入院での治療費}^* \end{array} \right] = \left[\begin{array}{l} \text{入院の場合の薬剤費} \\ \text{(1週間分)}^* \end{array} \right] \times \left[\begin{array}{l} \text{入院での} \\ \text{治療日数} \end{array} \right] / 7 \\ + (\text{検査費}^*) + \left[\begin{array}{l} \text{ベット代} \\ \text{(1週間分)}^* \end{array} \right] \times \left[\begin{array}{l} \text{入院での} \\ \text{治療日数} \end{array} \right] / 7$$

4. 基礎データ

上記2及び3の諸項目を推計するための基礎データは次のように設定・推計した。

(1) 上水が主原因となる罹患率 : -0.0267 (人口1,000人に対して26.7人)

-1982年の融資時の調査記録から引用

(2) 地域の人口 : -62,282人 (1995年) 推定 (前掲表IV-4 参照)

-BILPHAとPJHS2 and 3の人口についてはPASAR上水
使用量 (1995年, 表IV-6), 1人当たりPASAR
上水使用量65ℓ/人/日とPASAR上水使用世帯数
比率50% (表IV-6, 表IV-2) を仮定

-SIMANGANの人口は1990年の当Barangay人口を年平均
2.1% (表IV-4) で増加すると仮定して推計

- (3) 地域の労働力比率 : -40% (1995年) 想定
-他の開発途上国を参考にして想定
- (4) 地域の就業比率 : -80% 想定
-20%の失業率を想定
- (5) 1日当たり最低賃金 : -83ペソ/日, 推定
-世帯当たり, 1ヶ月の平均所得を2,500ペソ (表V-3) と推定して計算
- (6) 上水が主原因となる疾患の平均治療日数 : -8.4日
- (7) 上水が主原因となる疾患の必要治療日数 : -外来の場合: 10日
入院の場合: 7日
-1982年の融資時の調査記録から引用
- (8) 同疾患の外来治療と入院治療の割合 : -外来の場合: 46%
入院の場合: 54%
-OSPA Medical Center提供資料を基に計算
- (9) PASAR上水が主原因となる疾患の発生削減効率 : -PASAR上水が供給されなかった場合 (Pre-PASARシステム) に比べて, 30%減, 想定
-1982年の融資時の調査記録から引用
- (10) 1世帯当たり1ヶ月平均所得 : -3,000ペソ/月/世帯, 推定 (表V-3)
- (11) 同罹患1回当たり外来での治療費 : -薬剤費: 450ペソ/7日分
検査費: 250ペソ/回 (1回を想定)
-OSPA Medical Center提供資料

(12) 同罹患1回当たり入院での治療費 : -薬剤費: 2,250ペソ/7日分
検査費: 500ペソ/回(1回を想定)
ベット代: 3,500ペソ/7日間
-OSPA Medical Center提供資料

(13) PASAR上水が主原因となる疾患死亡率の削減効果 : -PASAR上水が供給されなかった場合(Pre-PASARシステム)に比べて, 30%減, 想定
-1982年の融資時の調査記録から引用

資料 4 30 BarangayにおけるPASAR上水使用者からBWCA/Water Districtが徴収するPASAR上水使用料総額の推計

1. 再推計の目的

前掲表IV-14には約半数のBWCA/Water Districtの表題の額（ペソ/月）が推計されている。この中には提供されたデータには整合的でないものも含まれているため、信憑性の低い推計値も含まれている。そこで、本資料で、全BWCA/Water Districtを網羅し、信憑性の低い推計値を再推計して、全BWCA/Water Districtが徴収するPASAR上水使用料総額（1995年、ペソ/月）を推計する。

なお、この推計値はPASAR上水が地域（PASAR上水が供給されている地域）の住民の健康面にもたらす経済便益額と比較するのに用いられる。

2. PASAR上水使用料を推定するための算式

信憑性の高い推定値が既に得られているBWCA/Water District（前掲表IV-14）を除き、次の算式で他の地域を推定した。

$$\left\{ \begin{array}{l} \text{徴収するPASAR上水} \\ \text{使用料} \end{array} \right\} = \left\{ \begin{array}{l} \text{1世帯当たり} \\ \text{徴収使用料} \end{array} \right\} \times \left\{ \begin{array}{l} \text{PASAR上水使用} \\ \text{世帯数} \end{array} \right\}$$

$$\left\{ \begin{array}{l} \text{PASAR上水使用} \\ \text{世帯数} \end{array} \right\} = \left\{ \begin{array}{l} \text{PASAR上水} \\ \text{使用量} \end{array} \right\} / \left\{ \left[\begin{array}{l} \text{1人1日当たり} \\ \text{PASAR上水使用量} \end{array} \right] \times 365 \text{日} \right. \\ \left. \times \left[\begin{array}{l} \text{世帯当たり} \\ \text{人口} \end{array} \right] \right\}$$

3. 上記推定に採用した想定値と推定結果（1995年）

Barangay	PASAR上 水使用者 から徴収 する使用 料総額 (P° /月)	使用料金 (P° /月/ 世帯)	PASAR上 水使用世 帯数	PASAR上	1人1日	世帯当た
				水使用量 (m^3 /年)	当たり PASAR上 水使用量 (L /日/人)	り人数 (人/世帯)
1. SANTO NINO	2,505		96			
2. SALVACION	3,060		106			
3. AIRPORT	2,477		49			
4. LIBERTAD ORMOC	2,060	20	103	14,141	80	4.7
5. LILOAN	1,608	20	80	11,501	80	4.9
6. CURVA	3,700	25	148	19,443	80	4.5
7. MARGEN	5,300	20	265	35,569	80	4.6
8. SAN JUAN	2,600					
9. PUERTO BELLO	1,424	8	178	24,401	80	4.7
10. CASILDA	1,336	8	167	19,682	70	4.6
11. CAN UNZO	560	8	70	10,275	80	5.0
12. LIBAS	1,168		146			
13. LAMANOC	1,680		210			
14. MERIDA(Poblacion)	33,840	30	1,128	138,312	80	4.2
15. MACARIO	(Merida Water Districtに含まれる)					
16. LIBJO	1,300		120			
17. CALUNANGAN	3,271		150			
18. BENABAYE	1,216		152			
19. APALE	896		128			
20. TOLINGON	845		109			
21. TUBOD	1,688		209			
22. BILWANG	3,440		423			
23. MATLANG	10,390	10	1,039	145,642	80	4.8
24. BILPHA	1,650	25	66	7,395	65	4.7
25. ISABEL(Poblacion)	81,210	30	2,707	404,674	65	6.3
26. LIBERTAD ISABEL	24,330	30	811	92,348	65	4.8
27. PJHS 2 and 3	4,380	30	146	16,237	65	4.7
28. MAHAYAG	3,030	30	101	11,986	65	5.0
29. TABUNOC	(ISABEL Poblacionに含まれている)					
30. SIMANGAN	18,930	30	631	70,306	65	4.7
合 計	219,894		9,538			

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