
**SECTOR IMPLEMENTATION
ARRANGEMENTS**

C



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.

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.

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.

(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.

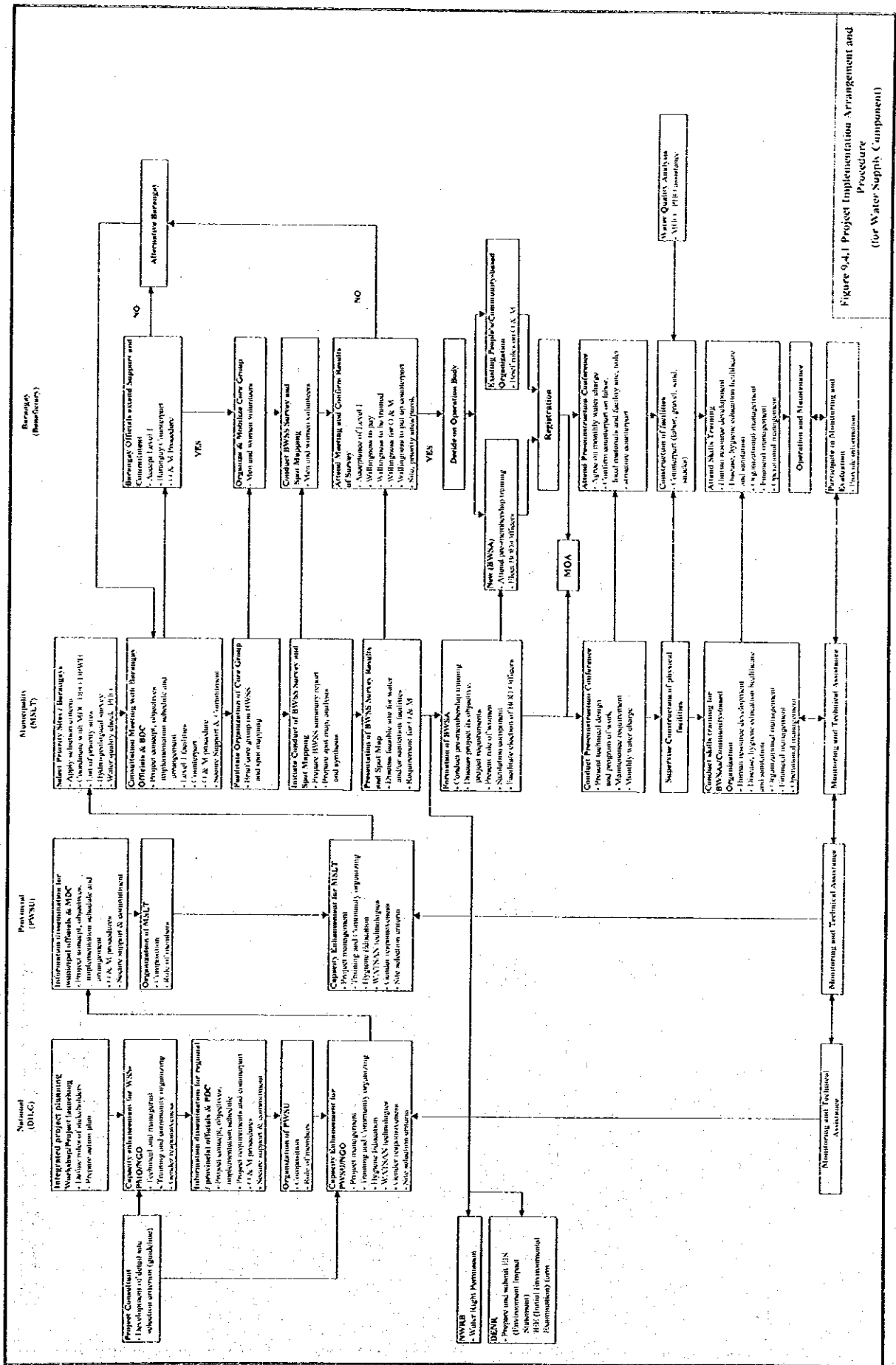


Figure 9.4.1 Project Implementation Arrangement and Procedure (for Water-Supply Component)

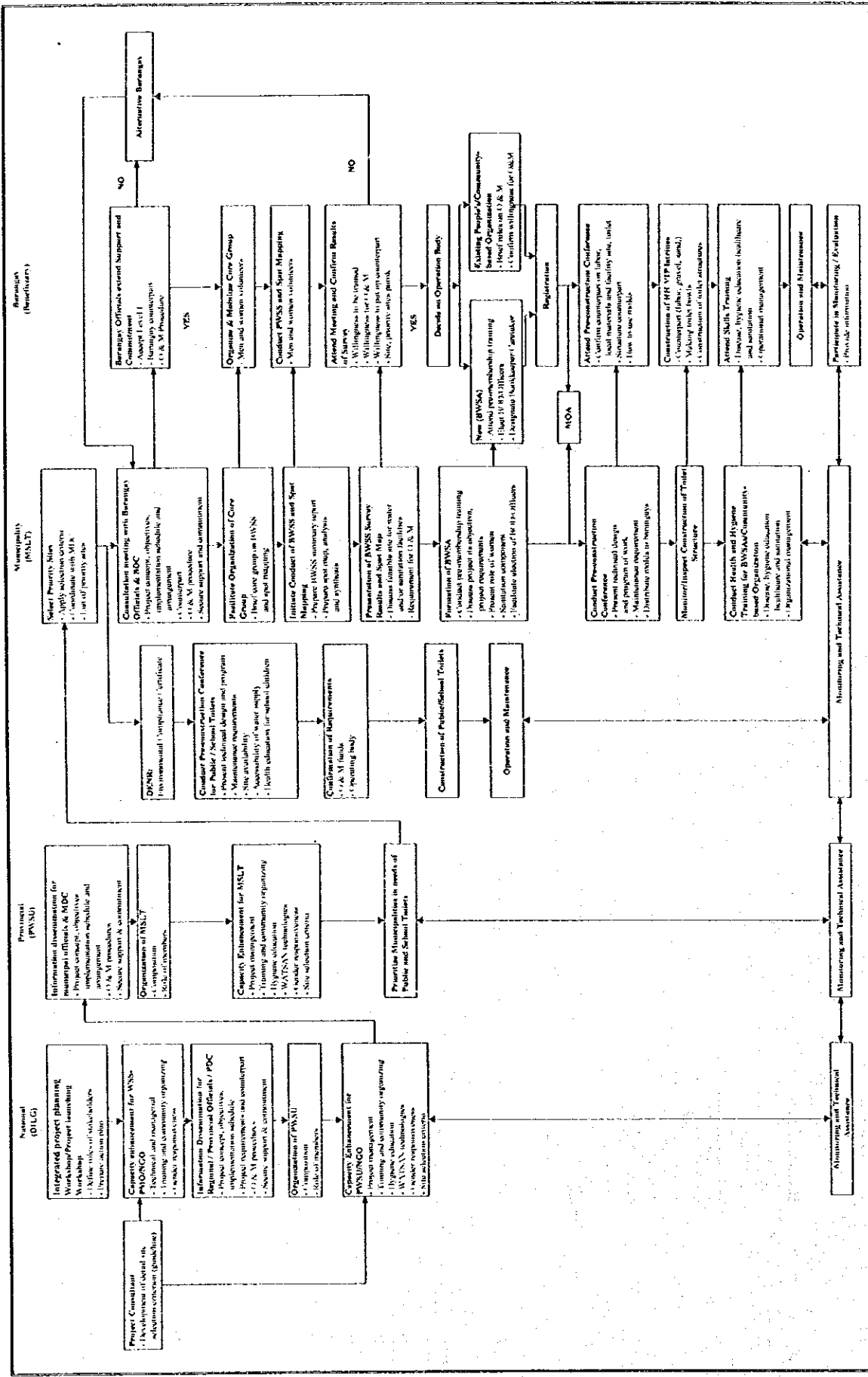


Figure 9.A.2 Project Implementation Arrangement and Procedure (for Sanitation Component)

Note: Procurement of tender models shall be conducted by DILG and shall distribute to beneficiaries through provincial and municipal office.

PROPOSED SITE SELECTION CRITERIA

Barangay: _____ Municipality: _____ Province: _____

(1). Required Items

Item No.	Description	Score
1.	No alternative water source except ground water	OK or Not
2.	Acceptance of Level I facility	OK or Not

(2) Technical & 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	15%

(3) Community Interest and Involvement 40%

Item No.	Description	Score
1.	Willingness to assume responsibility for operating and maintenance of the facility/ies	10%
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 Score

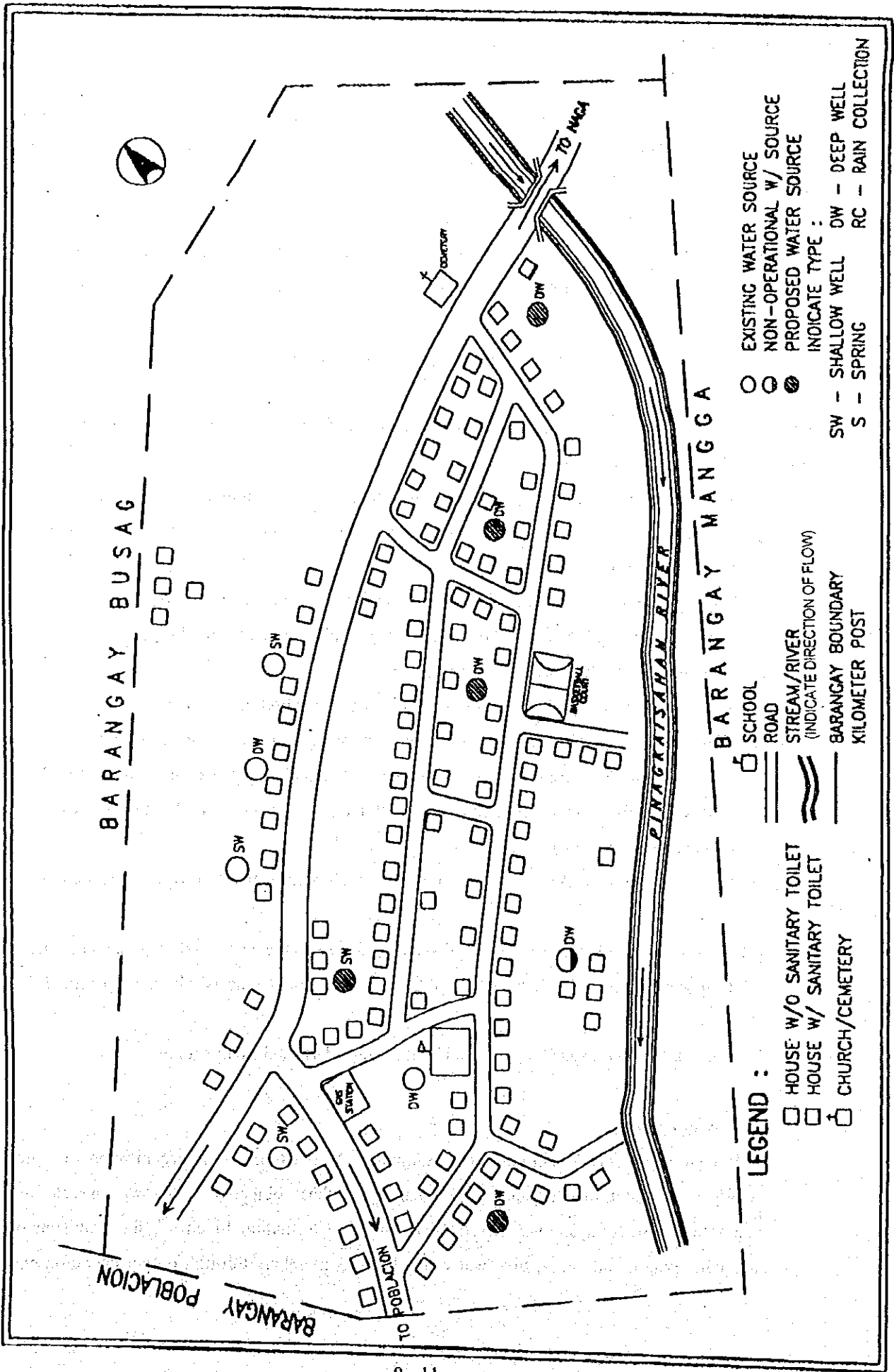
Item No.	Description	Score
(1)	Required items	OK or Not
(2)	Physical requirements	
(3)	Community interest and involvement	

Total Score

Proposed Capacity Enhancement Program

Activity/Participation	Course Content
1. Project Planning/Launching Workshop DILG (WSS-PMO) DPWH, DOH, NWRB NEDA, DOF, OECF	1. Project Concept, Objective, Project Requirements, Implementation schedule and arrangements 2. Role and responsibility of national government agencies, LGUs (provide and municipalities and project beneficiaries) 3. Action Plan by province
2. Capacity Enhancement for WSS-PMO, NGOs, DOH and DPWH	1. Project Concept (objectives, components, requirements, implementation arrangement, O&M systems and procedure, etc.) 2. Sector Development and existing Policies 3. Project Planning, Management and Control 4. Team Building Exercise 5. Presentation and Facilitating Skills 6. Methods of Instruction 7. Community Organization/Community Development 8. Barangay Surveys and Spot Mapping 9. Formulation of BWSA 10. Health and Hygiene Education 11. Technical Training <ul style="list-style-type: none"> - Designing and Construction - Water Source Investigation 12. Skills Training for Operating Body <ul style="list-style-type: none"> - Organizational Management - Financial Management - Operational Management 13. Gender Responsiveness 14. Monitoring
3. Capacity Enhancement for LGUs (PWSU, MSLT, CO/NGOs)	1. Project Concept (objectives, components, requirements, implementation arrangement, O&M systems and procedure, etc.) 2. Sector Development and existing Policies 3. Project Planning, Management and Control 4. Team Building Exercise 5. Methods of Instruction 6. Presentation and Facilitating Skills 7. Community Organization/Community Development 8. Barangay Surveys and Spot Mapping 9. Formulation of BWSA 10. Health and Hygiene Education 11. Technical Training <ul style="list-style-type: none"> - Designing and Construction of WATSAN facilities - Water Source Investigation 12. Skills Training for Operating Body <ul style="list-style-type: none"> - Organizational Management - Financial Management - Operational Management 13. Gender Responsiveness 14. Monitoring
4. Capacity Enhancement for Operating body (BOD/Officers, Bookkeeper, Caretakers)	1. Project concept (objectives, components, requirements, implementation arrangements, O&M systems and procedures, etc.) 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

SPOT MAP



- LEGEND :**
- HOUSE W/O SANITARY TOILET
 - HOUSE W/ SANITARY TOILET
 - CHURCH/CEMETERY
 - EXISTING WATER SOURCE
 - NON-OPERATIONAL W/ SOURCE
 - PROPOSED WATER SOURCE
 - INDICATE TYPE :
 - SW - SHALLOW WELL
 - S - SPRING
 - DW - DEEP WELL
 - RC - RAIN COLLECTION

- SCHOOL
- ROAD
- STREAM/RIVER (INDICATE DIRECTION OF FLOW)
- BARANGAY BOUNDARY
- KILOMETER POST

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 request 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. Follows these procedures when completing the map:

- 1) Indicate location of highways and road, including name and number of road if any.
- 2) Draw approximate boundaries for your barangay and indicate names of adjacent barangays
- 3) Indicate direction of north line.
- 4) Locate public building, cemeteries, schools, or other prominent landmarks.
- 5) Locate natural land features (like river, 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 existing 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).

Proposed Community Management Program

Barangay Activities		Responsible Party	Duration (Day)	Cost
A. Pre-Formation/Social Preparation Phase				
1. Consultation with barangay officials/development councils (First Meeting) The activity aims to obtain the support, commitment and active participation in planning, implementation and managing the project. They are primarily responsible for the identification and prioritization of community needs. The decision on the acceptance of Level I water facility and barangay counterpart shall emanate from them.	CO/NGO; PWSU/MSLT; Barangay Officials Development Council	0.5		
2. Barangay Water Supply and Sanitation Survey/Spot Map A core group composed of men and women volunteers will conduct BWSS and spot 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.	CO/NGO; PWSU/MSLT; Men and Women Volunteers	5		P600
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 and houses in need of latrine. The community members will decide among themselves which sitios/puroks will be given priority in the provision of water and sanitation facilities. The community members will also decide on the operating body, whether to tap existing community-based organization, form a new one (BWSA) or merge/consolidate with existing water association.	CO/NGO; PWSU/MSLT; Prospective Users	0.5		P500

Barangay Activities		Responsible Party	Duration (Day)	Cost
B. Formation Phase				
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 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, sanitation, technical aspects, success factors, etc. are discussed during the pre-membership training. 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.	CO/NGO; PWSU/MSLT; Prospective Water Users	1	P1,000	
5. Meeting of the Board of Directors (Fourth Meeting) The first meeting of the BOD is conducted to discuss in details the duties and responsibilities of the Board /Officers, how to conduct a meeting, formulate 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.	CO/NGO; PWSU/MSLT; BOD/Officers	1	P1,000	
6. Registration The operating body (existing community organization or BWSA is registered to give it legal personality to enter into a contractual obligation)	BOD/Officers CO/NGO; PWSU/MSLT;			
7. Pre-construction Conference (Fifth Meeting) The technical design and program of work for the construction of water and sanitation facilities are presented to the officers and members of the operating body. Based on the technical design, the financial computation to determine the operation and maintenance requirements of the facilities is discussed. The proposed estimates on monthly water fees are presented and the beneficiaries must agree among themselves the monthly water charge to be collected. The commitment of the beneficiaries to actively participate in the construction and counterpart shall be confirmed.	CO/NGO; PWSU/MSLT; BOD/Officers members	5	P500	

Barangay Activities	Responsible	Duration (Day)	Cost
<p>8. 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 of the association and P/MSLT members.</p>	CONGO; PWSU/MSLT; BOD/Officers members	10	
<p>9. 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 an awareness among the project beneficiaries on the importance of proper hygiene and the need to maintain a healthy 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).</p>	CONGO; PWSU/MSLT; BOD/Officers Bookkeeper/Caretaker	5	P4,400
<p>10. 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.</p>	MSLT/RHW/BHW	Continuous	P1,800
C. Post Formation Phase			
<p>11. Monitoring, Evaluation and Technical Assistance 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.</p>	PWSU/MSLT; BOD/Officers	Continuous	
TOTAL			23.5

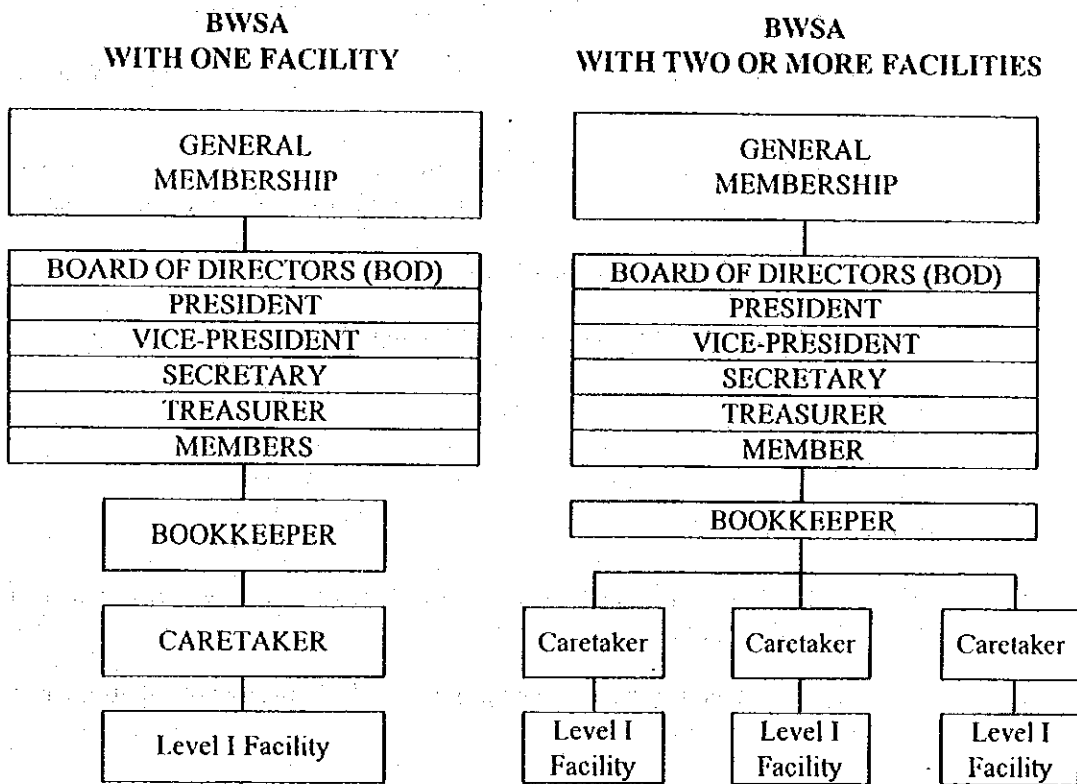


Figure 9.4.3 Organization Structure of BWSA

Sample Manifesto

MANIFESTO RESOLUTION

We, household heads (men or women) of Barangay _____, Municipality of _____, Province of _____, seek the assistance of the Provincial Government in putting up a Level I water system in our area.

Conscious of the attendant responsibilities in operating and maintaining the facilities, we constitute ourselves into an association in accordance with R.A. 6716 and hereby declare:

1. That the name of the association shall be _____ Barangay Waterworks and Sanitation Association;
2. That the association is formed primarily to own, operate and maintain the water facilities and provide members with adequate supply of water for domestic use;
3. That the association shall maintain office of Barangay _____;
4. That the following shall maintain office at Barangay _____;

President	_____
Vice-President	_____
Secretary	_____
Treasurer	_____
Board Member	_____

5. That membership shall be open to household heads (men or women) who shall use the water facilities; and
6. That this Resolution may be amended or repealed by majority vote of all members of the association.

To ensure the construction, smooth operation and proper maintenance of the water supply system, we bind ourselves to the following:

1. That we will provide a suitable site for the project;
2. That we will collect monthly contributions for water fees to raise funds for the repair, maintenance and cost recovery of the system;
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	CTN
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____
11.	_____	_____	_____
12.	_____	_____	_____
13.	_____	_____	_____
14.	_____	_____	_____
15.	_____	_____	_____
16.	_____	_____	_____
17.	_____	_____	_____
18.	_____	_____	_____

(Name of BWSA)

(Barangay, Municipality)

(Province)

The Board of Directors

Barangay Waterworks
and Sanitation Association

Date _____

Gentlemen:

I hereby apply for membership in _____ Barangay Waterworks and Sanitation Association to 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

Name of Prospective Member: _____

Age: _____ Civil Status: _____ Sex: _____

Place of Birth: _____ Date of Birth: _____

Household Members (include household help):

Name	Age	Relation to Member
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Present Water Source used by Household (Please Check):

Handpump _____	Artesian Well _____
Dug Well _____	Spring _____
Others _____	

Present Expenses for Water per Month _____

Distance of Water Source to the House _____ meters

I hereby certify that the information above are true and correct to the best of my knowledge.

Signature Date

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 elects 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 and 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
- 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 reconciliation 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 damage or repair needs of the facility
 - Perform minor repairs of the water facility
 - Assist in the collection of water fee 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 bookkeeping provides timely information on the financial health of the operation.

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 receives the reports and how frequently. It is recommended that certain records be maintained and certain reports be compiled. 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)

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
- Document - for recording different types of financial transactions
- Books - to maintain a record of financial transactions
- Reports - to summarize all financial transactions for given period.

(4) Transaction Defined

The BWSA financial transactions are classified as:

- Cash Transactions
 - Cash-In (cash receipts)
 - Cash 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 by the 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, in 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 accounts 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 noted. 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 accounts from the members and outside parties are recorded in the Receivable Book (See Figure 7). This book shows the transaction date, the billing number, 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.

(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.

GENERAL ACCOUNTING PLAN (GAP)
FOR BWSA TRANSACTIONS

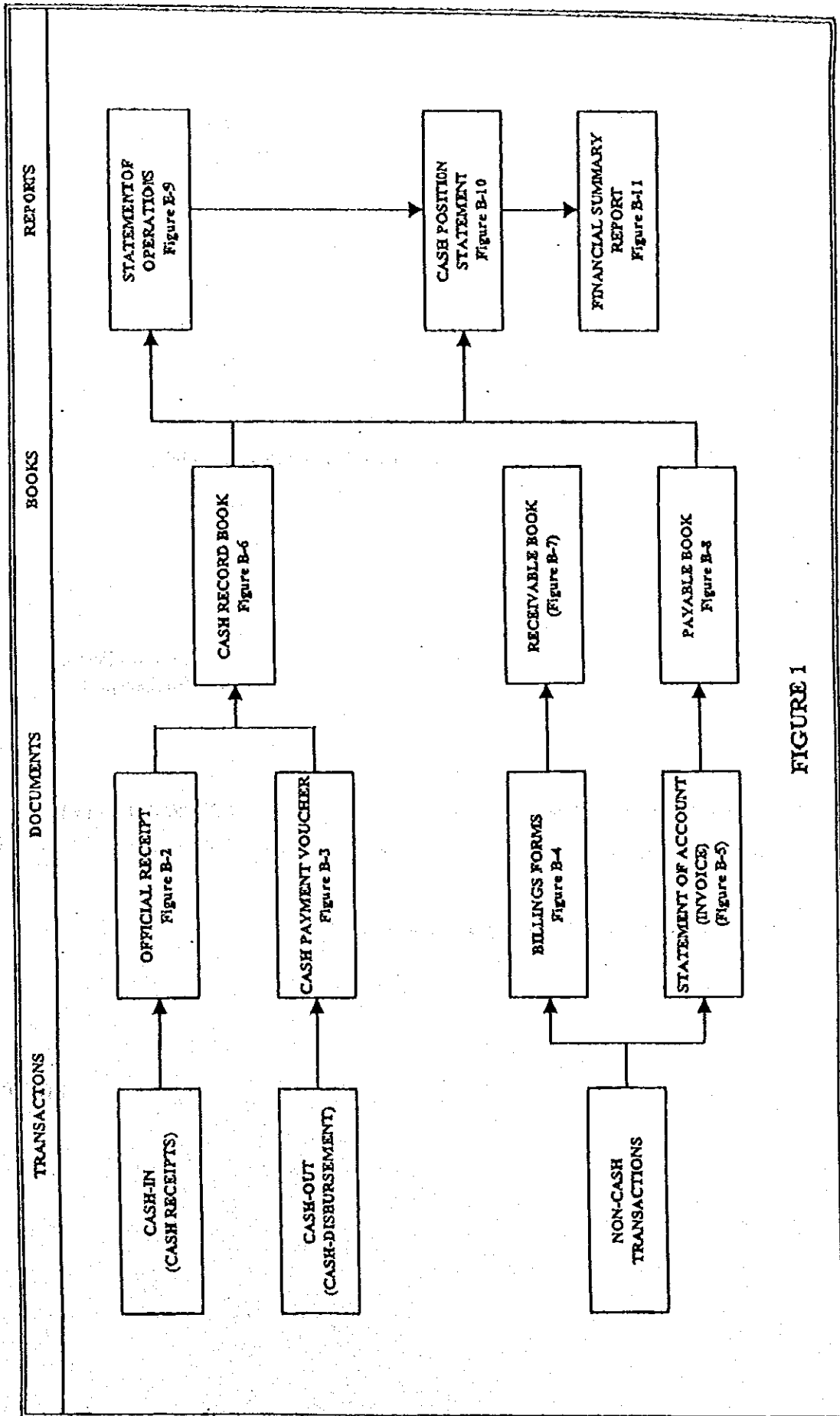


FIGURE 1

OFFICIAL RECEIPT

BWSA _____

OR. NO. _____

Date: _____

Received from _____

the sum of _____ (P _____)

in payment of _____

Billing Form # _____ (For payment of water fees only).

Treasurer/Collector
(Bookkeeper)

Note: Print Name Below Signature

(IN TRIPLICATE)

Complete Official Receipt in Triplicate

Official Receipt must be issued for all payments received by the Bookkeeper.

FIGURE 2

**CASH PAYMENT
VOUCHER**

CPV No. _____

Date: _____

Paid to : _____

Address : _____

In the sum of : _____ (P _____)

PARTICULARS	AMOUNT

Approved By: _____

Received from _____

The amount of _____

As payment for the above described.

Received By _____

Date Received _____

Note: Print Name Below Signature

**VOUCHER
(IN TRIPLICATE)**

Each time a disbursement is made, a cash payment voucher must be prepared to support such disbursement.

FIGURE 3

Name of BWSA

Barangay, Municipality

Province

BILLING FORM
for
WATER CONSUMPTION

Name of Member _____

Address: _____

No. _____

PERIOD COVERED					AMOUNT
FROM		TO			
MONTH	DAY	MONTH	DAY	YEAR	

Date of Billing: _____ Please pay On or Before: _____

Please pay your bill at the Office on or before the date shown above.

BWSA Treasurer

Note: Print Name Below Signature

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

FIGURE 4

Date: _____

Invoice # _____

INVOICE

Sold to: _____

ITEM	NO.	UNIT PRICE	PRICE
TOTAL			p

Received By: _____
(Print Name below Signature)

FIGURE 5

BWSA _____

**CASH RECORD BOOK
COLLECTION/DISBURSEMENT**

Month: _____ Year: _____

DATE	PARTICULARS	CREDIT (Money Received)	DEBIT (Money Disbursed)	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

This form records all accounts due to the Association

FIGURE 7

Name of BWSA _____

Barangay, Municipality _____

Province _____

STATEMENT OF OPERATIONS
For the Month _____, _____

Revenues:			
Water Fees	_____	P	_____
Others (Specify)	_____		_____
Total Revenues	_____	P	_____
 Operating Expenses:			
Salaries	_____	P	_____
Supplies	_____		_____
Repair and Maintenance	_____		_____
Others (Specify)	_____		_____
Total Operating Expenses	_____	P	_____
 Net Income/Loss		P	_____

Prepared By: _____

Date Prepared: _____

Certified true and correct:

BWSA Treasurer

Date Certified: _____

Note: Print Name below signature

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

FIGURE 9

Name of BWSA

Barangay, Municipality

Province

CASH POSITION STATEMENT
For the Month _____, _____

Revenues:

Water Fees	_____	P	_____
Contribution	_____		_____
Others (Specify)	_____		_____
Total Revenues	_____	P	_____

Less: Operating Expenses:

Salaries	_____	P	_____
Supplies	_____		_____
Repair and Maintenance	_____		_____
Others (Specify)	_____		_____
Total Operating Expenses	_____	P	_____

Cash Balance, During the Period	_____	P	_____
Add: Cash Balance, Beginning	_____	P	_____
Cash Balance, Ending	_____	P	_____

Prepared By: _____

Date Prepared: _____

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 BWSA

Barangay, Municipality

Province

FINANCIAL SUMMARY REPORT
Year End _____

I. 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	_____

II. Findings/Recommendations:

Prepared By: _____
BWSA Bookkeeper

Date Prepared: _____

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

Table 9.4.1 Format for Level I Project Data

Form _____

PROPOSED LEVEL I PROJECT DATA	
Notice : This form shall be accomplished upon instruction of PST/PWSD	
LOCATION	1.1 Barangay/Sitio _____
	1.2 Municipality _____
POP. DATA	1.3 Province _____
	1.4 Region _____
POP. DATA	2.1 Total Community/Barangay Population _____
	2.2 Total Number of Households _____
POP. DATA	2.3 Proposed Population to be Served _____
	2.4 Proposed Number of Households to be Served _____
INFORMATION ON THE WELL SITE	3.1 Ownership : <input type="checkbox"/> Public <input type="checkbox"/> Private
	3.2 Description :
INFORMATION ON THE WELL SITE	3.3 Location:
	3.4 Donor (if Private Lot):
DESCRIPTION OF EXISTING NEARBY SOURCE(S) (Use separate sheets if necessary)	4.1 Type of Point Source: <input type="checkbox"/> Deep Well <input type="checkbox"/> Shallow Well <input type="checkbox"/> Spring <input type="checkbox"/> Others (dug well pond)
	4.2 Ownership : <input type="checkbox"/> Public <input type="checkbox"/> Private
4.3 For wells : Casing diameter _____ in. or _____ m. Casing depth _____ ft. or _____ m. Water level Well _____ ft. or _____ m. Well capacity/yield _____ gpm. or _____ lps.	
4.4 For Springs : Capacity/yield _____ gpm. or _____ lps. Approx. elevation above or below _____ Service Area _____ ft. or _____ m. Location <input type="checkbox"/> Inside of service area <input type="checkbox"/> Outside of service area Approximate distance from center of service area _____ km.	
Prepared by : _____	
<div style="display: flex; justify-content: space-around;"> _____ _____ </div> Municipal Liason Staff Date	

Table 9.4.2 Format for Level II Feasibility Study

FEASIBILITY STUDY (Level II)		Barangay	Municipality
Notice: This form shall be accomplished upon instruction of the PST/PWSO.		Province	Region
PROJECT SUMMARY			
POPULATION DATA	1. Present Population	2. Design Population	3. Number of Households
			6. Number of Faucets
TECHNICAL DATA	4. Type of Source <input type="checkbox"/> Spring <input type="checkbox"/> Well <input type="checkbox"/> Surface Water	5. Type of System <input type="checkbox"/> Gravity <input type="checkbox"/> Pumped	8. Pumping Time _____ Hours per Day
	7. Pump Horsepower _____ HP	9. Total Average Daily Demand _____ Liters	10. Storage Tank Capacity _____ Liters
	11. Pump Discharge Capacity _____ LPS		
FINANCIAL DATA	12. Total System Cost P _____	13. Maximum Loan Amount P _____	14. Interest Rate _____
	15. Local Equity P _____	16. Funding Cost per Household P _____	17. Repayment Period (months) _____
	18. Type of Local Equity <input type="checkbox"/> Cash <input type="checkbox"/> Labor <input type="checkbox"/> Materials <input type="checkbox"/> Others, _____		
	19. Total Monthly Expenses P _____	20. Monthly Fee Per Household P _____	
ANNEXES	<input type="checkbox"/> 1 Survey Form <input type="checkbox"/> 5 Design of Pipe Lines <input type="checkbox"/> 9A Fittings Schedule <input type="checkbox"/> 12 Financial Analysis <input type="checkbox"/> 2 Map of the Project Area <input type="checkbox"/> 6 Design of Reservoir and Pump (G.I. Pipes) <input type="checkbox"/> 13 Availability of Local Equity <input type="checkbox"/> 3 Design Criteria and Basic Design Data <input type="checkbox"/> 7 Detailed Design Plan <input type="checkbox"/> 9B Fittings Schedule <input type="checkbox"/> 10 Bill of Materials <input type="checkbox"/> 4 Schematic Diagram of the System <input type="checkbox"/> 8 Pipes Schedule <input type="checkbox"/> 11 Cost Summary		
Prepared by : _____ Municipal Liason Staff Date		Endorsed by : _____ PST/PWSO Coordinator Date	

Annex 1

SURVEY FORM
Rural Water Supply Project

A. LOCATION

Barangay : _____
Municipality : _____

Province : _____
Region Number : _____

B. GENERAL INFORMATION

1. Population _____
2. Number of households _____
3. Distance from poblacion _____ kilometers
4. Availability of electricity Yes No
5. Distance from electric line _____ kilometers
6. Power cost per kilowatt hour P _____
7. Availability of public transportation _____
8. Main livelihood of residents Land transport
 Water transport
 Farming
 Industry Others
 Fishing

C. TECHNICAL INFORMATION

1. Are there reliable sources of potable water?

Yes No

a) For Wells

Well capacity : _____ lps

Casing diameter : _____

Casing depth : _____

Water level from top of well : _____

Location : Within service area
 Outside _____ M. from service area

b) For Springs

Average dry season flow : _____ GPM LPS

Relative elevation of spring

a. _____ ft. m. above service area
b. _____ ft. m. below service area

Location : Within service area
 Outside _____ m. from service area

2. Are there water supply system materials and equipment (pumps, pipes, fittings) which can be donated for this project from other source?

Yes No

For pumps : Type : _____ Power : _____ HP

For pipes : Galvanized Iron PVC
 Others, specify _____

3. Is there an existing water tank that can be used? Yes No

Type : Steel Reinforced Concrete

Capacity : _____ Gallons Cubic Meters

Location: (Please indicate in the map of the project area)

Relative elevation with respect to service area _____ ft. _____ m.

4. Are there other sites where water tanks may be erected? Yes No

Location : (please indicate in the map of the project area)

Relative elevation with respect to service area _____ ft. _____ m.

5. Does the barangay have skilled personnel? Yes No

If yes, how many? Estimated Number

Plumbers : _____
Masons : _____
Carpenters : _____
Others : _____

If no, are there competent contractors near the area?

Plumbing contractor : Yes No
Tank fabricator : Yes No

Are there suppliers of materials (pumps, pipes, fittings) in the municipality?

Yes No

D. FINANCIAL INFORMATION

1. What can the barangay provide as local equity?

Cash : P _____
 Labor : _____ man-days
 Materials : Sand : _____ cu. m.
 Gravel : _____ cu. m.
 Cement : _____ bags
 Others, specify : _____

2. Have the people been informed of the current financing policies for Level II systems, particularly the monthly fees required to repay loan & provide for O & M?

Yes No

3. How much are the people willing to pay per household per month as a water fee?

Below P 6.00 P 10.00 - 15.00 Others
 P 6.00 - 10.00 15.00 - 20.00 Specify : _____

4. Average income per household P _____ per month

E. INSTITUTIONAL INFORMATION

1. Is there an existing association who is ready, willing and able to manage the system

Yes No

If yes, please specify. _____

2. Are people willing to join a water association to operate and manage a water supply system? Yes No

3. How many households are willing to be members? _____ households.

4. Name at least three (3) leaders of the community who can act as officers of the association, if required.

Name	Address
_____	_____
_____	_____
_____	_____

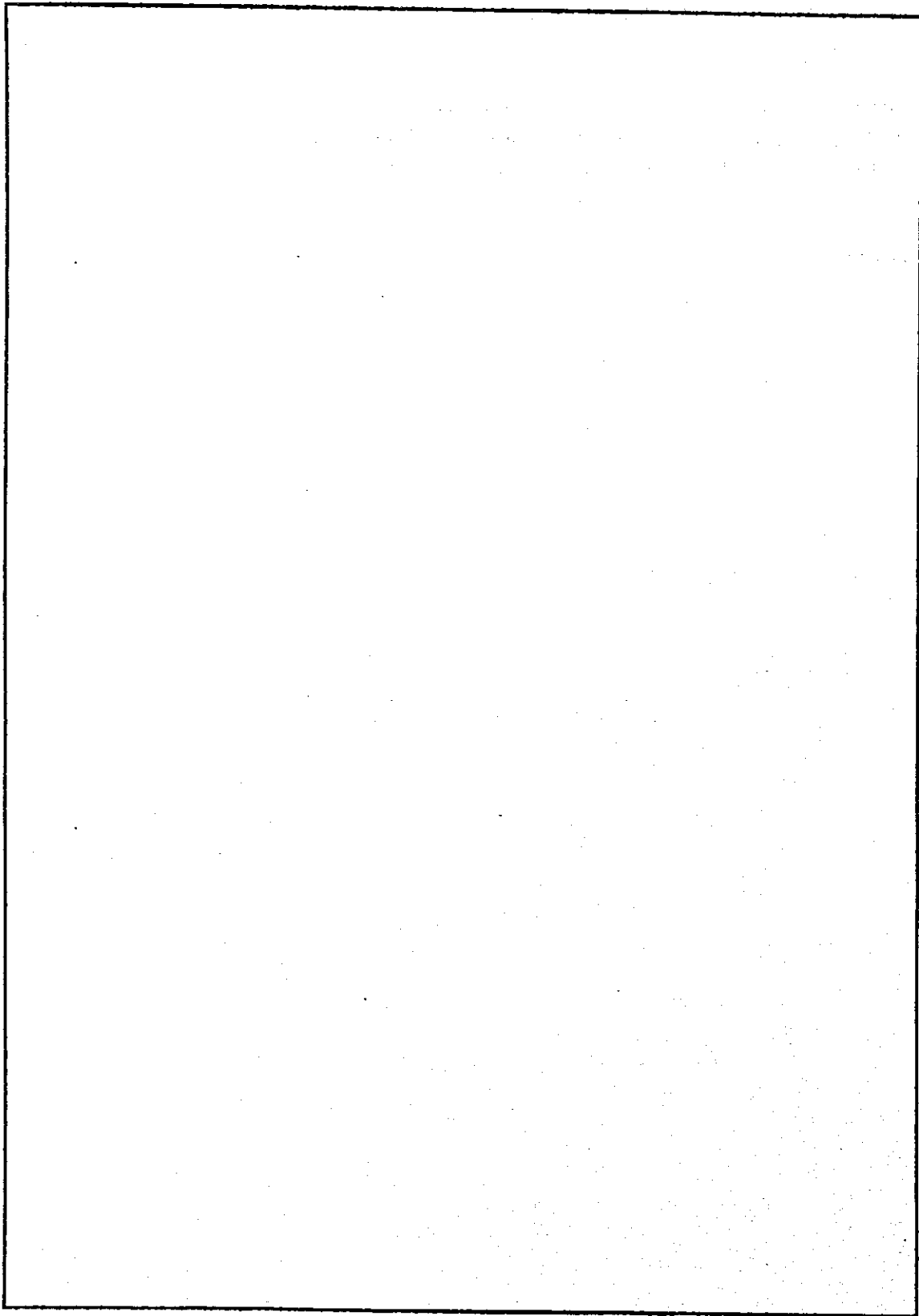
F. MAP OF THE AREA

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



Annex 3

DESIGN CRITERIA AND BASIC DESIGN DATA
 Rural Water Supply Project

I. Design Criteria

1. Design Period : 5 years
2. Population
 - Annual Growth : 3%
 - Average Household Size : 6 persons/HH
 - Design Population : Present Population x 1.16
3. Per Capita Water Consumption
 - 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
 - Pumping Hours : 8 -15 hours
 - Pumping Rate : Maximum Day Demand/PumpingHrs. = _____
6. Storage Capacity : 1/4 of Average Day Demand
7. System Pressure : 5 - 10 psi at faucet
8. Households Served Per Faucet : 4 - 6 HH

II. Basic Design Data

1. Present Population : _____
2. Design Population (Present Population X 1.16) : _____
3. Average Day Demand: _____ X _____ : _____
 (Per Capita Consumption) (Design Pop.)
4. Maximum Day Demand: 1.3 X _____ : _____
 (Average Day Demand)

Annex 6
DESIGN OF RESERVOIR AND PUMP
 _____ Rural Water Supply Project

A. DESIGN

1. Determine Capacity of Reservoir, (C_r)

$$C_r = 1/4 \times \text{Average Day Demand}$$

$$C_r = 1/4 \times D_d \text{ (LPD)}$$

$$C_r = \underline{\hspace{2cm}} \text{ liters}$$

2. Determine Minimum Water Elevation, (WL_m)

$$WL_m = \text{total head loss} + \text{Minimum Pressure in Main (Meters)}$$

For Barangay System, Min. Pressure = 5 psi (use 3M.)

For Poblacion System, Min. Pressure = 10 psi (use 7M.)

$$WL_m = \underline{\hspace{2cm}} \text{ M.}$$

Note : The bottom of the storage tank should be higher than this elevation.

B. DESIGN OF PUMP

1. Determine Pump Capacity, Q_p (LPS)

$$Q_p = \text{Max. Day Demand (LPD)} / \text{Operating Time (Sec.)}$$

$$Q_p = 78 P_d / T \quad \text{where: } P_d = \text{Design Population}$$

$T = \text{Operating Time in Seconds}$

$$Q_p = \underline{\hspace{2cm}} \text{ LPS}$$

2. Calculate Total Dynamic Head, TDH (Meters)

$$\text{TDH} = \text{Depth of Pumping Level} + \text{by Maximum Reservoir Elevation} + \text{friction loss}$$

$$\text{TDH} = \underline{\hspace{2cm}} \text{ m}$$

3. Calculate Brake Horsepower Requirement :

$$\text{Brake Horsepower} = \frac{Q_p \times \text{TDH}}{75 \times \text{Efficiency}}$$

$$\text{Brake Horsepower} = \underline{\hspace{2cm}} \text{ Hp}$$

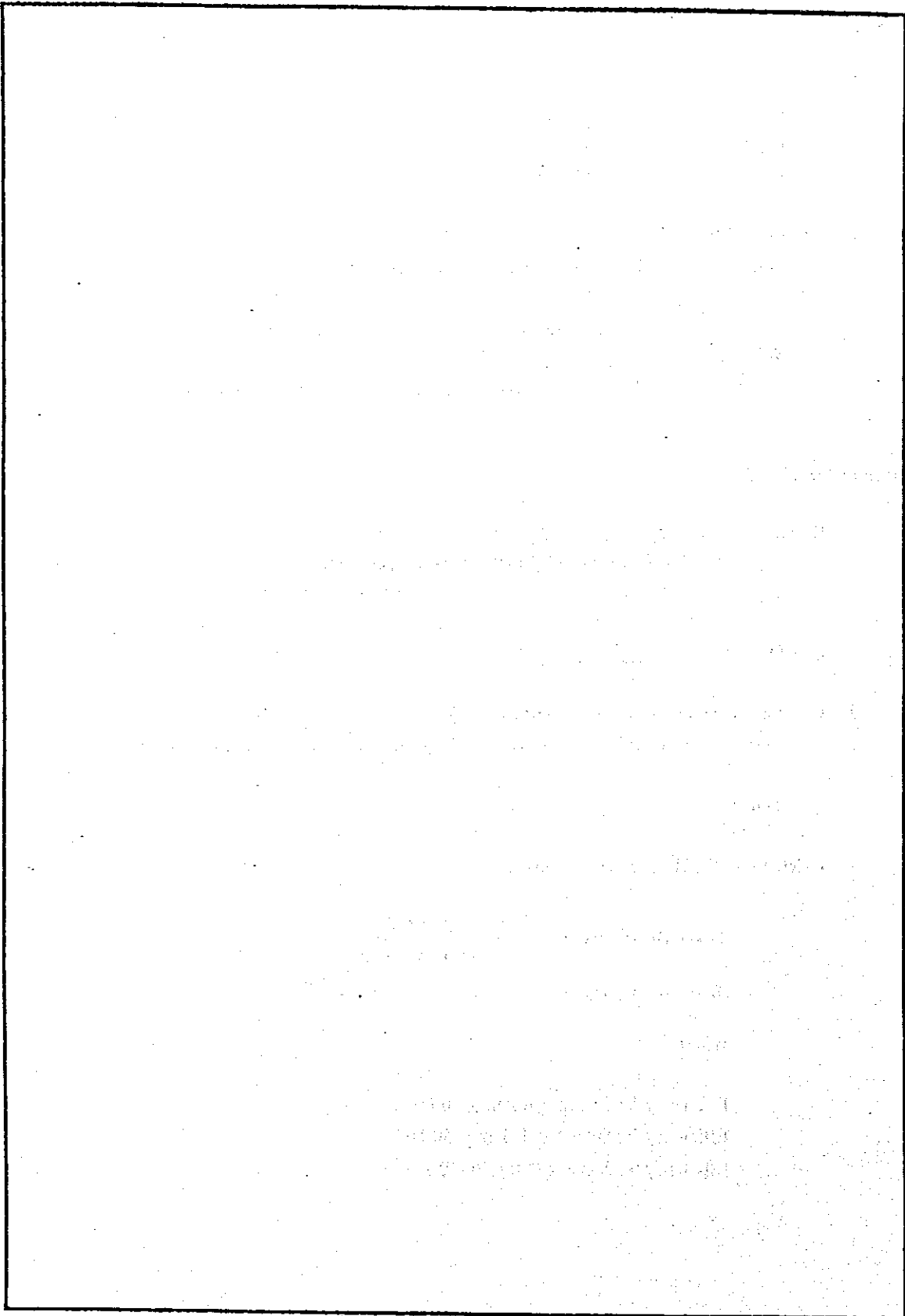
Where :

Efficiency for Centrifugal Pump, 30-60 %

Efficiency for Submersible Pump, 50-60 %

Efficiency for Jetmatic Pump, 20-30 %

Annex 7
DETAILED DESIGN PLAN
Rural Water Supply Project



Annex 11
COST SUMMARY

Rural Water Supply Project

I. ESTIMATED COST OF THE SYSTEM

1. a) Cost of Pipes	P	_____	
b) Cost of Fittings		_____	
Total Cost of Pipes and Fittings			P _____
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			P _____

For gravity system, omit cost of pump.

II. FINANCIAL DATA

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

Annex 13
AVAILABILITY OF LOCAL EQUITY

I. Cash P. _____

II. Labor

Type of Labor	No. of Workers	No. of Days	Rate Per Day
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

III. Materials

Type of Materials	Quantity	Unit Cost
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

TOTAL P. _____

<p>I certify that the items listed above represent the local share of the project cost.</p> <p>_____</p> <p align="center">Association President</p>	<p>Noted by :</p> <p>_____</p> <p align="center">Municipal Sector Liason</p>
<p>_____</p> <p align="center">Date</p>	<p>_____</p> <p align="center">Date</p>

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 then 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 and committed, and expects no 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.
- 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.

9.5.5 Approaches to Participatory Community Development

FRAMEWORK FOR COMMUNITY DEVELOPMENT

Phase I: FORMATION OF ORGANIZATION

A. Pre-Entry/Preparatory

Activity	Objective	Strategy	Personnel/Implementer
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 (<i>Barangay maps, socio-economic profile, list of leaders and development workers, peace and order situation, list of organization, history of participation in previous project.</i>)	Make an initial assessment of the barangay's capability to implement and assume responsibility for the project.	Data gathering	CD-CO 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
7. Conduct house-to-house visit and 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

Activity	Objective	Strategy	Facilitator/Organizer
8. Conduct project briefing	Orient community on the project objective and requirements, strategy of implementation, MOA, selection criteria of beneficiaries and activities in order to get their commitment and participation	Community meeting	CD-CO worker/s and Technical Team
9. Undertake 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. Select the method of data collection	Determine the best way of data collection, considering the information needed	Group discussion	CD-CO worker/s
12. Collect data from informants	Establish socio-economic, political and technical information about community	Home visit; focus group discussion; group meeting	CD-CO worker/s
13. Process /validate community profile and spot mapping	Confirm with the barangay officials and leaders data collected	Community and group meeting; spot checking	CD-CO worker/s
14. Present validated profile to the Community	Further enrich and refine data in the profile	Community meeting	CD-CO worker/s
15. Finalize the community profile	Update/finalize community profile	Group meeting	CD-CO worker/s
16. Analyze the problems identified	Know the causes and implications of the problems identified.	Group discussion	CD-CO worker/s

Phase II: DEVELOPMENT OF ORGANIZATION (Levels I and II)

A. Community Mobilization

Activity	Objective	Strategy	Facilitator/Organizer
1. Formulate action plan for the community	Prepare a plan of action towards the development of a WATSAN Project	Group discussion	CD-CO worker/s
2. Develop criteria to select core group that will comprise the water association	Enlist people who are interested to work actively that will support CO activities	Community meeting	CD-CO worker/s; Barangay Officials
3. Conduct core group orientation and presentation to the community	Familiarize the people comprising the core group of the water association	Barangay assembly	CD-CO worker/s; Barangay Officials

B. Formation of WATSAN Association

4A. Launch formation of WATSAN association	Community residents conduct initial meeting to formalize formation of water association	Community meeting	CD-CO worker/s; Barangay Officials
5A. Facilitate 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. Draft and ratify 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. Facilitate registration and accreditation of WATSAN association	Registration of water association to appropriate government agencies	Actual registration with concerned government entity	CD-CO worker/s; Association Officers

C. Project Preparation

Activity	Objective	Strategy	Facilitator/Organizer
4B. Conduct feasibility study	Identify potential water source sites	Mobilize community through committee	Technical Team; CD-CO worker/s
5B. Present 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. Present draft 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 Discussion	Technical Team

D. Project Implementation

9. Undertake project presentation	Present to the community the project to be implemented and the responsibilities required of the beneficiaries	Community meeting	Technical Team/CD-CO Workers
10. Conduct Action Planning/Pre-construction Seminar	Generate work plan and tasking for the construction activities; Spell out what to expect during the construction processes	Community meeting	Technical Team
11. Mobilize committee for delivery of materials	Ensure that materials delivered at the community are all accounted for	Specific committee to handle materials	Selected Committee
12. Undertake construction of facility	Construct/Complete WATSAN Facility	Actual Construction	Technical Team

PHASE III: CONSOLIDATION AND SUSTENANCE OF ORGANIZATION

Activity	Objective	Strategy	Facilitator/Coordinator
1. Conduct training on hygiene, sanitation and on health care	Conduct of training on health and sanitation	Community meeting or meeting by tapstand grouping	CD-CO workers; Rural Sanitary Inspector
2. Conduct training on organizational management	Conduct of training on organizational management	Seminar-workshop	LGU/CD-CO worker/s
3. Conduct training on financial management	Conduct a financial management training	Seminar-workshop	LGU/CD-CO worker/s
4. Present, compare/collate tapstand and house rules	Collate similar house rules formulated in the previous activity	Meeting of tapstand leader	CD-CO worker/s
5. Conduct test run of facility/system	Solicit community participation in ocular operation and test run of facility installed	Actual Test Run; Community meeting	Technical Team
6. Undertake water quality test	Ensure potability of water from facility	Collect water sample and submit to DOH for test	Technical Team
7. Conduct training on system operation, maintenance and repair	Conduct a training on O&M and repair	Seminar-workshop	Technical Team
8. Turn-over facility/system to WATSAN Association	To have a formal turn-over of facility/system to officers and members	Turn-over ceremony	CD-CO worker/LGU
9. Conduct Final Meeting	Conduct a final meeting with the water association officers and barangay council	Community meeting	CD-CO worker/s
10. EXIT			

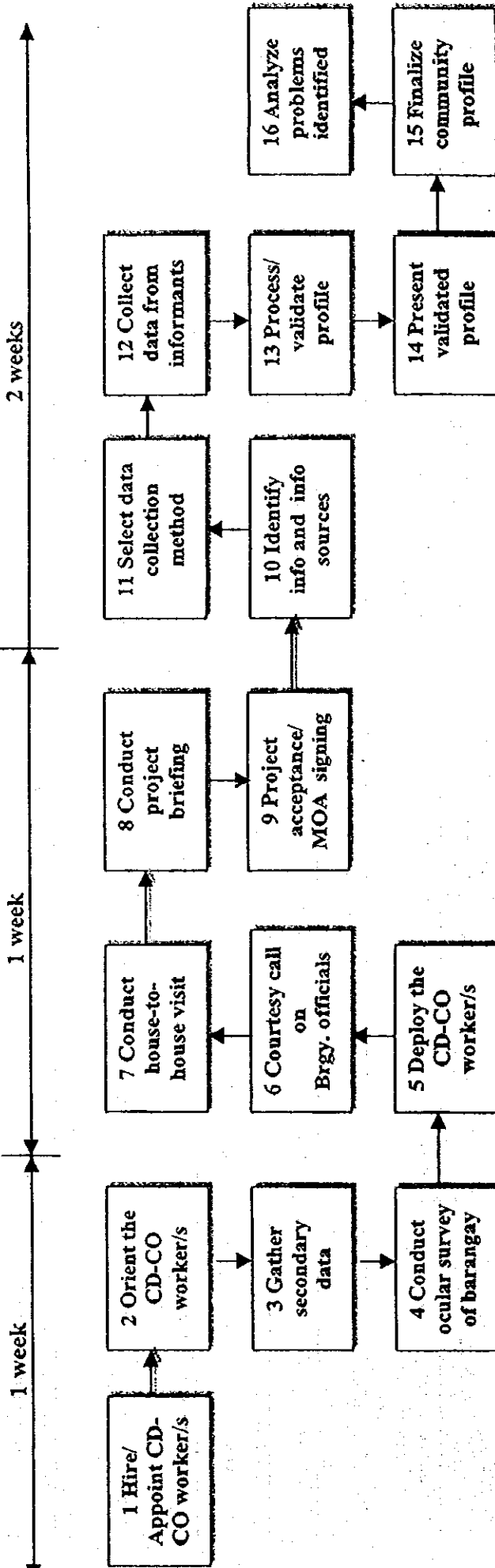
PHASE I - FORMATION OF ORGANIZATION

1 month

COMMUNITY ASSESSMENT

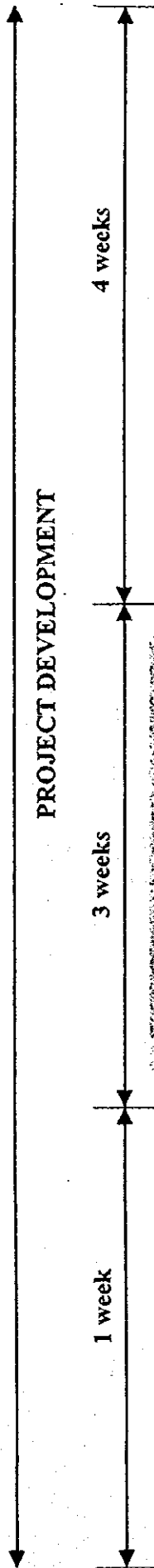
COMMUNITY ENTRY AND INTEGRATION

PRE-ENTRY/ PREPARATORY WORK

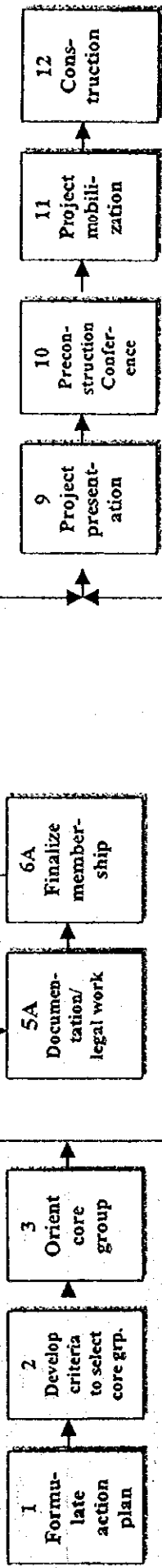


PHASE II - DEVELOPMENT OF ORGANIZATION (LEVEL 1 SYSTEM)

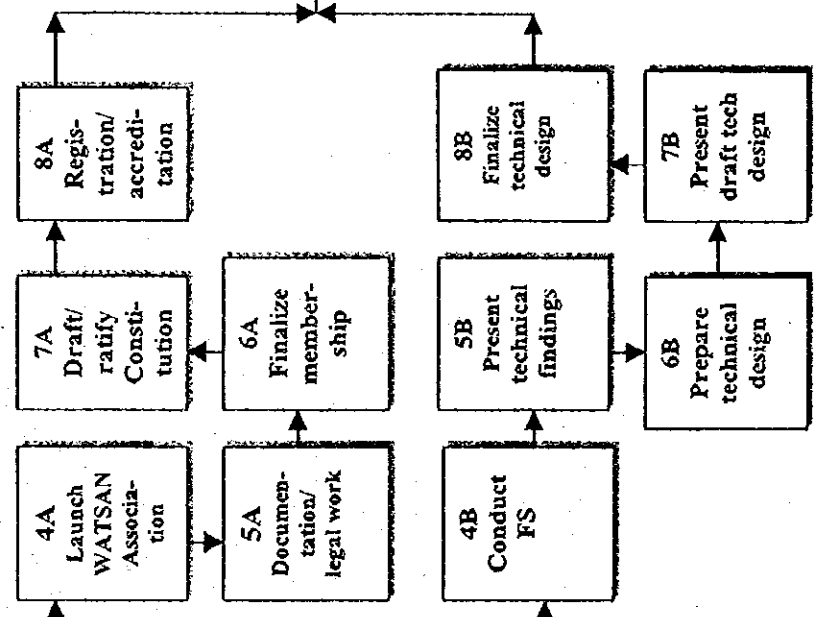
2 months



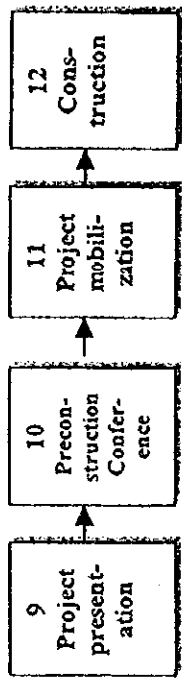
COMMUNITY MOBILIZATION



FORMATION OF WATSAN



PROJECT IMPLEMENTATION



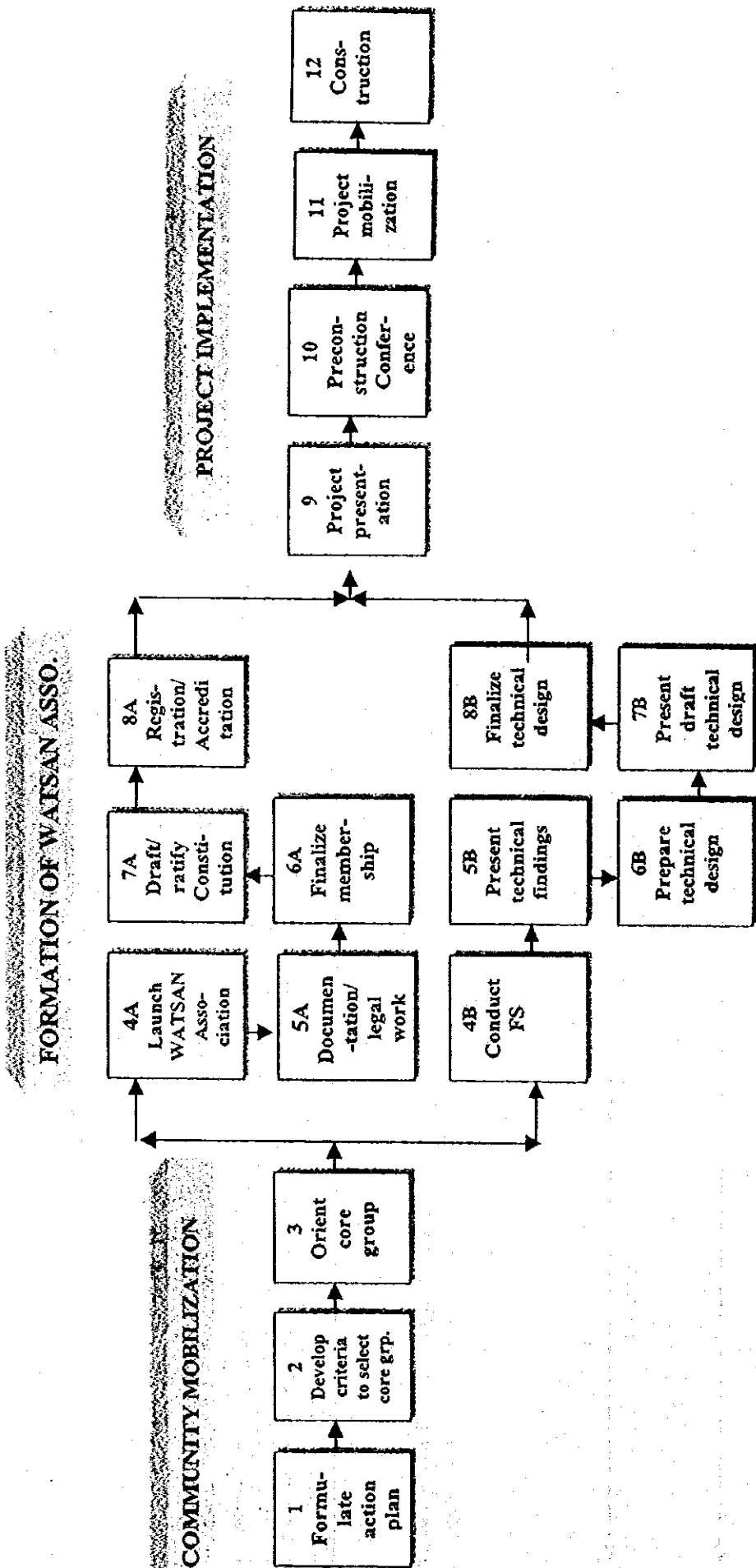
PHASE II - DEVELOPMENT OF ORGANIZATION (LEVEL II)

5 months

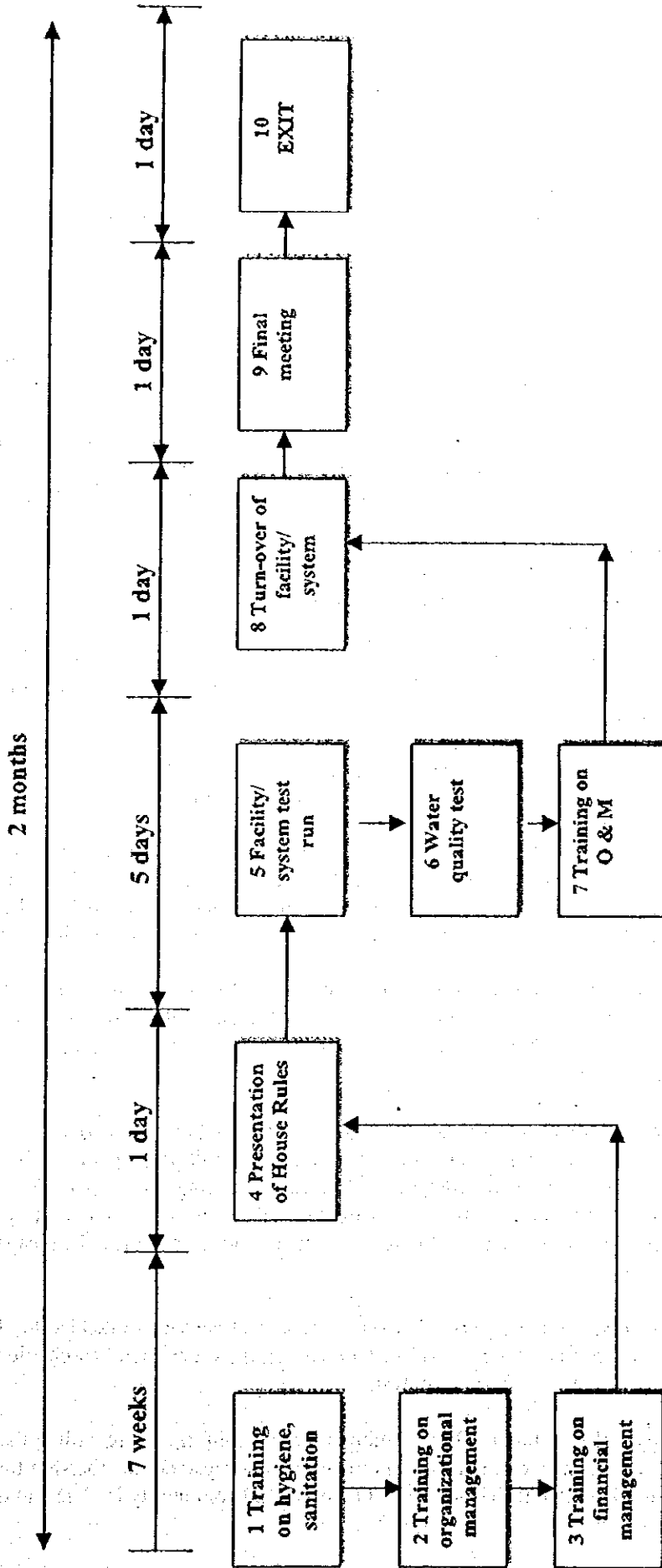
1 week

7 weeks

12 weeks



PHASE III - CONSOLIDATION AND SUSTENANCE OF ORGANIZATION



Typical CD Work

Community Organizing for Water Supply and Sanitation

Community organizing for water supply and sanitation projects is aimed at forming user groups through a process that integrates the hardware (technical aspects) and software (social aspects) components of a water supply and sanitation project.

People's participation, which can be gauged against the extent to which they themselves are involved in the decision-making processes, their willingness to stake local resources, (both in cash and in kind) and the extent to which trainings have improved the knowledge, skills and attitudes of the people are some of the indicators of a good community organizing work.

The Community organizing process is developing a partnership with the community. The Community organizer is simply a catalyst in the community's efforts to build their self-confidence to operate, maintain and sustain their water supply and sanitation service.

The CO Framework

The CO Handbook is one of the tools that a community worker may use as a guide in organizing user's groups for community-managed water supply and sanitation facilities. It is presented in three (3) major stages following the community-organizing framework. These stages are a) Formation of Organization; b) Development of Organization; and c) Consolidation of Organization.

The process contains a chronology of activities that starts with the deployment of community organizer and ends up with his/her exit from the community.

Except for steps 9 and 10 of Stage II and Step 20 of Stage III which need not be undertaken for a Level I, all the rest applies to Levels I and II water supply projects. level I water supply projects refer to point source facility catering to a cluster of ten to fifteen households while level II refers to a waterworks that has a distribution system such as multiple tapstands.

The *Formation of Organization* stage covers activities intended to enlist community participation and make community understand the concepts, processes and importance of organizing a group that will become responsible for eliciting maximum participation for WATSAN activities.

The *Development of Organization* stage covers activities intended to build capability of water users' organization, which include trainings and full participation in both technical and social activities. It also includes the CO worker's sharing and transferring of organization development and community organizing technology to the leaders of the water users' association. In this way, the community will be able to increase their capability for self-management.

The *Consolidation of Organization* stage consists of activities intended to "tie loose ends." This is to ensure that at the exit of the CO worker, the water users' association can sustain its operations without an external catalyst.

The last part of the Handbook is a compilation of useful tips in recording the minutes of the community meetings, contents of a spot map, sample tapstand membership form and tapstand membership list, characteristics of a CO worker and community leaders and others. All these

are appended as additional guides to enhance the organization process and facilitate the attainment of the CO objective.

Community Organizer

The community organization worker as a catalyst is one who believes that the people are the main actors in the processes and that his/her role is that of facilitating the community organizing process; improving the skills and knowledge of the community; and that he/she has to withdraw as soon as the people are ready to manage their affairs.

Objectives of the CO Work

The General Objective of the CO work is to form a community-based water user's association that will operate, maintain and sustain their water supply and sanitation facilities.

Stages of CO Work

Each of the three stages of CO work as contained in the framework is distinctly characterized by various activities needed to ensure that the organization will continue to function even after the exit of the CO worker.

Phase I is characterized by the formal entry of the CO worker to the community. This is marked by courtesy call first to the barangay leaders and then to the community. These activities require thorough understanding of the nature of the project.

The CO worker needs various tools to undertake these activities. A chart preferably in the local dialect that explains the concept of the project and the roles of the various stakeholders is very important. The community profile is one tool that also needs to be validated by the community themselves. The profile serves as a CO tool in facilitating community decisions.

Phase II is characterized by a series of trainings intended to provide adult learning processes to the water users' association. This includes practical and workable approaches needed to synchronize activities and provide appropriate mix of technical and social knowledge and skills to the water users.

Phase III begins when the organization is formalized, water system potability is ensured, legal documents are executed and facility is turned-over to the water users' association for their operation and maintenance. This phase ends when the community organizer exits from the community, leaving behind an organization with positive indicators for sustainability.

1. ENTRY STRATEGIES

CO DEPLOYMENT

Objective	: Indorse the CO worker to the community by provincial and municipal level implementors
Expected Result	: CO worker is introduced to the barangay officials and the community
Suggested Strategy	: Community meeting
Facilitator	: Barangay Chairman
Co-facilitator	: Municipal Level Implementor

Agenda in the first orientation meeting and courtesy call to barangay council:

- Title of the project
- Objectives
- Stakeholders and their roles, responsibilities and accountabilities
- Funding and counterparting
- Project features or components
- How the project will be executed
- Timetable
- Inputs and outputs (largely trainings)
- Role of the intermediaries (NGOs)
- Solicit/request for CO volunteers to participate in profiling and spot mapping

VALIDATION OF COMMUNITY PROFILE AND SPOT MAPPING

Objective : To establish socio-economic, political and technical information about community directly or indirectly related to water and sanitation.

Expected Results : Validated secondary data from the community

Suggested Strategies :

- Home visits
- Focus group discussion
- Visit to RHUs, MPDO, MHO, local school
- Community meeting

CONTENTS OF THE SPOT MAP

- Natural features (creeks, river, lakes, mountains, water sources)
- Man-made structure (houses, buildings, bridges, roads, schools, cemetery, halls, markets, water system facilities)
- Technical data (distance, north orientation, elevations, scale, date prepared, source of information, persons/agencies involved, names of places, boundaries, legend, index to adjoining sheets, coordinates)

2. PRESENTATION OF VALIDATED PROFILE TO THE COMMUNITY

Objective : To further enrich and refine data in the profile

Expected Results :

- Profile validated by the community
- Surfacing of thoughts on:
 - How project will be implemented on the site
 - How the facility will be designed and constructed
 - How the community perceived their role in the project
- Solicit counterpart
- Determine/recommend long list of potential core group members

Facilitator : CO worker

Audience : Key informants (farmers, church leaders, teachers, etc.)

3. DEVELOPMENT OF CRITERIA FOR SELECTION OF CORE GROUP

Objectives : To enlist people interested to work actively that will assist in CO activities

Expected Results : Core group members elected

- Role and function of core group drawn
- Adhoc committees formed and functions drawn
- Committee chairman selected
- Plan of action done

IDEAL SELECTION CRITERIA FOR CORE GROUP MEMBERS

- Must have the time and commitment to do community development activities in their locality
- Proven leadership skills
- Direct exposure and experience in community development project/activities
- Have some basic knowledge and/or skills in community organizing
- Good moral standing
- No criminal record
- Should be one of the beneficiaries
- With good interpersonal relationship with the community
- Should be literate

ROLES AND FUNCTIONS OF THE WATER CORE GROUP

- Initiates the planning and implementation of action on water related activities
- Preparation of water project feasibility study/design community survey and spot map to further validate the importance of the project to the community at large
- Mobilize community resources specifically: the time, skills and efforts of the people
- Resources of the local agency, i.e., money, technical know-how, equipment, machines
- Disseminate information, keeps the community informed about the status of the water project
- Hears and considers suggestions of people with regards to the appropriate activities of the project
- Facilitates the expansion of water core group into Barangay/Rural Waterworks Association.

COMPOSITION OF THE CORE GROUP

- Technical persons who can be trained on the technical aspects of the project
- Individual who are trusted and respected by community
- Those who have a strong liking to work for people
- Those who have a spirit of volunteerism
- Those who are resourceful
- Individuals who are understanding and patient enough to go with the pace of the community
- Together with the community, they should be able to identify the:
 - Objectives of the group
 - Define roles and responsibilities
 - Clear expectations to members and group as a whole

ADHOC COMMITTEES CO-TERMINUS WITH THE CORE GROUP

- Education and recruitment
- Monitoring, evaluation and control
- Coordination and manpower
- Documentation (to include preparation of legal documents)

FUNCTIONS OF THE COMMITTEES

- a. Education and recruitment
 - Project information drive
 - Advocacy on water supply, sanitation, health care and hygiene

- b. **Monitoring, evaluation and control**
 - Inspects and accepts hardware, tools and equipment
 - Acts as property custodian
 - Monitor the evaluation
 - Initiate action planning relative to construction activities
- c. **Coordination and manpower**
 - Coordinate resources from stakeholders
 - Do follow-ups and issue reminders
 - planning and manpower scheduling in terms of number and distribution
 - Coordinate technical activities in project site
- d. **Documentation**
 - Facilitate the issuance of legal documents such as right of way permit, deed of donation, certification water source site, etc.

4. ASSIST IN SITE SELECTION AND FEASIBILITY STUDY

- Objectives : To identify potential water source sites
- Expected Results : Water source site for development identified (or prospecting for wells)
- Suggested Strategy : Technical data gathered

5. PRESENTATION OF TECHNICAL FINDINGS

- Objectives : To come up with recommendations on the technical study
- Expected Results : Decision by the community on the technical findings
- : Water samples collected from agreed upon water source site (for spring only)
- Suggested Strategy : Meeting of the core group
- Facilitator : LGU Technical Team
- CO-facilitator : CO worker

By the end of Phase I of Community organizing work, the following milestones must have been achieved:

- Water Core Group formed
- Adhoc Committees formed and chairman named
- Water source site identified and initial studies done
- Community profile and spot map completed and validated

While at this stage, there is no way yet of gauging the certainty of making the project succeed in terms of a community-managed facility, a thorough understanding by the beneficiaries of the project features, stockholders, tasks, inputs, outputs and other important information about the project which is done formally as the opening salvo of the CO to the community and, later, on a more informal manner, as the CO integrates to the community is one of the most critical part of this phase.

As community organizing progresses, the deepening sessions of the CO worker in reinforcing project concepts such as strategies for community initiatives towards addressing key issues affecting their community that are directly or indirectly related to water are reinforcing mechanisms in providing impetus to the development of an informal water users' organization, as infant as a water core group.

6. HUMAN RESOURCE DEVELOPMENT TRAINING

- Objective : To build a strong and cohesive team from among the core group members and barangay officials (if appropriate)
- Expected Results : Trained core group members on Human Resource Development
- Facilitator : CO worker
- Co-facilitator : Core group members

7. PRESENTATION OF TECHNICAL DESIGN

- Objective : Generate community decision on appropriate technology to be used
- Expected Results : Generate community decision on appropriate technology to be used
- Suggested Strategy : Community meeting to discuss
- Initial findings on technical feasibility study
- Presentation of technology options
- Facilitator : Technical Team

8. FACILITATION ON LEGAL WORKS AND DOCUMENTS

- Objective : Prepare necessary legal documents
- Expected Results : Legal documents required in WATSAN projects prepared
- Facilitator : Committee Chairman
- CO-facilitator : CO Worker

LIST OF DOCUMENTS REQUIRED IN IMPLEMENTING WATSAN PROJECTS

- Barangay Resolution desiring to avail of a water facility to be submitted to the LGU
- Building permit of WATSAN facility, from LGU
- Waiver form DENR (if water system components such as the source, tank, pipelines are situated in areas other than private lands) to use the site(s) for community development
- Right of way permit from private land owners, specifically for spring sites and pipeline routes
- Deeds of donation from private landowners for water tank and tapstand sites
- Certificate of water quality source to be developed and tapped, from DOH
- Certificate of water quality produced through the water system facility, from DOH
- Letter of acknowledgment from the municipal mayor endorsing the water system management to the water users' association formed
- Accreditation pertinent papers (needed for the accreditation of RWSAs/BWSAs at the LGU level)
- Water rights
- Water permit
- Drilling permit

9. PRESENTATION OF DRAFT TECHNICAL DESIGN (Skip This Activity If Level I)

- Objective : To inform the community of the results of the feasibility study conducted

Expected Results:

- Location of major components such as well drilling site, transmission and distribution pipelines
- Tanks and tapstands are identified
- Community acceptance of design
- Local counterpart generated

Suggested Strategies:

- Community meeting
- Site visit to proposed structures/facilities' location

INFORMATION TO BE PRESENTED TO THE COMMUNITY

- Role of technical people
- Contents of typical water system technical plan
- Presentation of design specifications and explanation of plan contents /drawings in layman's terms
- Presentation of program of work (POW) , bill of materials and cost estimates
- Validation of data gathered and used in the designing
- Solicit ideas, opinions, comments and preferences
- Come-up with compromises, and if appropriate determine local counterpart

10. MOBILIZATION OF COMMITTEE ON DOCUMENTATION

(skip this activity if Level I)

- Objective : To facilitate additional legal work requirement for tapstand, pipeline and other major system components
- Expected Results : To ensure a formal listing of tapstand membership
- Expected Results : Completed legal documentation requirement membership per tapstand known
- Facilitator : Committee Chairman, Committee on Documentation and Education and Membership
- CO-facilitator : CO worker

11. CONFIRMATION OF MEMBERSHIP BY TAPSTAND

- Objective : To confirm final membership by tapstand
- Objective : To undertake information campaign on the importance of grouping and houserules formulation
- Expected Results : To select tapstand leader
- Expected Results : Final listing of membership per tapstand
- Expected Results : Formulated tapstand houserules
- Expected Results : Tapstand leader selected
- Suggested Strategy : Undertake meeting per tapstand
- Facilitator : CO worker
- CO-facilitator : Chairman, Committee on Education and Recruitment

16. PRE-CONSTRUCTION CONFERENCE

Objective	:	To generate work plan and tasking for the construction activities
Expected Results	:	Activities and roles identified
	:	Commitment to participate generated
Suggested Strategy	:	Hold a community meeting
Facilitator	:	Technical team
Co-facilitator	:	CO worker

AGENDA IN THE PRE-CONSTRUCTION CONFERENCE

- Presentation of schedule of work and tasking
- Determine quantities of resources needed
- Labor arrangements
- Salaries/wages, if any that will be incurred
- Mobilization of committees
- Arrangement on materials storage

17. MOBILIZATION FOR DELIVERY OF MATERIALS

Objective	:	To ensure that materials delivered at the community are all accounted for
Expected Results	:	Materials delivered all accounted for and in accordance to the agreed upon specifications in the technical design
Suggested Strategy	:	Specific committee to handle delivery, and storage of materials, and, if need be, disposition of materials
Facilitator	:	Committee to be agreed upon by the core group
Co-facilitator	:	CO worker

18. ACTION PLANNING FOR CONSTRUCTION

Objective	:	To spell out what to expect during the construction processes
Expected Results	:	Smooth implementation of construction activities
Facilitator	:	CO worker
Co-facilitator	:	Technical Team
Suggested Strategy	:	Core group meeting

STEPS TO BE UNDERTAKEN:

- Identify activities related to construction
- Define activity schedule and resources required
- Identify the type of manpower skills required per activity
- Monitoring and documentation of major water system components
- Progress reporting, evaluation and action planning
- Monitoring and documentation on construction of major water system components
- Repeat cycle until completion

19. DEVELOPMENT OF EXIT PLAN

Objective	:	To plan for the transfer of responsibility from CO worker to core group members
Expected Results	:	Core group informed of activities ahead and the expected time of withdrawal of the CO worker
	:	An exit plan containing task list and specific person responsible
	:	Organizational development program developed
Suggested Strategy	:	Core group meeting
Facilitator	:	CO worker
Co-facilitator	:	Technical Team
Audience	:	Community members

At the end of the Development of Organization Phase, the following milestone must have been achieved:

- Basic organizational development training such as value formation, leadership and team building and sanitation, health care and hygiene education must be done
- CO exit plan jointly developed by the CO together with the community
- All legal documents completed
- Pre-construction conference done
- Materials for construction delivered and accepted by the community
- Organizational strengthening such as involvement of a greater number of community members participating in mobilization activities and increased awareness on key issues through information exchange

The success of the phase rests on the extent the community had participated in the activities and learned from the processes as inputs to the community's capability for self-management. On the other hand, one of the most crucial factors to participation rests on the depth and broadness of their understanding of the project concept, features, processes, stakeholders, tasks, and responsibilities coupled with the need for water supply facility, a condition validated in the first orientation meeting done by the CO upon entry to the community.

The inputs that will be provided by the CO and the technical team will provide the necessary honing skills for the core group and tapstand leaders to have the confidence to accept more challenges in the next phase. These challenges are contained in the Exit Plan, which was formulated by the local stakeholders. The Plan will be implemented in Phase III stage to signal the weaning process of the community from the CO worker.

20. PRESENTATION, COMPARISON & COLLATION OF TAPSTAND HOUSERULES (skip this activity if Level I)

Objectives	:	Collate similar houserules formulated in the previous activity
Expected Results	:	Collated houserules
	:	Identified houserules appropriate for by-laws
Suggested Strategy	:	Meeting of tapstand leaders
Facilitator	:	CO worker
Co-facilitator	:	Core Group Member

21. DRAFTING OF CONSTITUTION AND BY-LAWS

Objective	:	To develop a set of policies and by-laws that will govern the operation of the organization
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Expected Results : Constitution and by-laws ready for ratification
Suggested Strategy : Meeting of core group and tapstand leaders

22. RATIFICATION OF CONSTITUTION, BY-LAWS AND POLICIES

Facilitator : CO Worker
Co-facilitator : Core Group Member
Expected Results : Constitution ratified
: Officers elected

23. FACILITY/SYSTEM TEST RUN

The community participates in ocular operation and test run of facility installed

Facilitator : Technical Team

24. WATER QUALITY TEST

Objective : To ensure potability of water from facility
Expected Result : Water facility is to provide potable water to community
Suggested Strategy : Collect water sample from tapstand
: Submit sample to DOH for test and certification

25. TURN-OVER OF FACILITY/SYSTEM

Officers elected organize and manage facility turnover ceremony

26. OPERATION, MAINTENANCE AND REPAIR TRAINING

Trainer : Technical team
Trainees : Community-appointed Plumber, Meter Reader (if there is a meter installed), Tapstand leader and RWSA/BWSA officers

27. FINANCIAL MANAGEMENT TRAINING

Trainer : NGO, LGU or Water District
Trainees : Bookkeeper, Tapstand Leader and RWSA/BWSA officer

28. RWSA/BWSA REGISTRATION AND ACCREDITATION

Facilitator : RWSA/BWSA officer
Co-facilitator : CO worker

Registration of BWSA/RWSA to appropriate government agencies is done. Options on where to register shall be presented and decided upon by the organization.

Possible Options:

In the absence of a clear national policy on B/RWSA registration, the following Registering Agencies could be presented as options:

- a. Securities and Exchange Commission
- b. Bureau of Rural Workers
- c. Local Waterworks Utilities Administration

- d. Department of Social Welfare and Development
- e. Cooperatives Development Authority

Accreditation of BWSA/RWSA is done through the municipal local government unit.

29. FORMAL EXIT OF THE CO WORKER

Facilitator	:	RWSA Officer
Co-facilitator	:	CO worker
Suggested Strategy	:	Hold a community meeting
Agenda	:	Assessment of CO Exit Plan
	:	Planning for the operation and management of water facility
	:	Scheduling of CO visits
	:	Scheduling of RWSA/BWSA and CO formal linking with other organizations and agencies
	:	Formal turn-over of CO responsibility to RWSA/BWSA

At the end of the Consolidation Phase, the following milestones are achieved:

- Facility is turned-over to RWSA/BWSA and is functioning as intended and has its set of officers, constitution and by-laws and policies
- Plan for operation, maintenance and repair of system is installed

At the end of the community organizing process, the degree of capability of RWSA/BWSA in the operation and maintenance of water supply facility and maintaining their organizational health can be gauged on the extent of participation of the members in resolving problems and making decisions. The extent of focus of team building and leadership inputs is crucial in how the members of the RWSAs/BWSAs are willing to make amends, allow some compromises among each other. On the other hand, the technical soundness of the design and execution of the construction ensures the long-term sustainability of the system.

By this time, the CO has exited but maintains monitoring visits until he/she is fully confident that the organization is strong enough to take decisions, plan and implement their WATSAN related activities and knows where to access support (in terms of financial, institutional and technical) when needed.

Source: *Water Supply and Sanitation Program Management Office
Department of the Interior and Local Government*

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