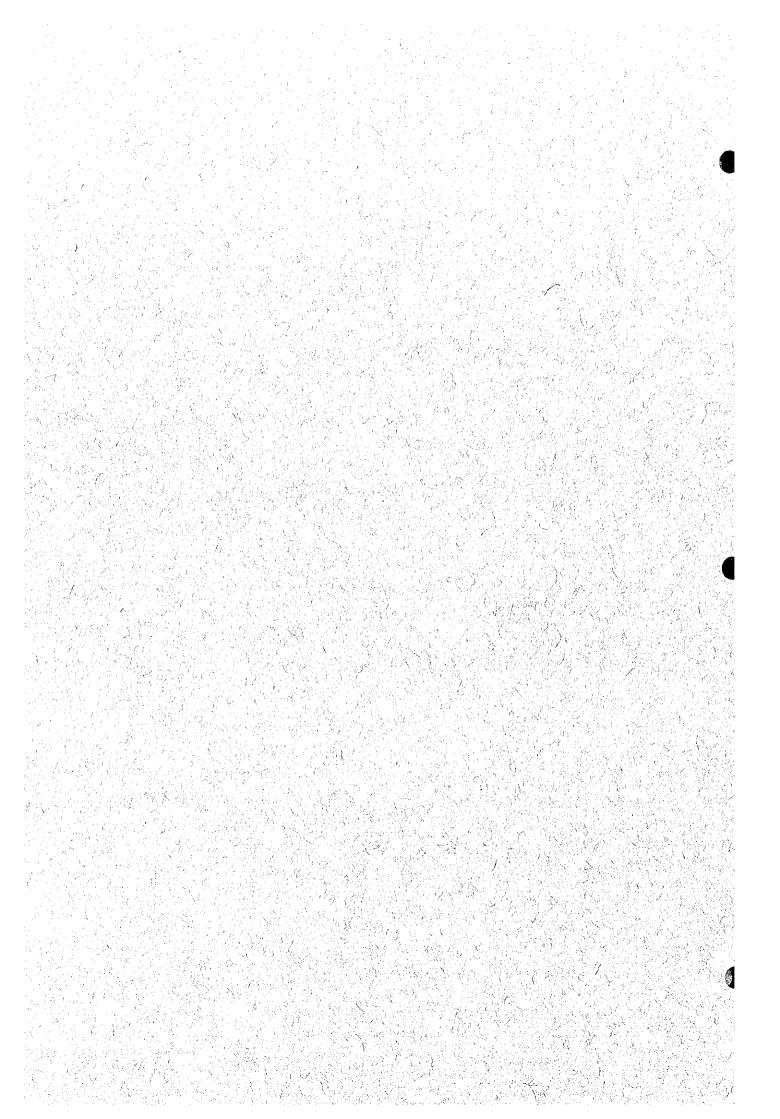


SECTOR IMPLEMENTATION ARRANGEMENTS



9. SECTOR MANAGEMENT FOR MEDIUM-TERM DEVELOPMENT

9.2 Sector Management

Accessing ODA Funds for Level III Systems

When considering sources of financing for new Level III systems or for existing Level III systems that are expanding, LGUs may tap their IRA or they may borrow funds from commercial or ODA institutions. In the case of LGUs that have formed a Water District to operate their system, a ready source of loan funds is the LWUA.

This section discusses how an LGU can access funds from an ODA agency in order to develop its Level III water system. It is presumed that the proposed Level III project has gone through the Project Development process stipulated by the NEDA in Rule 7, Articles 24 - 26 of its IRR of Board Resolution No. 4 (Series of 1994), Clause (G). Specifically, the proposed Level III project must be consistent with the Provincial/City/Municipal Water Supply, Sewerage and Sanitation Sector Plan that has been prepared and annually updated by their respective Planning and Development Office(s). On the basis of these local council approved sector plans, water supply investments will have been identified and developed into a local investment program that includes an appropriate financing plan.

It is worthwhile to reiterate the following NEDA prescriptions regarding project identification:

• "proposed investments shall be developed according to a demand-driven approach that would allow beneficiaries to select from among cost-effective technical options and from financing options. The LGUs may avail of technical assistance from the DILG in the preparation of these project packages (Rule 5)."

"LGU systems shall be constructed on the basis of choosing among technical options that are affordable through the financial resources made available by users, communities and LGUs. The process of determining demand for a particular service delivery shall be concluded through a negotiated agreement between the LGU, water utility and the users, on how the costs will be shared at the town, barangay, and household levels."

"for any Level III service, at least two technical options shall be explored: those of an inter-LGU service delivery organization involving amalgamation of service areas and of single LGU management systems."

(1) Project Initiation Stage

Based on their respective approved water sector plans, the province/municipality proposes a specific Level III water system following the NEDA guidelines on project identification. The provinces and component municipalities may submit their respective project proposals for ODA funding to the DILG. The DILG examines such requests and ensures that they are in conformity with the NEDA's Medium Term Public Investment Program (MTPIP), a master list of projects from which ODA agencies can select specific projects that they can fund. From the MTPIP, the ODA loan agency prepares its own short list of potential province and municipality beneficiaries/ grantees of its loan program. The ODA loan agency then proceeds to conduct its own feasibility study concerning its loan program and discusses this extensively with both the NEDA and the DILG (since the DILG will be the implementing agency for the ODA loan).

While the DILG is designated as the implementing agency for the ODA loan program, a domestic lending institution (e.g. the Development Bank of the Philippines or DBP) can be contracted to administer the loan package and on-lend ODA funds to specific LGUs. [Note that the LWUA has served and continues to serve as a conduit for loans to Water Districts.] Under such a working arrangement, the DILG, the ODA agency, and the domestic lending institution affix their signatures on the ODA program loan documents.

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The DILG now pre-screens LGUs who have expressed intent to borrow funds from the ODA loan facility. Together with consultants from the ODA agency, the DILG conducts briefings on the loan conditions to make sure that the province/municipality fully understands the financial and institutional commitments they have to make once they contract the loan. The respective local councils (e.g. Sanggunians) deliberate whether they are able to and will partake of the loan. Should the Sanggunian decide that they can meet the loan commitments, they submit an official letter of interest (LOI) to the DILG. The DILG, with assistance provided by the ODA agency, evaluates the various LOIs from different LGUs and selects which specific projects will be eligible to borrow from the ODA loan facility.

(2) Project Implementation Stage

At this point, the province/municipality with the Level III system project can now sign the loan documents with the designated local on-lending institution. For the construction of the Level III water system, the LGU itself (or the LGU company formed to undertake the project) is expected to bid out the job to contractors from the private sector. The bidding process should be a transparent one with a public announcement of the bidding, publication of pre-qualified construction companies, and a well-documented decision by the bids and awards committee. During the construction of the Level III water system, the LGU unit tasked to monitor the construction activity should carry out periodic inspections. Final inspection is done upon completion of the construction contract. Throughout the period of the bidding process and actual construction, the DILG can be tapped by the LGU for assistance on various technical and institutional-building matters.

The private sector contractor submits its periodic billings to the LGU. After the necessary inspections are done, the LGU in turn forwards this bill to the domestic lending institution for payment. Given that all documents are in order, the domestic lending institution requests for fund remittance from the ODA agency. Once the funds are remitted, the domestic lending institution settles the bills with the private contractor.

As far as repayment of the loan is concerned, the LGU is responsible for paying the loan since it was the signatory of the loan. Through the operations of the completed Level III water system, the LGU is able to collect the corresponding tariffs from the different consumer households. From these revenues, the LGU re-pays the loan capital and interest to the domestic lending institution, which in turn remits these proceeds to the ODA loan agency. This process is repeated throughout the term of the loan.

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9.4 **Project Management Arrangements**

9.4.1 Project Approach/Strategy

Integration of Waterworks

The province may also initiate the establishment of an Integrated Waterworks (IWW) facility that will merge the management operations of adjoining municipalities, which have existing or proposed Level III water systems. This may not necessarily involve the integration of the physical facilities because of the distance and sparse location of municipalities, but rather only the management aspect of it. Article 8 of the IRR of NEDA Board Resolution No. 4 (Series of 1994), Clause (G) states that: "An LGU may also consider amalgamating or consolidating its system with that of its neighboring LGUs in order to benefit from economies of scale that could expand water supply services to consumers at the lowest possible cost."

The advantages of an IWW facility are as follows:

- Comprehensive water sector planning at the provincial level is facilitated. Investments in developing larger water sources and reservoirs can be considered at the planning stage (in the case of municipalities that are in close proximity with each other).
- The overhead cost involved in maintaining and operating a large waterworks system can be reduced since redundancies in equipment and manpower resources will be eliminated. Municipalities will no longer have to purchase and maintain their own waterworks construction equipment. As a result, there will be greater utilization of such equipment. Engineering and management staff that are currently needed to run the municipal waterworks system can be transferred to other functions.
- The province will be able to hire and retain professional engineering and management staff who will assume greater responsibilities and duties. This will eventually translate to a higher level of service to the communities served by the IWW facility.
- Access to loan funds (from both ODA and commercial sources) for the construction of the waterworks system will be easier since the lending institution will deal with a single entity. Lending institutions prefer such a set-up since the loan evaluation and the corresponding loan monitoring is simpler.
- The IWW facility will be more attractive to more reputable private sector corporations, both local and foreign. The province will be able to generate more interest from private sector players who may want to develop waterworks systems on a BOT/BO/BOO basis or jointly with the LGU. The LGU may also tap these same

private sector players to operate and maintain the existing distribution network under any form of contract – service, management, lease, or concession.

The organizational structure of the IWW should contain, at the least, 5 sections – Administration, Finance, Engineering, Operations & Maintenance, and a Meter Reading and Tariff Collection unit. The Administration and Finance departments will handle matters related to human resources development, financial planning and control, and other related concerns. The Engineering section is expected to concentrate on water system planning and design. The Operations & Maintenance unit will ensure that the water system is operating efficiently (e.g. minimal system losses) and that water quality is always satisfactory by conducting strict monitoring activities. Any construction activity, including the installation of water meters, will be contracted out to the private sector so there will be no need for a large pool of both equipment and manpower. Water samples can be tested in existing private or government laboratories if the IWW will not maintain its own laboratory. The Meter Reading and Tariff Collection unit will be in charge of the all-important task of determining individual household consumption and collecting the corresponding tariff due. The actual conduct of these two activities can be contracted out to the private sector through a service contract.

The financial and operating condition of the IWW facility should be reported periodically to the provincial and municipal governments. In addition, the rates that the IWW will charge consumers will be set under the supervision of a regulatory authority and any proposed changes should first be presented and discussed in a public hearing.

The success of the IWW facility depends on the full support of the local governments of both the province and the component municipalities. Such support shall be in the form of strengthening the management and engineering capabilities of the IWW staff. Any loan needed by the IWW should be endorsed, and if possible guaranteed, by the LGUs concerned. Initial capital requirements can even be sourced from these LGUs.

9.4.2 **Project Implementation Arrangements**

Project Implementation Arrangement and Procedure

Together with the Figures (Figure 9.4.1 and 9.4.2), the following are the project implementation arrangement and procedure for Level I and sanitation from national level to barangay levels, which are designed to encourage active participation of implementers and beneficiaries in undertaking the project.

(1) National Government Level

Project Planning/Launching Workshop as start-up activity will be conducted to introduce and orient the implementers on the Project, define their roles, responsibilities and relationships among them and formulate provincial action plans. The Consultant, upon completion of the training needs assessment and development of appropriate training programs shall conduct capacity enhancement for the WSS-PMO Staff, NGOs, DPWH and DOH representatives. This activity aims to strengthen their competence in technical, managerial, training and community organizing and gender responsiveness. The trained members are responsible to facilitate the organization/reactivation of the PWSU and information dissemination for the provincial officials to secure their support and commitment to the Project. With the assistance from the Consultant, they will enhance the capacity of the PWSU, the MSLT and COs/NGOs in planning, implementing, monitoring and evaluating the project.

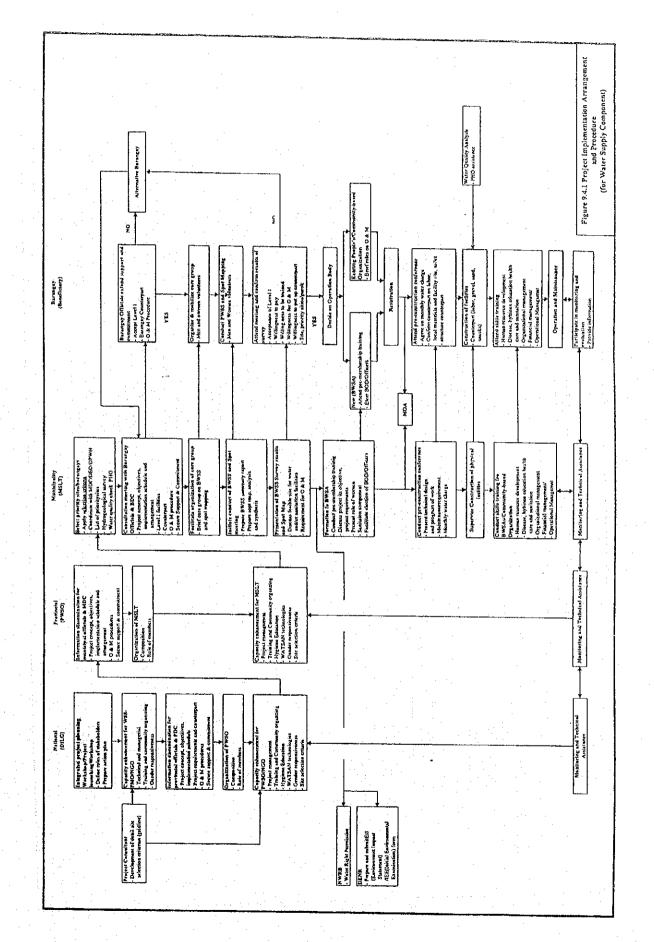
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(2) Local Government Level

The PWSU shall assist the MSLT in each municipality and conduct information dissemination for the municipal officials to orient them on the project and obtain their support and commitment. With the PWSU assistance, the trained MSLT members shall select priority barangays, in coordination with the municipal development council. The Team will be responsible for facilitating barangay activities such as consultation meetings with barangay officials and community members, barangay survey and spot mapping, formation of BWSA/RWSA, pre-construction conference, and supervision of construction. Skills training will be conducted for the operating body in maintaining and managing the project. They shall also provide continuing assistance and monitor the activities of the beneficiaries and status of the project.

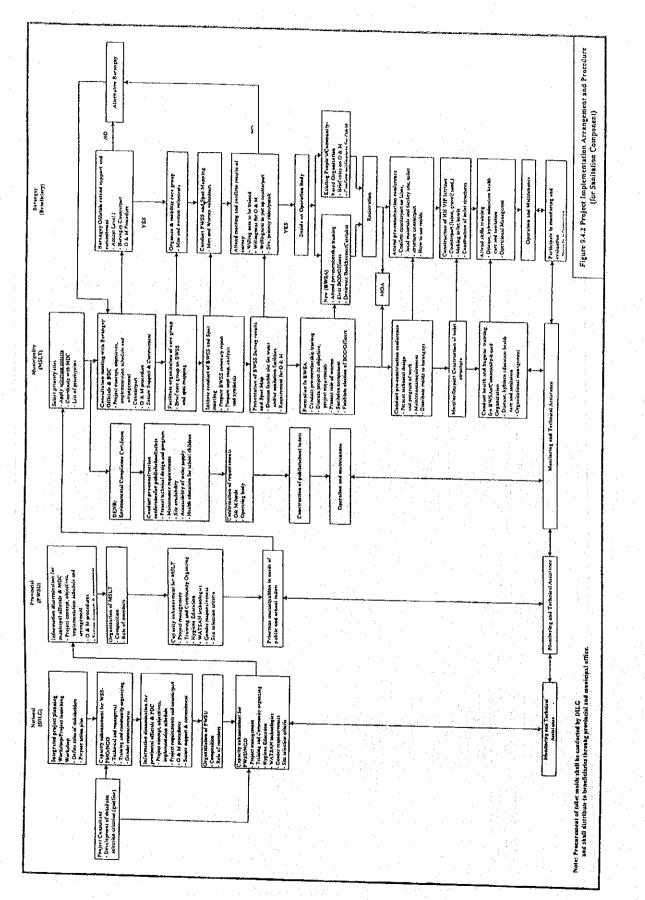
(3) Barangay Level

The barangay officials/development councils shall provide support to the PWSU and MSLT members in conducting activities and mobilizing resources in the barangay. Men and women volunteer shall conduct barangay survey and spot mapping to confirm their demand for the level of service, HH latrines and willingness to operate and maintain the facilities and counterpart. The community members decide on the operating body, tap existing community-based organization or organize a BWSA/RWSA. They have also to agree on the monthly water fees and provide labor and local materials during the construction of facilities. The BOD/Officers, Bookkeeper and Caretaker of the operating body shall attend skills training to develop their competence in performing their jobs. The beneficiaries shall provide information and request assistance from the PWSU/MSLT members, if necessary.



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Proposed Site Selection Criteria

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rangay:	Municipality: P	rovince:	
(1). Require	a grant and a second		
•••			
	Description	Score	
1.	No alternative water source except ground water	OK or Not	
2.	Acceptance of Level I facility	OK or Not	
			•
(2) Technic	al & Socio Economical Requirements 60%		
Item No.	Description	Score	
1.	Water source availability (quality and quantity)	20%	
2.	Incidence of water-borne disease	25%	
3.	Accessibility of well drilling machine to water source	e 15%	
(3) Commun	ity Interest and Involvement	40%	-
Item No.	Description	Score	
1.	Willingness to assume responsibility for operating	and 10%	
	maintenance of the facility/ies		
2.	Willingness to be trained on O&M	5%	· · ·
3.	Willingness to pay for water fees	15%	· ·
4.	Willingness to put up counterpart	10%	
			;
(4) Total S			

Item No.DescriptionScore(1)Required itemsOK or Not(2)Physical requirements

(3) Community interest and involvement

Total Score

Proposed Capacity Enhancement Program

Activity/Participants	Course Content
1. Project	1. Project Concept, Objective, Project requirements,
Planning/Launching	Implementation schedule and arrangement
Workshop	2. Role and responsibility of national government agencies, LGUs
DILG (WSS-PMO)	(province and municipalities and project beneficiaries)
DPWH, DOH, NWRB	3. Action Plan by province
NEDA,DOF, OECF	
2. Capacity Enhancement for	1. Project Concept (objectives, components, requirements,
WSS-PMO, NGOs DOH and	implementation arrangement, O&M systems and procedures,
DPWH	etc.)
	2. Sector Development and existing Policies
	3. Project Planning, Management and Control
	4. Team Building Exercises
	5. Presentation and Facilitating Skills
	6. Methods of Instruction
	7. Community Organization/Community Development
	8. Barangay Surveys and Spot Mapping
	9. Formation of BWSA
	10. Health and Hygiene Education
	11. Technical Training
	- Designing and Construction
	- Water Source Investigation
	12. Skills Training for Operating Body
	- Organizational Management
	- Financial Management
	- Operational Management
	13. Gender Responsiveness
	14. Monitoring and Evaluation
3. Capacity Enhancement for	
LGUs (PWSU, MSLT,	
CO/NGOs)	2. Sector Development and Existing Policies
	3. Project Planning, Management and Control
	4. Team Building and Experiences
	5. Methods of Institution
	6. Presentation and Facilitating Skills
	7. Community Organization/Community Development
	8. Barangay Surveys and Spot Mapping
	9. Formation of BWSA
	10. Health and Hygiene Education
	11. Technical Training
	- Designing and Construction of WATSAN facilities
	- Water source investigation
	12. Skills training for Operating Body
	- Organizational Management
	- Financial Management
	- Operational Management 13. Gender Responsiveness
	13. Gender Responsiveness 14. Monitoring and Evaluation

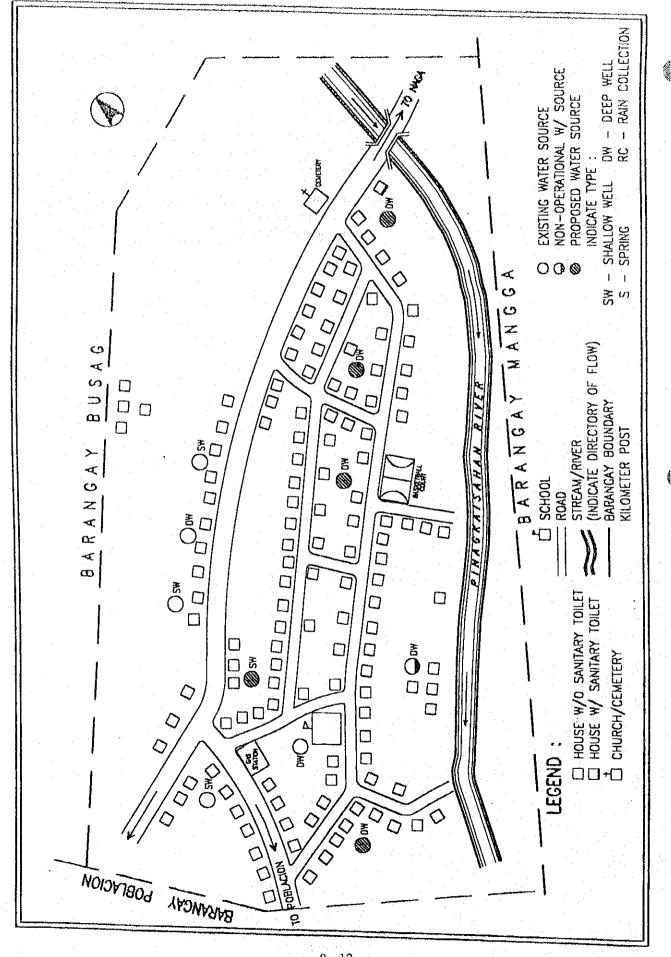
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4. Capacity Enhancement for Operating body	1. Project concept (objectives, components, requirements, implementation arrangement, O&M systems and procedures,
(BOD/Officers,	etc.)
Bookkeeper, Caretakers)	2. Human Resources Development (Team Building, Leadership
	and Value Formation)
	3. Disease, Hygiene, Education, Health Care and Sanitation
	(Excreta, Liquid and Solid Waste Disposal)
	4. Organizational Management (BWSA Management Skills)
	5. Operational Management (Operation, repair and maintenance
	skills)
	6. Financial Management (Simplified Bookkeeping Procedures)
	7. Greater Participation of Women
	8. Monitoring and Evaluation

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SPOT MAP

Instructions for Completing Barangay Map

This sample barangay map is a rough sketch of an entire barangay showing the households, with and without sanitation facilities. The map also shows location, type and condition of existing water facilities and plot location of proposed water sources.

- 1) The map will be used for BWSA planning.
- 2) The map can be used as a planning tool to determine best locations for future water sources.
- 3) The map can also be used to support funding requests for other water and/or sanitation facilities.
- 4) The map may also be entered into a national data base.

To make a map of your barangay, use the legend at the bottom of the sample to indicate information and landmarks. Follow these procedures when completing the map:

- 1) Indicate location of highways and roads, including name and number of road if any.
- 2) Draw approximate boundaries of your barangay and indicate names of adjacent barangays.
- 3) Indicate direction of north line.
- 4) Locate public buildings, cemeteries, schools, or other prominent landmarks.
- 5) Locate natural land features (like rivers, rice field, hills, etc.) and animal pens.
- 6) Show households by drawing a clear square.
- 7) Show all sanitation facilities in households by darkening bottom of square.
- 8) Show water sources location and condition by drawing a clear circle for existing water sources, a half dark circle if source is not in operation and a darkened circle for proposed facility. (Proposed facilities should be at least thirty (30) meters away from the nearest latrine and animal pen).
- 9) Show water source type like deepwell, shallow well, spring, etc. Following legend on the map.
- 10) Next to exiting facilities, write the distance in meters to the nearest latrine or animal pen. Proposed facilities should be at least 30 meters away from the nearest latrine and animal pen.
- 11) Show kilometer posts along the road by drawing a darkened small square.

BWSA Formation

A BWSA (Barangay Waterworks and Sanitation Association) is an organization of water supply and sanitation beneficiaries in a barangay whose objective is to own, operate and maintain the water systems. RA 6716 requires its formation to ensure the provision of adequate, potable and accessible water supply to its members through proper operation and maintenance of the water facilities. The organizational structure of BWSA is quite simple and depends on the number of facilities, need, culture and situation in a particular barangay.

The decision to tap existing community-based organization, merge/consolidate with the existing water association or to form a new association is lodged with the community members. Should the decision is to form a new association as operating body of the facilities, it shall be known as BWSA.

The formation activities of the BWSA are divided into three phases: pre-formation/social preparation, formation and post formation (refer to Proposed Community Management Program attached here for the detailed activities in each phase). During the formation phase, pre-membership training and election of BDO and Officers are held. In this phase, individual member interest and community commitment are manifested through application for membership in the association and signing of Manifesto Resolution (refer to the sample formats attached hereafter).

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Cost		P600	P500
Duration (Day)	0.5	Ś	0.5
Responsible	CO/NGO; PWSU/MSLT; Barangay Officials Development Council	CO/NGO; PWSU/MSLT; Men and Women Volunteers	CO/NGO; PWSU/MSLT; Prospective Users
Barangay Activities	 A. Pre-Formation/Social Preparation Phase 1. Consultation with barangay officials/development councils (First Meeting) 1. The activity aims to obtain the support, commitment and active participation in planning, limplementation and managing the project. They are primarily responsible for the limplementation and prioritization of community needs. The decision on the acceptance of lidentification and barangay counterpart shall emanate from them. 	 Barangay Water Supply and Sanitation Survey/Spot Map A core group composed of men and women volunteers will conduct BWSS and spot 1 mapping. The BWSS results provide information on the prospective users willingness to undertake the responsibility for the O&M as well as provision of counterpart. Spot map will identify the most feasible site for Level I facilities, HH latrines, school and public toilets. 	3. Presentation of survey results and spot map (Second Meeting) The survey results and spot map will be presented to the barangay officials, core group and prospective water users of the facilities. The decisions of the community members will be confirmed in terms of acceptance of Level I water facilities, site of the water facility/ies, willingness to contribute for water fee, operate and maintain the facilities, to be trained and to put up counterpart such as labor, site, and local materials. The results of the survey and spot map are discussed relative to the most feasible site of the water facilities in the barangay as well as the most feasible site of sanitation facilities. The isospuroks will be given priority in the provision of water and sanitation facilities. The sittos/puroks will also decide on the operating body, whether to tap existing community members will also decide on the operating body, whether to tap existing existing water association.

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Proposed Community Management Program

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4	Pre-membership Training and election of BOD and Officers (Third Meeting) A core group will be mobilized to conduct house to house campaign to ensure PWSU/MSLT; membership attendance in the Pre-membership Training. The training is conducted for prospective water users of the facilities. The project concept is discussed including its objectives, importance and role of BWSA and members. Other modules such as women's role, samitation, technical aspects, success factors, etc. are discussed during the pre-membership training.		r1,000
	The board of Directors is elected by the general membership and the Board elects among themselves the officers of the BWSA. Bookkeeper and Caretaker are designated by the President. With the initiative of the newly elected officers, the organizational documents are accomplished.		
ŝ	Meeting of the Board of Directors (Fourth Meeting) The first meeting of the BOD is conducted to discuss in details the duties and PWSU/MSLT, responsibilities of the Board /Officers, how to conduct a meeting, formulate BOD/Officers administrative and operational policies (collection of water fees, dates and place of regular meetings, etc.) and prepare an action plan. The registration procedures and requirements are also discussed.		P1,000
6	RegistrationBOD/OfficersThe operating body (existing community organization or BWSA is registered to give it legal personality to enter into a contractual obligation)BOD/Officers		
F	Pre-construction Conference (Fifth Meeting)CO/NGO;The technical design and program of work for the construction of water and sanitationPWSU/MSIT;facilities are presented to the officers and members of the operating body. Based on thePWSU/MSIT;facilities are presented to the officers and members of the operating body. Based on thePWSU/MSIT;requirements of the facilities is discussed. The proposed estimates on monthly water feesmembersare presented and the beneficiaries must agree among themselves the monthly water feesconstruction and counterpart shall be confirmed.	5	P500

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Construct The operat accordance materials upon com behalf of t over ceret members th	Construction of Water and Sanitation Facilities The operating body shall ensure that the materials delivered are all accounted for and in accordance with the approved specifications in the technical design. Labor, local materials such as gravel and sand, and snacks are provided as counterpart. The prospective users actively participate during construction and test run of water facilities. Upon completion, the facility is turned-over to the operating body. The President, in behalf of the association, shall receive the water systems from the LGUs. Simple turn- over ceremony is held witnessed by barangay officials/leaders. BOD/officers and members the association and P/MSLT members.	CO/NGO; PWSU/MSLT; BOD/Officers members	9	
Skills Tr- Skills tra operation and awar the need managem operation	Skills Training (Sixth Meeting) Skills training aims to build the capacity of project beneficiaries in planning, proper operation, repair and maintenance of water and sanitation facilities. This will also create and awareness among the project beneficiaries on the importance of proper hygiene and the need to main a health environment BOD/officers will be trained on organizational management, bookkeeper on financial management/bookkeeping and caretaker on operational management (operation, maintenance and repair of wells hand-pumps, etc).	CO/NGO; PWSU/MSLT; BOD/Officers Bookkeeper/Caretaker	Ś	P4,400
Health an Health an members facilities	Health and Hygiene Education Health and hygiene education services shall be continuously provided to the community members focusing on the interdependence of safe water supply and sanitary toilet facilities to achieve overall health and environmental benefits.	MSLT/RHW/BHW	Continuous	P1,800
Post Forn Monitori Periodic beneficia provided	 C. Post Formation Phase 11. Monitoring, Evaluation and Technical Assistance 12. Periodic monitoring and evaluation will be conducted in partnership between MSLT and beneficiaries. M&E will Start from project implementation. Technical assistance will be provided, if necessary. 	PWSU/MSLT; BOD/Officers	Continuous	
	TOTAL		23.5	

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Sample Manifest

MANIFESTO RESOLUTION

t
ving shall maintain office at Barangay;
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ship shall be open to household heads (men or women) who shall use lities; and
plution may be amended or repealed by majority vote of all members of n.
action, smooth operation and proper maintenance of the water supply he following:
provide a suitable site for the project;
t

- 3. That we will attend meetings and seminars conducted by PWSU/MSLT for the association;
- 4. That we will provide counterpart needed for the water facilities;
- 5. That we will exercise the following rights:
 - a. Right to vote
 - b. Right to hold elective office
 - c. Right to be informed of the association's affairs
 - d. Right to use the association's facilities

6.

That we will hold an annual meeting every ______, to discuss the association's business and to elect officers for one year.

NOW, THEREFORE, we hereunto set our hands this _____ day of _____, 19____.

PRINTED NAME

SIGNATURE

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18.	· 	

(Name of BWSA)

(Barangay, Municpality)

(Province)

The Board of Directors

Date

Barangay Waterworks and Sanitation Association

Gentlemen:

I hereby apply for membership in ______ Barangay Waterworks and Sanitation Association of avail of its services of providing potable water for domestic use. I pledge to faithfully obey and comply with the rules and regulations which may be promulgated by the Board of Directors.

I hereby further pledge to:

- 1. Attend all meetings which will be called by the BWSA Board of Directors/Officers;
- 2. Attend training/seminars which will be conducted by PWSU/MSLT for BWSA members;
- 3. Pay monthly water fee contributions for operation, repair, maintenance and cost recovery of the facilities as may be prescribed by the Board;
- 4. Observe proper utilization of water and preventive maintenance of facilities as required by the Association;
- 5. Assist in the installation of the water facility by providing labor, local materials and snacks, and
- 6. Help attain the objectives of the Association.

For information about myself and my household, please refer to my information sheet at the back page.

Signature of Applicant Over Name in Print

Right Thumbmark

BWSA Member Information Sheet

A.S.

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11 <u>5</u> 0,	Civil Statu	s;		Sex:		
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Place of Birth:				Date o	f Birth:	
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Name			Age	· · ·	Relation to Me	nber
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Present Expenses for	Water per Month					
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Distance of Water Sc	ource to the House		· .	met	ers	·
	the second s	and the second secon				
I hereby certify that	the information abo	ove are true a	nd correct to t	he best of my	v knowledge.	

Duties and Responsibilities of BOD/Officers and Members

The management of the BWSA rests on the Board of Directors/Officers who are elected by the general membership. The Board clects from among themselves the Officers of the association: President, Vice-President, Treasurer and Secretary. The President designates the Bookkeeper and Caretaker of the BWSA. The duties and responsibilities of the Board/Officers, Bookkeeper and Caretakers are shown below.

- (1) Duties and responsibilities of the Board of Directors
 - Oversee the activities of the BWSA
 - · Formulate policies and procedures to carry out the affairs of the BWSA
 - Elect the BWSA officers
 - Attend all meetings of the Board and the General Assembly
 - Attend training for BOD/Officers conducted by PWSU/MSLT

(2) Duties and responsibilities of the President

- Conduct/Preside over all meetings of the General Assembly and BOD meetings
- Execute policies relative to the management of the Association and the maintenance of the water facility
- Act as arbitrator in settling conflicts among members regarding BWSA operations
- Represent the Association in any activity involving BWSA operations
- Investigate the current condition of the Association and recommend measures for its improvement or solutions to its problems
- Perform such other duties as may be assigned by the Board of Directors
- (3) Duties and responsibilities of the Vice-President

In the event of death, incapacity or refusal of the President to perform higher duties and responsibilities, the Vice-President shall assume the Presidency. He shall perform the duties of the President and such other duties as may be assigned by the BOD.

- (4) Duties and responsibilities of the Secretary
 - Attend all meetings and record the minutes
 - Call meetings in the absence of the President and the Vice-President find preside until a temporary presiding officer is chosen
 - Prepare and send notice to all Association meetings
 - Keep all papers/documents pertinent to the Association
 - Perform such other duties as may be assigned by the Board of Directors

(5) Duties and responsibilities of the Treasurer

Parts.

- Attend all meetings of the Board and the General Assembly
- Take proper custody of all funds and properties of the Association
- Ensure the proper issuance of official receipts for money received by the Association
- Ensure that all expenses are authorized by the Board and covered by official receipts
- Deposit all funds of the Association in a bank designated by the Board; and
- Produce periodic reports and account reconciliations as prescribed
- · Perform such other duties as may be assigned by the Board of Directors
- (6) Duties and responsibilities of Bookkeeper
 - Keep the financial records of the Association;
 - Collect water fee contributions from and issue receipts to user members;
 - Remit collected water contributions to the BWSA treasurer;
 - Submit a quarterly financial status report to the Board of Directors or as often as the Board may require;
 - Attend BOD meetings and BWSA training/activities conducted by the PWSU/MSLT
 - Perform such other duties as may be assigned by the Board of Directors
- 7) Duties and responsibilities of Caretaker
 - Remind the members of the proper use of the facility
 - Ensure that the water facility is in good operating condition
 - Keep the record of the operation and maintenance of the water facility
 - Report to the Board of Directors (BOD) any damaged or repair needs of the facility
 - Perform minor repairs of the water facility
 - Assist in the collection of water be contributions
 - Attend meetings of the Board as may be required
 - · Attend skills training on operation and maintenance conducted by the PWSU/MSLT
 - Perform such other duties as may be assigned by the Board of Directors
- (8) Duties and responsibilities of Members
 - Pay monthly water fee contribution;
 - Attend meetings and training activities designed for members;
 - Observe rules and regulations and policies approved by the BOD/Officers;
 - Remind other water users to use the facility properly;
 - Keep the premises of the water facility clean, sanitary and free from excess water
 - which may cause contamination of the water source; and
 - Adopt proper health and sanitation practices.

Procedures for BWSA Financial Operations

Bookkeeping records an organization's financial transactions involving the receipt and expenditure of money in an organization. The organization may be a small business or large corporation. It may be government or a non-government organization. Regardless of the size of the organization, it provides a standard method for recording and reporting financial transactions of all kinds. The information obtained from accurate and timely bookkceping provides timely information on the financial health of the operation.

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The information contained herein will enable the BWSA bookkeepers to record financial transactions and prepare financial reports. The manual presents the overall picture, through the General Accounting Plan procedures. A step-by-step guide follows the General Accounting Plan through all the transactions, entries and reports. Each transactions, entry and report has a corresponding form. Each form is presented with explanations on its function and how it relates to the other forms. Instructions are provided line-by-line for a clear understanding.

(1) BWSA Business Operation

The BWSA business operation is simple. Funds are generated through water fees. Although there may be other sources of income, user fees will be the main source of income. Money is spent to maintain the barangay water system and other properties owned by the association. Other funds spent include expenses for administration, parts and supplies.

With only a few sources of income and expenses, financial transaction entries can be made quickly as they occur. If transactions pile up, even a simple operation can become very complicated. It is recommended that all transactions be recorded daily. If this is done regularly, periodic reports can be prepared quickly and accurately.

(2) Maintenance and Custody of Documents and Records

Safekeeping the books of accounts, related records, accounting forms and reports is a major responsibility of the bookkeeper. Accounting forms used as the basis for recording should be arranged and filed separately in sequence. All records and documents should be locked up and access should be limited to authorized BWSA officers and personnel.

The BWSA officers should agree on the reports to be prepared, who received the reports and how frequently. It is recommended that certain records be maintained and certain

reports be complied. It is up to the BWSA officers to determine how often these reports are to be made and if additional reports are necessary. Some larger BWSAs may need monthly reports. Smaller BWSAs may only require quarterly reports.

(3) General Accounting Plan (GAP)

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The flow of accounting and reporting is shown in the General Accounting Plan, Figure 1. The GAP will guide users through this section as each procedure is explained. The GAP contains four columns of boxes. Columns are headed:

Transactions - consisting of cash and non-cash transactions

state the Document- for recording different types of financial transactions

Eq. (a) ec Books - to maintain a record of financial transactions

Reports - to summarize all financial transactions for given period.

(4) Transaction Defined

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m aThe BWSA financial transactions are classified as:

Cash Transactions

- Cash-In (cash receipts)

ars neCash Out (cash disbursements)

Non-Cash Transactions

Money, incoming and outgoing, is classified as cash transactions. The GAP shows two kinds of cash transactions, cash-in (cash receipts) and cash-out (disbursement). There are also non-cash transactions, which document money owed to the BWSA or money that the BWSA owes.

1) Documents for Cash Transactions

The Official Receipt (OR), (See Figure 2) and the Voucher (See Figure 3) are the source documents for cash transactions. ORs and vouchers are called source document because they initiate the bookkeeping process.

Each time a person gives money or its equivalent to the BWSA, an OR is issued to the person. Each time the BWSA pays money to a person, a voucher is completed to show that it is an authorized expenditure. The voucher also records to whom the money was given and for what purpose.

Both the OR and voucher are numbered and all numbered documents should be accounted-for. This means that if an OR or a voucher has been incorrectly filled out, it must be kept for the record.

a)

- The OR records all money received BWSA and must specify:
- The date funds are actually received
- The name and address of the person paying the money
- The amount received, both in words and in figures
- An explanation or purpose of the payment
- Confirmation of receipt as shown by the authorized collector's signature, usually the bookkeeper
- The billing form number, if money is for payment of water fees
- b) The voucher records all money paid out by the BWSA. Each numbered voucher must specify:
 - The date money is actually paid
 - The name and address of the person receiving the money
 - The total amount of money paid, is words and in figures
 - Details of payment, including invoice number
 - Signature of person authorized to approve payment
 - Confirmation of receipt as shown by the authorized collector's signature, usually the bookkeeper, of the person paying money
 - Signature of person receiving the money and date received
- 2) Document for Non-Cash Transactions

The sources for recording non-cash transactions are the billing form and the invoices. The billing form documents money that is owed to the BWSA. Invoices or statements of account are documents made by others showing money owed by the BWSA. These are transactions, which do not involve cash collection or payments, and therefore, are not to be recorded in the Cash Record Book.

a) The Billing Form (See Figure 4) is used to notify water consumers of the fees owed to the BWSA covering a certain billing period. Billing forms may be made monthly or quarterly as the Association decides. Billing forms must specify:

- List of services rendered
- The name and address of the person being billed
- Period covered by this bill, beginning and ending dates
- The total amount of money owed
- Date of billing

- Date the bill should be paid
- Official signature, usually the bookkeeper

Unaccounted Water Fees are examples of non-cash transactions which should be recorded in the Receivable Book.

- b) The Invoice or Statement of Account (See Figure 5) is a document prepared by the seller and presented to the BWSA showing money owed to the seller by the BWSA. Invoices usually contain:
 - An invoice number
 - The person or company sending the invoice
 - The name of the BWSA that owes the money
 - Particulars of goods or service provided
 - The breakdown of money owed and total amount due
 - A payment due date
 - Name or signature of the person requesting payment

Unpaid invoices on repair and maintenance and other unpaid expenses, such as honoraria are recorded in the Payable Book.

(5) Book of Accounts

The book of account are basic records used to record all financial transactions. Three books of accounts are maintained as described below.

1) Cash Record Book

The Cash Record Book is used to record all cash incoming and out-going transactions. The OR is recorded in the Credit column (Money Received). The voucher is recorded in the Debit Column (Money Disbursed). All entries are recorded by date, including all cancelled forms, properly notes. After each credit or debit entry, the amount is added or subtracted from the Daily Balance. At the end of the month, the entries form the bases for preparing the Statement of Operation and the Cash Position Statement.

2) Receivable Book

Unaccounted account from the members and outside parties are recorded in the Receivable Book (See Figure 7). This book shows the transaction date, the billing number, the household head, the amount and explanation or remarks about the

nature/condition of the account.

3) Payable Book

Unpaid accounts on the expenses incurred by the BWSA such as salaries or wages, repair and maintenance and other expenses are recorded in the Payable Book (See Figure 8). This book shows the transaction date, the payee, the nature/explanation of the unpaid account and the amount.

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(6) Financial Reports

The BWSA reports are usually prepared monthly or quarterly. The financial reports are prepared to inform the BWSA financial members of the Association's financial status. In preparing the BWSA financial reports, the bookkeeper reviews all source documents supporting the transaction to countercheck the amount appearing in the books. The recorded transactions should be summarized and arranged chronologically to produce a report easily understood by BWSA officers and members.

1) Statement of Operations

The statement of Operations (See Figure 9) is prepared monthly to record the income and expenses incurred by the Association in its operation during the period. The statement shows the revenues earned, the operating expenses incurred and the income or loss as a result of operation.

2) Cash Position Statement

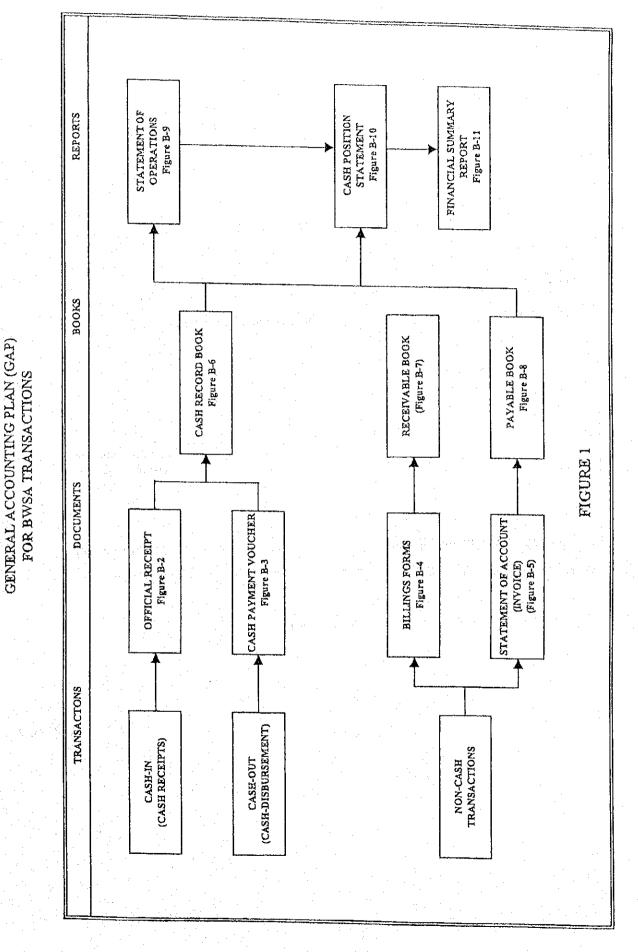
The sources of information when preparing the Cash Position Statement (See Figure 10) are the cash record books and the statement of operations. The report is prepared to determine if the Association can cover its operating expenses. This statement shows the beginning cash balance, the cash receipts for the period, the cash disbursement, and the cash balance ending for the period.

3) Financial Summary Report (Annual Report)

The financial Summary Report (See Figure 11) is prepared to summarize the periodic reports prepared during the year and the supporting schedules.

(7) Bookkeeping Procedures

A step-by-step review of all BWSA transactions can be accomplished by following the accounting entries and reports.



CIVITY

10 (J.)

OFFICIAL RECEIPT BWSA	OR. NO.	
Received from		
the sum of	()	
n payment of		[
(ror pa	yment of water fees only).	
	Treasurer/Collect	or
	(Bookkeeper)	OI IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Note: D- AN TAL		
Note: Print Name Below Signature	(IN TRIPLICAT)	č)
mplete Official Receipt in Triplicate		
icial Receipt must be issued for all payments received by the Bookkee		
		ELCIIDE 2
		FIGURE 2
9 - 3	0	

CASH PAYMENT VOUCHER		CPV No. Date:	
	<u> </u>	Date.	
		. · ·	
Paid to :			
Address :			
In the sum of :		(P	· · · · · · · · · · · · · · · · · · ·
			el di terta di e
PARTICULA	RS		MOUNT
Approved By:		Received from	
		The amount of	
			· · · · · · · · · · · · · · · · · · ·
		As payment for the	above described.
		Received By	· · · · · · · · · · · · · · · · · · ·
		Date Received	
 A second sec second second sec		V	DUCHER
		(IN 1	TRIPLICATE)
Note: Print Name Below Signature	3	(~	
Note: Print Name Below Signature	.	·····	
ch time a disbursement is made, a cash payment			

•

10 I.

Contra A

		Nan	ne of BWSA	· · · · · · · · · · · · · · · · · · ·	·			
		Baranga	y, Municipal	ity				
		P	rovince					
	÷	BILI	ING FOM					
	. •							
			for				1. A.	
		WATER C	CONSUMPT	TON		· · ·	·	
	an a							
Name of Men	ıber				·	19 A.		ŀ
				·····			÷ .	
Address:			· · · · · · · · · · · · · · · · · · ·		<u></u>	······	· · · ·	
and the second	and the second	and the second						1
				No.		· · · ·		
				No		· · · · · ·		
	PE	RIOD COVE	XED	No			· · · ·	
FRO	M	RIOD COVE	TO		AMOU	NT		
FRO MONTH	PE M DAY	RIOD COVE		No		 NT		
	M		TO			NT		
	M		TO			NT		
	M		TO			NT		
MONTH	DAY		TO DAY	YEAR	AMOU	NT		
	DAY		TO DAY		AMOU	NT		
MONTH Date of Billin	<u>DAY</u>	MONTH	TO DAY Please pay	YEAR On or Befo	AMOU	NT		
MONTH	<u>DAY</u>	MONTH	TO DAY Please pay	YEAR On or Befo	AMOU	NT		
MONTH Date of Billin	<u>DAY</u>	MONTH	TO DAY Please pay	YEAR On or Befo	AMOU	NT		
MONTH Date of Billin	<u>DAY</u>	MONTH	TO DAY Please pay	YEAR YOn or Befo	AMOU			
MONTH Date of Billin	<u>DAY</u>	MONTH	TO DAY Please pay	YEAR YOn or Befo	AMOU			

Billing must be prepared and sent to all BWSA members for their monthly dues as a member of their monthly obligation to the Association.

FIGURE 4

ALLER

Date: _.__ Invoice # _____

INVOICE

Sold to:

ITEM	NO.	UNIT PRICE	PRICE
TOTAL			ħ

102201

Acres

1993

Received By: (Print Name below Signature)

FIGURE 5

BWSA

CASH RECORD BOOK COLLECTION/DISBURSEMENT Month: _____Year: _____

DATE	PARTICULARS	CREDIT (Money Received)	DEBIT (Money Disbutsed)	DAILY BALANCE
· · · · · · · · · · · ·	•			
			· · ·	
	· · ·			
	·			

This book records all cash transactions (collection/disbursements) made by the BWSA, and calculates a daily balance.

FIGURE 6

Name of BWSA

Barangay, Municipality

Province

RECEIVABLE BOOK

DATE	BILLING FORM NO.	HOUSEHOLD HEAD (Family Name)	AMOUNT DUE	REMARKS	
	· · ·		н н. Н		
· · · ·					
. *					
				2	
· ·					
			ана (1997) Стала (1997)		
•				i .	
1					

This form records all accounts due to the Association

FIGURE 7

BWSA

Barangay, Municipality

Province

PAYABLE BOOK

DATE	DATE INVOICE NO. AND DATE		E INVOICE NO. AND DATE CREDITOR EXPLANATION		EDITOR EXPLANATION AMOUNDUE		VOUCHER NO. DATE PAI
· · · · · ·							
· · ·							
				n an			
		·					

This form records all incoming invoices that have not been paid by the Association.

FIGURE 8

Name of BWSA

Barangay, Municipality

Province

STATEMENT OF OPERATIONS

For the Month

Revenues:					
	Water Fees			₽	
•	Others (Specify)			· . · ·	
e e Secondaria Secondaria	Total Revenues			₽	
	The second s				
Operating Exp	enses:				
	Salaries			<u>.</u> р	an a
	Supplies			· •	
•	Repair and Maintenance		· · · · ·	ter et a	
	Others (Specify)	· · · · · · · · · · · · · · · · · · ·		1. s	· · · · · · · · · · · · · · · · · · ·
	Total Operating Expenses			₽	

Net Income/Loss

Prepared By:

100

Certified true and correct:

BWSA Treasurer

Note: Print Name below signature

At the end of each month, the bookkeeper prepares the Statement of Operations for the previous month.

Date Prepared:

n

Date Certified:

FIGURE 9

	·		
	Name of BWSA		
· · · · · · · · · · · · · · · · · · ·			
: <u> </u>	Barangay, Municipality		
	Province		
CASH For the	POSITION STATEMENT		
Revenues:			
Water Fees	-	₽	
Contribution			
Others (Specify)			
Total Revenues		₽	
		- · ·	
Land Oracle D			
Less: Operating Expenses: Salaries			· · ·
Supplies		4	v
Repair and Maintenanc		·	
Others (Specify)	c	· · · · · · · · · · · · · · · · · · ·	
Ould's (Specify)		an an an an an	
Total Operating Expension	58 <u>.</u>	₽	
		-	
Cash Balance, During the Period		₽	
Add: Cash Balance, Beginning		<u>₽</u>	
Cash Balance, Ending		<u>₽</u>	
Prepared By:		Date Prep	ared:

BWSA Bookkeeper

Note: Print Name below signature

Cash Position Statement summarizes the Association's transactions for the month ended. The Bookkeeper fills up this form every end of the month.

FIGURE 10

Name	of	BW	'SA
------	----	----	-----

Barangay, Municipality

Province

FINANCIAL SUMMARY REPORT

Year End

 Financial Results

 1. Total Revenues
 P

 2. Total Expenditures
 P

 3. Total Cash on Hand
 P

 4. Total Cash in Bank
 P

 5. Total Accounts Receivable
 P

 6. Total Accounts Payable
 P

Findings/Recommendations:

I....

Ш,

Prepared By:

Date Prepared:

BWSA Bookkeeper

Note: Print Name below signature

Financial summary report is made after a year of operation. It provides information to show whether the association profited or not.

FIGURE 11

		Form	•
	PROPO	SED LEVEL I PROJECT DATA	
	Notice : This form shall	be accomplished upon instruction on PST/PWSD	
NOI	1.1 Barangay/Sitio	1.3 Province	
LOCATION	1.2 Municipality	1.4 Region	
	2.1 Total Community/Barangay Population	22.0	
DATA	,	2.3 Proposed Population to be Served	-
POP.	2.2 Total Number of Households	2.4 Proposed Number of Households to be Served	
<u>ш</u>	3.1 Ownership :		
NELL SIT	Public I	3.3 Location:	
ON THE	3.2 Description :		
INFORMATION ON THE WELL SITE		3.4 Danor (If Private Lot):	
necessary)	4.1 Type of Point Source:	.3 For wells : in. orm. Casing diameter in. orm. m. Casing depth ft. orm. water level Well ft. orm. Well capacity/yield gpm, orm.	
arate sheets if ner		well capacity/yield gpm. orin. .4 For Springs : Capacity/yield gpm. orlps. Approx. elevation above or below	
(Use separate sheets if	4.2 Ownership :	Service Area ft. or m Location	· · · · ·
sn)	Public	Inside of service area Outside of service area Approximate distance from center	
1	Private	of service areakm.	
	F	repared by :	
<u> </u>		Municipal Liason Staff Date	-031

Table 9.4.1 Format for Level I Project Data

			n	Form
			Barangay	Municipality
	FEASIBILITY STUDY			
	(Level II)		Province	
	Notice : This form shall be accomplished upon instruction	6.1. 71777/00100 P	i tornice	Region
	tour this term shan be accomprised upon instruction	m of the PST/PWSO.		
		PROJEC	T SUMMARY	
¥	1. Present Population	2. Design Population	1 OUNIMANI	3. Number of Households
DAT				
NOL				
LAJ				
POPULATION DATA				6. Number of Faucets
	4. Type of Source	5. Type of System	· · · · · · · · · · · · · · · · · · ·	
	Spring	· · · · ·	1 	
ATA	Well	Gravity	Pumped	
L D	Surface Water	7. Pump Horsepower		8. Pumping Time
NIC N	Surface Water		P	Hours per Day
TECHNICAL DATA				
Ë	9. Total Average Daily Demand	10. Storage Tank Cap		11. Pump Discharge Capacity
	Liters	L	iters	LPS
•	12. Total System Cost	13. Maximum Loan A	mount	14. Interest Rate
	P	P		
			<u></u>	
¥.	15. Local Equity	16. Funding Cost per	Household	17. Repayment Period (months)
LYD	p			
IAL				
FINANCIAL DATA	18. Type of Local Equity	· ·		
FIN	Cash	Labor	Materials	s Others,
		· · · · · · · · · · · · · · · · · · ·	ting and the second sec	
	19. Total Monthly Expense		20. Monthly Fee Per I	Jousehold
	P		p	
			· ·	
	I Survey Form	5 Design of Pipe	Lines 9A F	ittings Schedule 12 Financial Analysis
ŒS	2 Map of the Project Area	6 Design of Rese		· · · · · · · · · · · · · · · · · · ·
ANNEXES	3 Design Criteria and	and Pump		
NA.	Basic Design Data	7 Detailed Desig	· · · · · · · · · · · · · · · · · · ·	ittings Schedule Equity
]	4 Schematic Diagram of	· · · · · · · · · · · · · · · · ·	- <u></u>	ill of Materials
		8 Pipes Schedule	L 11 Co	ost Summary
Pre	the System		Endament	
			Endorsed by :	
	Municipal Liason Staff	Date	PST/PWSO (Coordinator Date
L	<u>and a second seco</u>		1	

Table 9.4.2 Format for Level II Feasibility Study

9

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AN CON

SURVEY FORM Rural Water Supply Project

at the

	Rural	Water Supply Project	
A. LOCAT	 A second sec second second sec		
		· · · ·	
	Barangay	Province	
	Municipality :	Region Number	
		Region Muniter	•
B. GENER.	AL INFORMATION		
	1		
	1. Population		
	2. Number of households		
	3. Distance from poblacion	·	kilometers
	4. Availability of electricity	Yes	No
	5. Distance form electric line		kilometers
		p	
	J ar paorie	· · · · · · · · · · · · · · · · · · ·	
	transportation 8. Main livelihood of residents		
	o. Iviam inventiood of residents	Land transport	
		Water transport	
		Farming	tering and the second secon
		Industry	Others
C. TECHNI	ICAL INFORMATION	Fishing	
			and a second
• • •	1. Are there reliable sources of potable wa	iter?	
	Yes	No	
· .			
	a) For Wells		
	Well capacity :	lps	
	Casing diameter :		
	Casing depth		
	Water level from top of well	:	_
	Location :	Within service	arca
		Outside	M. from service area
and the second second			
	b) For Springs		
	Average dry season flow	· · · · · · · · · · · · · · · · · · ·	GPM LPS
	Relative elevation of spring		
	a	an 🛄 a ft. fair a	m. above service area
а а	b	ft.	m. below service area
	Location :	Within service an	(ea
			
		U Outside	m. from service area

2.	Are there wa donated for	ater supply sy this project fr	stem materials om other sour	and equipmen	t (pumps, pi	ipes, fittings) which can be
					🗌 No		
	For pumps	: Туре :		Power :		HP	
	For pipes	:	□ Galvaniz □ Others, s	ed Iron pecify	-] PVC	
3.	Is there an e	existing water	tank that can l	oe used?		🗌 Yes	🗌 No
	Туре :	🗋 Steel		C Reinforce	d Concrete		alaan ar ta
	Capacity :		· · · ·	🔲 Gallons	E	🗌 Cubic M	eters
	Location:	(Please indi	cate in the ma	p of the project	arca)		
	Relative ele	vation with re	spect to service	ce area	L t	t [m.
4.	Are there of Location :			may be erected e map of the pro		TYes	- No
	Relative ele	vation with re	spect to servi	ce area	· 🗖 f	ît [□ m.
5.	Does the ba	irrio have skil	led personnel?			Yes	□ No
· · ·	If yes, how	v many?	Estima	ted Number			
	· · · ·	Plumbers Masons Carpenters	: : :				
		Others	:				
	If no, are t	there compete Plumbing c Tank fabric	ontractor :	near the area?			
	Are there s	uppliers of ma	uterials (pump	s, pipes, fittings No) in the mu	nicipality?	
• .	tional and a second second Second second s					 	

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D. FINANCIAL INFORMATION

W	hat can the barangay p	rovide as loca					
	Cash :	1	р				
	Labor :		· · · · · · · · · · · · · · · · · · ·				
	Materials :		Sand	man-days		and the second sec	
			Gravel		cu, m.		
				;	cu. m.		•
			Cement		bags		
2. H	ave the needs have the		Others, spec			en de la companya de La companya de la comp	
	ave me people been mi		current financ	ing policies for Level II	systems, particu	larly	
U)	e monthly fees required	i to repay toat	a & provide to	or O & M?			
			de la companya de la		· .		
		L] Yes	1. A.	No No			
3. н	(our much are the meanly				· . · ·		
). 11	low much are the people	e willing to pa	iy per househo	old per month as a water	fee?		
	Below P 6.00			and a second	· · · · · · · · · · · · · · · · · · ·		
			P 10.00 -				
	P 6.00 - 10.00		15.00 -	20.00 🔲 Speci	fy :		
				n el lan gradetta de la	s, set in	an ta 201 Anna Anna Anna Anna Anna Anna Anna Anna	
I. A	verage income per hou	sehold	₽	per month			
			•				
ISTIT	there an existing assoc	iation who is	ready, willing	; and able to manage the	system		
	there an existing assoc Yes If yes, please specify.	iation who is		; and able to manage the	system		
l. Is	L Yes If yes, please specify.		□ No	an an taona an ann an Air a Tha an Air an A	system		
I. Is 2. A	LJ Yes If yes, please specify. The people willing to join		□ No	rate and manage a			
I. Is 2. A	L Yes If yes, please specify.		□ No	an an taona an ann an Air a Tha an Air an A	system		
I. Is 2. A W	L Yes If yes, please specify. The people willing to join vater supply system?	n a water asso	No No	rate and manage a	□ No		
I. Is 2. A W	LJ Yes If yes, please specify. The people willing to join	n a water asso	No No	rate and manage a		olds.	
1. Is 2. A W 3. H	L Yes If yes, please specify. The people willing to join vater supply system? Now many households a	n a water asso re willing to t	No ociation to ope	rate and manage a	🗋 No househo	olds.	
1. Is 2. A w 3. H 4. N	L Yes If yes, please specify. The people willing to join vater supply system? Now many households a lame at least three (3) he	n a water asso re willing to t	No ociation to ope	rate and manage a	🗋 No househo	olds.	
1. Is 2. A w 3. H 4. N	L Yes If yes, please specify. The people willing to join vater supply system? Now many households a	n a water asso re willing to t	No ociation to ope	rate and manage a	🗋 No househo	olds.	
1. Is 2. A w 3. H 4. N	LJ Yes If yes, please specify. The people willing to join vater supply system? Now many households a lame at least three (3) lease f required.	n a water asso re willing to t	No ociation to ope	Tate and manage a Tyes	🗋 No househo	olds.	· · · · · · · · · · · · · · · · · · ·
1. Is 2. A w 3. H 4. N	L Yes If yes, please specify. The people willing to join vater supply system? Now many households a lame at least three (3) he	n a water asso re willing to t	No ociation to ope	rate and manage a	🗋 No househo	olds.	· · · · · · · · · · · · · · · · · · ·
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F. MAP OF THE AREA

Please attach map of the area proposed to be served. Indicate location of houses, buildings and other structures to be served including roads, the water source(s) and possible locations of storage tanks. The map should preferably be drawn to scale.

Important : If map cannot be drawn to scale, indicate distance measurements between important points along roads, or possible routes of distribution pipes with households properly indicated. For rolling terrain, indicate elevation differences between measurement points.

G REMARKS :

Annex 2 MAP OF THE PROJECT AREA

Rural Water Supply Project

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DESIGN CRITERIA AND BASIC DESIGN DATA Rural Water Supply Project

I. Design Criteria

1997 A

1. Design Period : 5 years 2. Population Annual Growth : 3% Average Household Size : 6 persons/HH **Design Population** : Present Population x 1.16 Per Capita Water Consumption 3. Level II : 60 lpcd Level II with garden : 75 lpcd Level III : 100 lpcd 4. Water Demand Average Day Demand : Design Population X Per Capita Consumption Maximum Day Demand : 1.3 X Average Day Demand Maximum Hour Demand : 2.5 X Average Day Demand 5. Pump Operation **Punping Hours** : 8 -15 hours Pumping Rate : Maximum Day Demand/PumpingHrs. = б. Storage Capacity : 1/4 of Average Day Demand 7. System Pressure : 5 - 10 psi at faucet Households Served Per Faucet 8. : 4 - 6 HH II. Basic Design Data 1. Present Population Design Population (Present Population X 1.16) 2. Average Day Demand: 3. Х (Per Capita Consumption) (Design Pop.) 4. Maximum Day Demand: 1.3 X (Average Day Demand)

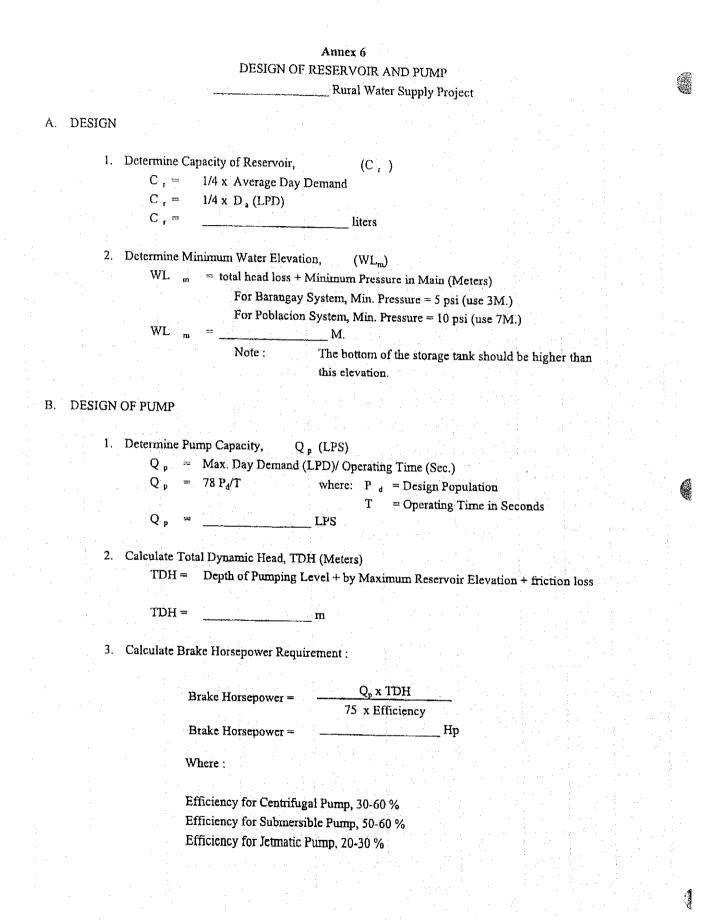
SCHEMATIC DIAGRAM OF THE SYSTEM Rural Water Supply Project

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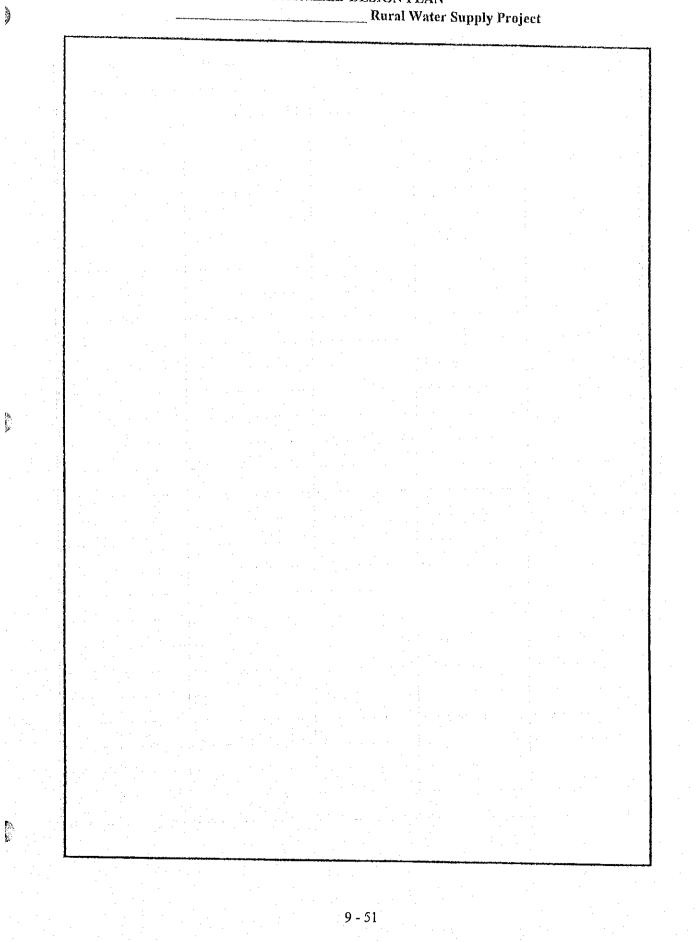
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DESIGN OF PIPE LINES ______ Rural Water Supply Project

SECTION (1)	From (2)	DES To (3)	SECTION LENGTH(M) (4)	HOUSEHOLD SERVED (5)	PEAKFLOW (LPS) (6)	PIPE DIA (MM) (7)	HEAD LOSS PER 100M (8)	ACTUAL HEADLOSS (9)	REMARE (10)
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Annex 7 DETAILED DESIGN PLAN Rural Water Supply Project



Annex 8
PIPES SCHEDULE
Rural Water Supply Project

PIPE (1)	DIAMETER mm	SECTION LENGTH (2) m	REQUIRED PIPES (3)	ACTUAL NO. OF PIPES (4)	ADDITIONAL PIPES (5)
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Annex 9A FITTINGS SCHEDULE (G.I. PIPES) Rural Water Supply Project

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Annez 9B FITTINGS SCHEDULE (PVC PIPES) Rural Water Supply Project

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Annex 10
BILL OF MATERIALS

Rural Water Supply Project

QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
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Annex 11 COST SUMMARY Rural Water Supply Project

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I. ESTIMATED COST OF THE SYSTEM

- 1. a) Cost of Pipes
 - b) Cost of Fittings
 - Total Cost of Pipes and Fittings
- 2. Cost of Reservoir
- 3. Cost of Pump
- 4. Labor Cost
 - a) 10% of Pipes & Fittings (For G.I. Pipes)
 - b) 25% of Pipes & Fittings (For PVC Pipes)
- 5. Cost of Freight and Handling
- 6. Contingencies 5% (Pipes & Fittings Labor)

Total Cost of the System

For gravity system, omit cost of pump.

II. FINANCIAL DATA

- 1. Total Cost of the System
- 2. Local Equity
- 3. Amount of Loan

Annex 12 FINANCIAL ANALYSIS

Rural Water Supply Project

A. RELEVANT DATA

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	1. Pumping Hours	•		hrs.		
	2. Pump Horsepower	·		HP		
	3. Cost/KWH	: P				·
	4. Pump Cost	: ₽	· · · ·			
	5 Amount of Loan	: ₽		— .		ч.
	6. Loan Terms	· · · · · · · · · · · · · · · · · · ·		_ % (interest p	er annum)	
	:		- 	_ years (Repay		1
	7. Number of Households		· · · · ·		nent i chouj	÷.,
·						
Β.	COMPUTATION OF MONTHLY I	EXPENSES (Omit nor	1-applicable ite	ms)	
	1. Operations	· ·				
	a. Salaries		x		= P	
	b. Office Supplies		x		1 <u>-</u> = P	
	c. Power		^		_	
	d. Chemical		x			
	e. Miscellaneous		—		- P	· · · · · · · · · · · · · · · · · · ·
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	2. Asset Replacement					1
	a. Pump		· . /		= P	
				Life (mos.)		
	b. Pipelines			· · · · · · · · · · · · · · · · · · ·	= P	
	e de la superior de la superior			Life (mos.)	- <u></u>	
	c. Tank	·····	/		= P	
		··· .		Life (mos.)		
	d. Others		/		_ = P	
	_			Life (mos.)		
	3. Amortization		x		= P	
		(CRF)		(Loan Amt.)		
	4. Maintenance (2% of Car	otal Equipt.co		ally)		
	.02 X		/12	•	= P	······
	6. Total Monthly Expenses			· · ·	. = P	
Ċ	COMPUTATION OF WATER FEE	,	· · · · ·			
	COM OTATION OF WATER FEE	5				
	Monthly Water Fee Per Household	1				
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	(Total Monthly I	Expenses)	(No. o	f HH)		

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Association Presid	ent Date	Municipa	l Sector Liason	Date

Annex 13 AVAILABILITY OF LOCAL EQUITY

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9.5 Community Development

9.5.2 CD Structure and Linkages

Responsibilities and Qualifications of a CO/CD Worker

1. Tasks of a CD/CO Worker

(a) As Facilitator

- > Enhances individual and group strengths and helps minimize weaknesses and conflicts;
- Heightens community unity; and,
- > Assists individuals and groups to respond to common interests.

(b) As Trainor and Educator

- > Discerns educational needs of people;
- > Helps in consciousness-raising to enable group or individual capability development;
- > Assists leaders in developing new leaders;
- > Continually dialogues with people; and,
- > Helps develop self-determination among leaders and members.

(c) As Advocate

- > Helps analyze and articulate critical issues;
- > Assists others to understand and reflect upon these issues; and
- Evokes and provokes relevant discussion and actions.

(d) As Researcher

- > Conducts social analysis
- > Engages in participatory research with the people as partners;
- > Helps create research designs for people's use and interest; and
- Integrates with the people to understand social phenomenon from the people's viewpoint.

(e) As Planner

- > Conducts initial analysis of area resources and potentials;
- > Assists local group's planning, strategizing and creative action; and
- > Helps systematize people's actions to attain desired goals.

(f) As Catalyst

- > Initiates discussions and actions regarding critical issues; and
- Monitors and nurtures growth of individuals and groups to facilitate long-term social change for people's welfare.

2. Personal characteristics of a CD/CO Worker

- a) Must possess an innate and genuine love for people, which enables them to share with the people in their desire for change;
- b) Must have a commitment to help people in the desire to participate in changing society. The commitment sustains them and enables them to persevere.
- c) Must have a basic trust in the people, be willing to learn from them, and have faith with them.
- d) Must be adaptable, flexible, able to adjust to people and circumstances and able to move with people when and where they decide to move.
- e) Must be ready to learn and unlearn, be open to self-assessment and accept criticism; be able to drop pre-determined notions and stereotypes; and swallow their pride while remaining resourceful in the process.
- f) Must have patience with people but not with situations so that they can keep the people moving. The people must not be pushed. A CO must keep pace with them.
- g) Must be able to analyze problems, communicate with the people in their own language and work at the people's level. Only the can they start a process of critical awareness.
- h) Must be able to follow the growth of critical awareness by generating with the people appropriate action towards change and transformation of the community.

3. Lifestyle and Method of Work of CD/CO Worker

(a) In Method of Work

- People-oriented, i.e. serving the interest of the people by not insisting on own project proposals.
- > Able to work informally among people, and not be overburdened with committee structures.
- > Able to protect the community from outside intervention such as inappropriate projects.

(b) In Lifestyle

- > Humble, simple and immerse oneself in the life of the community;
- Free of self-interest, which makes commitment unclear and dubious, and expect to reward;

Able to identify with the people, see themselves as different, and be aware of the limitations of such;

- > Open to be transformed by identification with, and involvement in the community;
- > Able to develop the internal strength to accept frustrations and loneliness at times.

4. The CD/CO Worker: A Catalyst, Missionary and Visionary

- a) He/she works with people, not for them.
- b) He/she considers people as intelligent and with numerous experiences.
- c) He/she lets the people grow.
- d) He/she builds up the people's cohesiveness.
- e) He/she builds up the people's organization.
- f) He/she believes that people can change and can bring about change in society.

5. Desired Characteristics of a CD/CO Worker

a) Should have respect for and faith in the people they are working with; believe in the potential power and age-old wisdom of the masses.

b) Should go to the people as learners, not as teachers; listen more than talk; facilitate more than lead. Should not have the messianic or redeemed complex - but instead believe that it is the masses who will be their own redeemer.

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- c) Should try to know the people, their socio-economic, political and cultural situation and problems before starting any program or action.
- d) Should be simple and austere in lifestyle.
- e) Should have the capacity and humility to withdraw as soon as the people are ready to manage their own affairs; aims at becoming dispensable.
- f) Capable of improving other's skills and knowledge.
- g) Is needed in order to maintain the community's interest and participation, as well as, to maintain and accelerate the momentum needed.
- h) Requires that the CO be at least several steps ahead of the community, but having in mind the direction of the community will be going and how to reach the desired goals.

A. Pre-Entry/Preparatory			
Activity	Objetitve	Strategy	Facilitator/Organizer
1. Hire /Appoint CD-CO worker/s	Identify and recommend a capable CD-CO worker/s from the area	Review of track records; Interview and screening of applicants	Provincial/Municipal CD Specialists
2. Orient the CD-CO worker/s on the project objectives and requirements	Familiarize the CD-CO worker/s on the project	Group discussion	Provincial/Municipal CD Specialist
3. Gather secondary data (Barangay maps, socio-economic profile, list of leaders and development workers operating in the area, peace and order situation, list of organization, record of history of participation in previous project.)	Make an initial assessment of the barangay's capability to implement and assume responsibility for the project.	Data gathering	CD-C0 worker/s
4. Conduct ocular survey of barangay	Orientation to the physical features/structures of the barangay	Site visits	CD-CO worker/s
B. Community Entry and Integration			
5. Deploy the CD-CO Worker/s	Install the CD-CO worker/s by provincial and municipal level implementors	Community meeting	Provincial/Municipal CD Specialist; Barangay Captain
6. Pay courtesy call on barangay officials	CD-CO worker/s to establish rapport with barangay councils and leaders	Group meeting	Municipal Gov't./ Barangay Captain

9.5.5 Approaches to Participatory Community Development

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FRAMEWORK FOR COMMUNITY DEVELOPMENT

Phase I: FORMATION OF ORGANIZATION

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Activity	Objective	Strategy	Facilitator/Organizer
7. Conduct house-to-house visit and conduct informal interviews with the residents	Establish rapport with the barangay constituents	Home visits; Spending time in most frequented places and look and listen attentively	Barangay Leaders; CD-CO worker/s
8. Conduct project briefing	Orient the community on the project objective and requirements, strategy of implementation, MOA, selection criteria of beneficiaries and activities to be undertaken in order to get their commitment and participation	Community meeting	CD-CO worker/s and Technical Team
 Project Acceptance and Signing of Memorandum of Agreement (MOA) 	Delineate responsibilities of project beneficiaries and implementing agency	Community meeting	CD-CO worker/s
C. Community Assessment			
10. Identify information to be gathered and possible source of information	List down relevant data that should be gathered	Group meeting	CD-CO worker/s
11. Selection of the method of data collection	Determine the best way of data collection, considering the information needed	Group discussion	CD-CO worker/s
12. Collection of data from informants	Establish socio-economic, political and technical information about community	Home visit; focus group discussion; group meeting	CD-CO worker/s
 Processing /Validation of Community Profile and Spot Mapping 	Confirm with the barangay officials and leaders data collected	Community and group meeting; spot checking	CD-CO worker/s

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Facilitator/Organizer	CD-CO worker/s		CD-CO worker/s	CD-CO worker/s		Facilitator/Organizer CD-CO worker/s CD-CO worker/s; Barangay Officials		CD-CO worker/s;
Strategy	Community meeting		Group meeting	Group discussion		Strategy Group discussion Community meeting	- 11	Barangay assembly
Objective	Further enrich and refine data in the profile		Update/finalize community profile	Know the causes and implications of the problems	identified.	ZATION (Levels I and II) Prepare a plan of action towards the development of a WATSAN Project Enlist people who are interested to work actively that will support CO activities		Familiarize the people comprising the core group
Activity	14. Presentation of Validated Profile to the	Community	15. Finalization of the community profile	16. Analysis of the problems identified		Phase II: DEVELOPMENT OF ORGANIZATION (Levels I and II) A. Community Mobilization A. Community Mobilization A. Community Mobilization Obje Obje I. Formulate action plan for the community Prepare a plan of action to Of a WATSAN Project 2. Development of Criteria for Selection of Core Group which will comprise the		3. Core group orientation and presentation

CD-CO worker/s; Barangay Officials

Community meeting

Community residents conduct initial meeting to formalize formation of water association

4A. Launching of water association

formation

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Activity	Objective	Strategy	Facilitator/Organizer
5A. Facilitation on legal works and documents and mobilize committee on documentation	Prepare necessary legal documents	Committee/group discussion	Committee Chairman
6A. Finalize Membership	Confirm final membership by tapstand and undertake information campaign on the importance of tapstand grouping and house rules formulation; select tapstand leader	Undertake meeting per tapstand	CD-CO worker/s
7A. Drafting and Ratification of Constitution and by-laws	Develop a set of policies and by-laws that will govern the operation of the association	Meeting of core group or tapstand leaders	CD-CO worker/s; LGU
8A. Registration and Accreditation of Water Association	Registration of water association to appropriate government agencies	Actual registration with concerned government entity	CD-CO worker/s; Association Officers
C. Project Preparation Activities			
4B. Feasibility Study	Identify potential water source sites	Mobilize community through committee	Technical Team; CD-CO worker/s

4B. Feasibility Study	Identify potential water source sites	Mobilize community through committee	Technical Team; CD-CO worker/s
5B. Presentation of Technical Findings	Inform the community of the results of the feasibility study conducted	Core group meeting	CD-CO worker/s
6B. Prepare Technical Design	Determine/design the most appropriate technology to be used for WATSAN system	Community meeting	Technical Team
7B. Presentation of Technical Design	Come up with recommendations on the technical study	Community meeting	Technical Team
8B. Finalize Technical Design	Generate community decision on the proposed WATSAN scheme	Technical Team Dicsussion	Technical Team

Activity	Objective	Strategy	Facilitator/Organizer
D. Project Implementation			
9. Project Presentation	Present to the community the project to be implemented and the responsibilities required of the beneficiaries	Community meeting	Technical Team/CD-CO Worker/s
10. Action Planning/Pre-construction Seminar	Generate workplan and tasking for the construction activities; Spell out what to expect during the construction processes	Community meeting	Technical Team
11. Mobilization for Delivery of Materials	Ensure that materials delivered at the community are all accounted for	Specific committee to handle materials	Selected Committee
12. Construction	Construct/Complete WATSAN Facility	Actual Construction	Technical Team
PHASE III: CONSOLIDATION AND SUSTENANCE	STENANCE OF ORGANIZATION		
Activity	Objective	Strategy	Facilitator/Organizer
1. Training on Hygiene, Sanitation and Health Care	Conduct of training on health and sanitation	Community meeting or meeting by tapstand grouping	CD-CO worker/s; Rural Sanitary Inspector
2. Organizational Management Training	Conduct of training on organizational management	Seminar-workshop	LGU/CD-CO worker/s

LGU/CD-CO worker/s

Seminar-workshop

Conduct a financial management training

3. Financial Management Training

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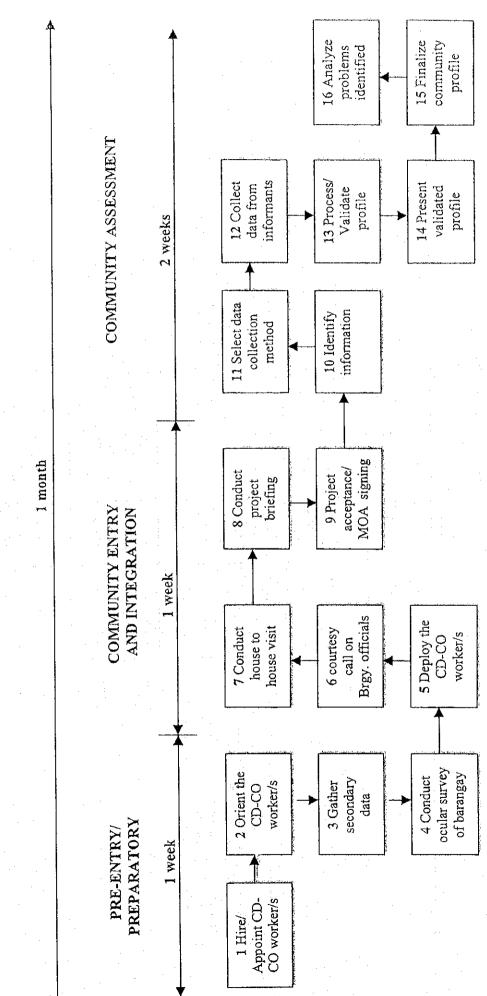
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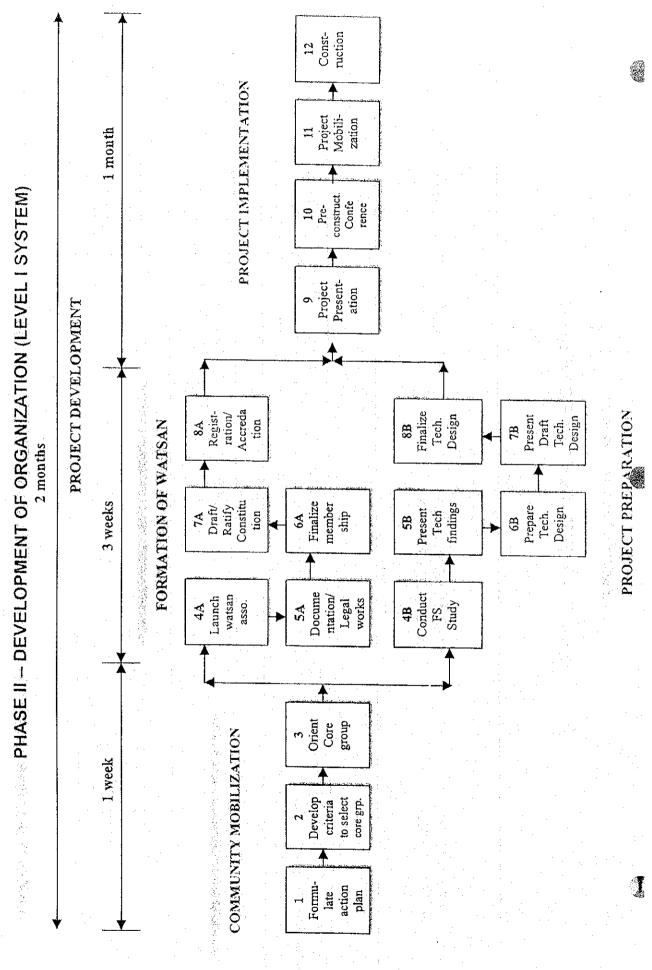
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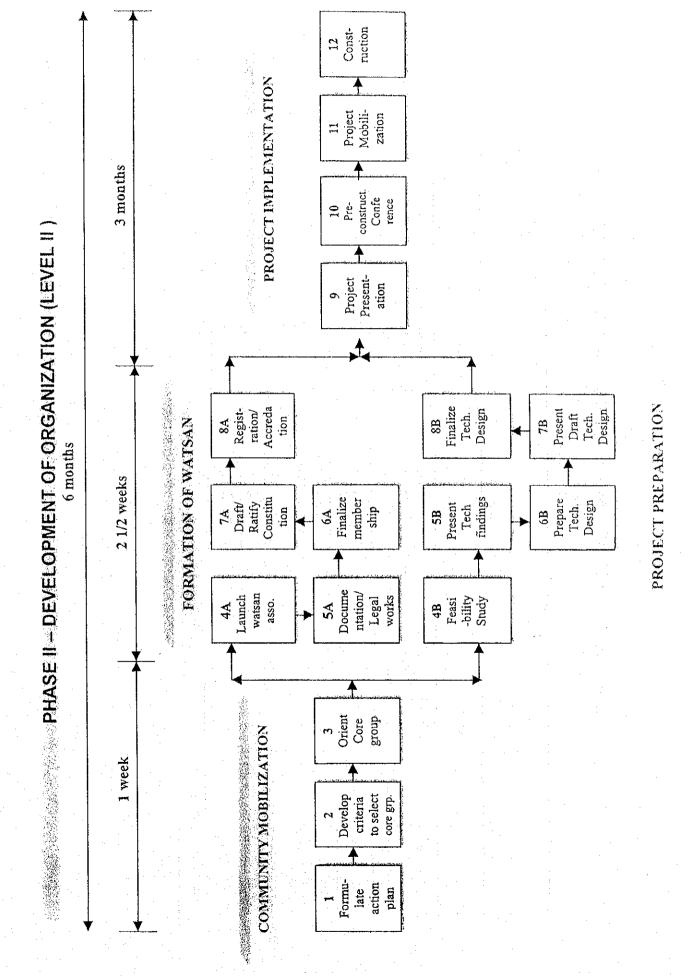
Facilitator/Organizer CD-CO worker/s		Technical Team	Technical Team	Technical Team	CD-CO worker/LGU	CD-CO worker/s	
Strategy Meeting of tanstand leader		Actual Test Run; Community meeting	Collect water sample and submit to DOH for test	Seminar-workshop	Turn-over ceremony	Community meeting	
Objective Collete cimilar house rules formulated in the	previous activity	Solicit community participation in ocular operation and test run of facility installed	Ensure potability of water from facility	Conduct a training on O&M and repair	To have a formal turn-over of facility/system to officers and members	Conduct a final meeting with the water association officers and barangay council	
	4. Fresentation, Companison/Contauction of Tapstand and House Rules	5. Facility/System Test Run	6. Water Quality Test	7. Operation, Maintenance and Repair Training	8. Turn-over of Facility/System	9. Final Meeting	10. EXIT

PHASE I – FORMATION OF ORGANIZATION

2.17



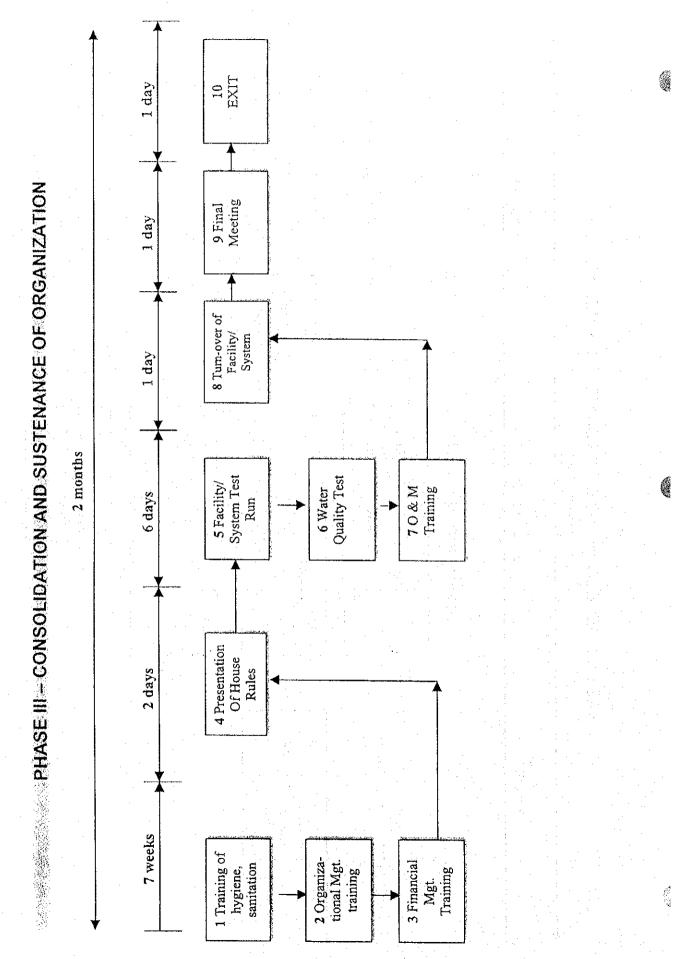




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