8.6 Facilities, Equipment and Rehabilitation Required to Meet the Target Services

8.6.1 Water Supply

(1) Required water supply facilities

Urban water supply:

Urban water supply facilities required by target year shown in Table 8.6.1 were estimated as the required number of house connections based on the additional service coverage.

As reference, the following requirements were also estimated:

- daily average water demand at 100 lpcd consumption rate, and
- number of deep wells to meet the daily maximum water demand based on the groundwater productivity.

(daily maximum water demand = 1.3 x daily average water demand)

Information pertaining to the expansion plan of Level III systems was arranged to be indicated in Table 8.6.1 and details presented in Table 8.6.2, however, required data were not available during this PW4SP preparation.

Rural water supply:

Rural water supply facilities required by target year shown in Table 8.6.3(a) were estimated as the number of Level II systems with the number of communal faucets and the number of Level I wells broken-down to deep and shallow wells. Forty-five (45) untapped springs suitable for Level II system were confirmed during this PW4SP preparation.

(2) Required well drilling and rehabilitation equipment

Presently, one unit each of percussion and rotary type drilling rig is operational at DPWH-DEO in the province.

Taking into account the maximum utilization of existing equipment, the additional number of required equipment is estimated as described below.

Applicable type of well drilling equipment is determined considering the geological formation of the province and the easiness to operate technically. Both types of percussion and rotary are suitable for the soft and hard formations, but the percussion type can be easily operated and maintained without special training to drillers compared with the latter. Also, it is very useful to bore in boulders or cobbles formations. Thus, the drilling equipment of percussion type is recommended to be selected in the PW4SP preparation.

Table 8.6.1 Urban Water Supply Facilities Required by Target Year

	Reference	ce on Exp	ansion of E	Reference on Expansion of Existing Level III System	I III Syster	ı.		hase I (2003)	Phase I (2003) Requirements			Phase II (2016	Phase II (2010) Requirements	
· .			Coverage	c in 1997					Daily Average	Number of			Daily Average	Number of
Name of Municipality	Name of		No. of		Type of	Plan for		Number of	Water			Number of	Water	
	Operating Body	Area		Served	Water	Expansion		House	Demand	Dev't./	Population	House	Demand	Dev't./
	£			Population	Source	•	to be Served	Connections	(m ³ /day)	Deep Well	to be Served	to be Served Connections	(m ³ /dav)	Deep Well
Alabel (Capital)	Alabel WD	Urban		1,488				٠	,					
		Rural			MC	°Z	480.	95	**************************************		22,306	5,577	2,231	m
		Fotal	į	1,488										
	San Miguel Coop.	Urban						-						
		Rural	_	350		°Z			•					
		Total	-	350			:		1.					
	Sto. Nino Com.	Urhan	-	1,150									-	
		Rural			ρĸ	Ž.								
	<u> </u>	Total	_	1,150		:								
		Urban	2	2.638										
	Municipal Fotal	Rural	2	350		1			. :					
-		Total	4	2,988								-		
Glan	Glan WD	Urban	-	4,100										
		Rural		336	ΜQ	ž	1,583	289	158		23,522	5.881	2,352	4
		Total	2	4,436		٠		<u></u>	٠.					
Кіатьа	Not Applicable	Urban	N.A.	N.A.										
		Rural	Z.A.A.	Z.A.	Ϋ́	Z.	833	173	83	_	13,360	3,340	1.336	М
		Total		Ī				-:						
Maasim	Maasim WD	Urban	2	870										
		Rural			SS	No.	672	132		,	8.649	2,162	865	. 71
		Total	2	870									•	•
Maitum	Not Applicable	Urban	N.A.	N.A.										
		Rural	N.A.	N.A.	Z. Ą.	ź Ż	•				11,140	2,785	1,114	N
		Total						_						
Malapatan	Malapatan WS	Urban	.1	006										
		Rural			 ≧	2	1,776	334	178		25,363	6,341	2,536	4
		Total	_	006									•	
	Lun Padidu WS	Urban	-	069		-	:							
		Rural			À	2 Z								
		Total	_	069	1									
		Urban	7	1.590	. 8 1.	1				:				
	Municipal Total	Rural			:									
		Total	2	1.590										
Malungon	Not Applicable	Urban	Ą.	Ä.			000		200	,		-	i c	-
		Kurai	Y.A.	Z.	 ∠	÷.	10,850	2,013	(80,1	7	50,737	7.684	5,0,5	4
		Totai												
		Urban	7	9.198		*****								-
Provincial Total		Rural	7	989			16,194	3,036	1,619	7	135.077	33.770	13,508	[2]
		total	٧ _	7.554		E 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13								

Table 8.6.2 Plan for Expansion of Existing Level III Systems

		Additional Areas Additional	Additional	Addition	Additional Water
	Name of Onerating			Sou	Sources
Name of Municipality	Body	Barangay to be Covered	Population to be Served	Type	Capacity (m ³ /dav)
Alabel (Capital)	Alabel WD				
•	San Miguel Coop.				
	Sto. Niño Coop.			-	
	Municipal Total				
Glan	Glan WD				
Maasim	Maasim WD	-			
Malapatan	Malapatan WS				
1	Lun Padidu WS				
	Municipal Total				

Table 8.6.3(a) Rural Water Supply Facilities Required by Target Year

Table 8.6.3(b) Rural Water Supply Facilities Required by Target Year

								-								
			Phase	Phase I (2003) Requirements	equirement	ys .		:			Phas	e II (2010)	Phase II (2010) Requirements	ents		
		Pc	Percenatge Allocate	located to I	ed to Public Facility (20%)	ity (20%)				Pe	rcenatge A	Hocated to	Percenatge Allocated to Public Facility (20%)	cility (20%	3	
Name of Municipality		Per Percenta	Percentage Allocated Percentage Allocated for I	cated for P d for Public	for Public Wells (95%) and Jublic Spring Development (5%)	(95%) and	1 (5'%)			Percenta	entage All ge Allocat	ocated for ed for Publ	Percentage Allocated for Public Wells (95%) and Percentage Allocated for Public Spring Development (5%)	lls (95%) a Jevelopmer	nd nt (5%)	
		Number of Deep Wells	Deep Wells		No. of Shallow	Total	No. of	Grand	~	Number of Deep Wells	eep Wells		No. of		No. of	Grand
	40 m	80 m	120 m	Sub-total	Wells		Dev.	Total	40 m	80 m	120 m	Sub-total	Wells	l otal	Spring Dev.	Total
Alabel (Capital)									49			49	121	159	100	45
Glan									53			53	22	75	7 4	79
Кіатьа									6			6	34	43	2	45
Maasim									81			18	7	25	-	26
Martum										9		9	21	27	-	28
Malapatan						-			30			30	7	37	2	39
Malungon	-	77		77	19	96	·K.	101		144		144	36	180	10	190
Provincial Total		77		77	61	96	ur.	101	150	150		309	139	448	23	471
																•

Medium size percusion drilling rig (truck-mounted type for deep well):

Average performance

- 1 well/30 days (5 m/day of drilling rate with finishing work)

Annual accomplishment

9 wells/year (365 days/year + 30 days/well x 0.75)

Required number

- 3 sets for the total 106 deep wells

Well rehabilitation equipment:

Average performance

- 1 well/7 days (well redevelopment and finishing work

Annual accomplishment

- 39 wells year (365 days/year ÷7 days/well x 0.75)

Required number

- 1 set for 10% of 106 Level I deep wells

Support vehicle:

Type - pick-up truck with winch, double cab

Required number

- 1 unit for well rehabilitation

Considering the utilization of existing drilling rigs, the following equipment shall be mobilized/procured either by the private sector or by the LGUs to accomplish the physical targets:

- 1 set of medium size percussion rig for the total number of deep wells;
- 1 set of well rehabilitation equipment for 10% of deep wells (at least 1 set shall be held by the provincial government); and
- 1 unit of support vehicle for well rehabilitation.

In addition to the above, service truck equipped with crane are required for a medium size rotary and percussion rig for hauling drilling tools and water.

Table 8.6.4 Urban Household Toilets Required by Target Year

			Phase	_	(2003) Requirements	ents					Pha	Phase II (2010) Requirements	Requirem	tents		
Name of Municipality	Ad	ditional H1	Additional HHs to be Served	ved	-	Vo. of HHs	No. of HHs to be Served	p	Ade	litional III	Additional IIHs to be Served	pav	Z	io. of HHs	No. of HHs to be Served	þ
	Flush	Flush Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush	Pour Flush	Pour Flush VIP/ Dry	Total	Flush	Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush	Pour Flush VIP/ Dry	VIP/ Dry	Total
Alabel (Capital)			255	255			255	255	3,112	564		3,676	3,112	564		3.676
Glan	569	197	296	1,126	569	261	296	1,126	2.982	1,208		4.190	2,982	1,208		4,190
Kiamba	434	248	226	806	434	248	226	806	1,285			1,285	1,285			1,285
Massim	298		154	452	298	-	154	452	626	4		953	939	14		953
Maitum		402	171	573		402	171	573	1,364			1,364	1,364			1,364
Malanatan	867		434	1,549	867	248	434	1,549	2,649	45		2.694	2,649	45		2,694
Malungon	866		491	2,559	866	1.070	164	2,559	4,091	1,099		5,190	4,091	1,099		5,190
Provincial Total	3,166	2,229	2,027	7,422	3,166	2,229	2,027	7,422	16,422	2.930		19,352	16,422	2,930		19,352

Table 8.6.5 Rural Household Toilets Required by Target Year

			Phas	Phase I (2003) Requirements	Requirem	ents					Phas	Phase II (2010) Requirements	Requirem	ents		
Name of Municipality	Add	itional HH	Additional HHs to be Served	ved	-	to, of HHs t	No. of HHIS to be Served		Add	Additional HHs to be Served	s to be Ser	ved.	Ň	o. of HHS t	No. of HHs to be Served	
	Flush	Flush Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush	Pour Flush	Pour Flush VIP/ Dry	Total	Flush	Pour Flush VIP/ Drv	VIP/ Drv	Total	Flush	Pour Flush VIP/ Drv	VIP/ Drv	Total
Alabel (Capital)			1,247	1.247			1.247	1.247	350	3.056		3,406	350	3,056		3,406
Glan		2,455	1,536	3,991		2,455	1.536	3,991	329	4,990		5,319	329	4,990	~~-	5,319
Kiamba			786	786			786	786		3.235		3,235		3,235		3,235
Maasim		488	165	1,079		488	165	1.079		2,320		2,320		2,320		2,320
Maitum		115	655	770		115	655	770	3	2,469		2,469		2,469		2,469
Malapatan		1.203	089	1,833		1.203	630	1.833		2,564		2.564		2,564		2,564
Malungon		4,812	2,122	6.934		4.812	2.122	6.934	:	12,705		12,705		12,705		12,705
Provincial Total		9.073	7,567	16.640		9,073	7.567	16,640	679	31,339		32.018	679	31,339		32,018

Table 8.6.6 Public School Toilets Required by Target Year

	Phase I (2003	3) Requirem	ents	Phase II (201	0) Requiren	ients
Name of Municipality	Additional Public School Students to be Served	No. of Toilet Unit	No. of Toilet Facilities	Additional Public School Students to be Served	No. of Toilet Unit	No. of Toilet Facilities
Alabel (Capital)	4,953	124	25	9,501	238	48
Glan	4,942	124	25	10,186	255	51
Kiamba				4,910	123	25
Maasim	2,879	72	15	3,228	81	17
Maitum				3,043	77	16
Malapatan	4,223	106	22	5,138	129	26
Malungon	9,194	230	46	16,295	408	82
Provincial Total	26,191	656	133	52,301	1,311	265

Table 8.6.7 Public Toilets Required by Target Year

	P	hase I (2003) R	lequirements		I	hase II (2010)	Requirement	S
Name of		Number of Pu	blic Toilets			Number of P	ublic Toilets	
Municipality	Public Market	Bus/Jeepney Terminal	Park/ Playground	Total	Public Market	Bus/Jeepney Terminal	Park/ Playground	Total
Alabel (Capital)	2	1	1	4	3	2	2	. 7
Glan	. 5	1	1	7	- 5	3	2	10
Kiamba	1 .	2	5	8	1	2	6	9
Maasim	2	1	2	5	- 3	1	2	6
Maitum	2	1	2	5	2	1	2	5
Malapatan	2	1 -	1	4	2	2	l i	5
Malungon	5	2	3	10	5	3	3	11
Provincial Total	19	9	15	43	. 21	14	18	53

SEC	CTOR	and the second	 I/O (0.7A) (1) 	11.30 2 3 30 1 30	95 asid: Az a17	ION NTS	and the second of the second o

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

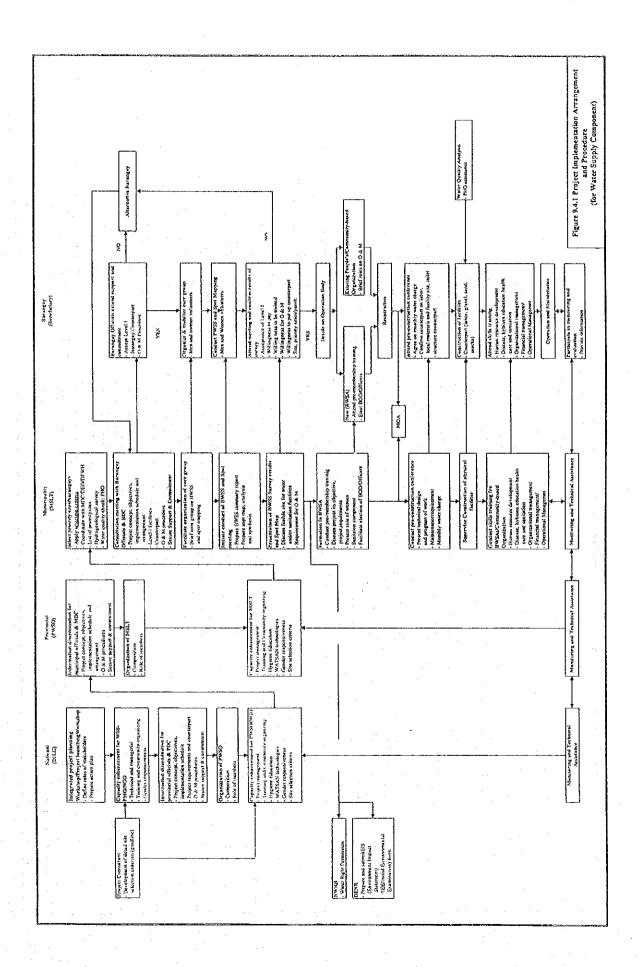
Project Planning/Launching Workshop as start-up activity will be conducted to introduce and orient the implementers on the Project, define their roles, responsibilities and relationships among them and formulate provincial action plans. The Consultant, upon completion of the training needs assessment 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.

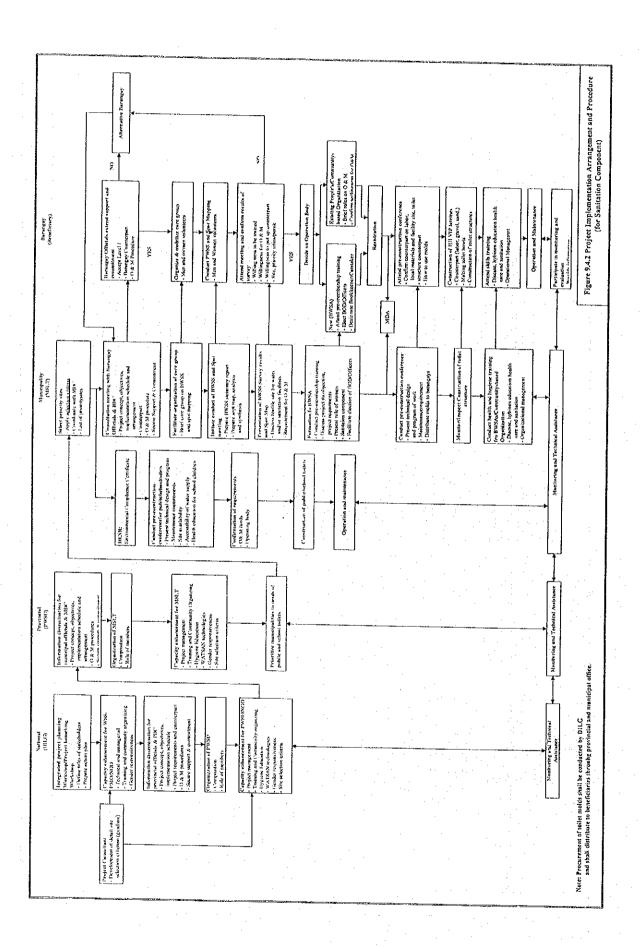
(2) Local Government Level

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.





N. Company

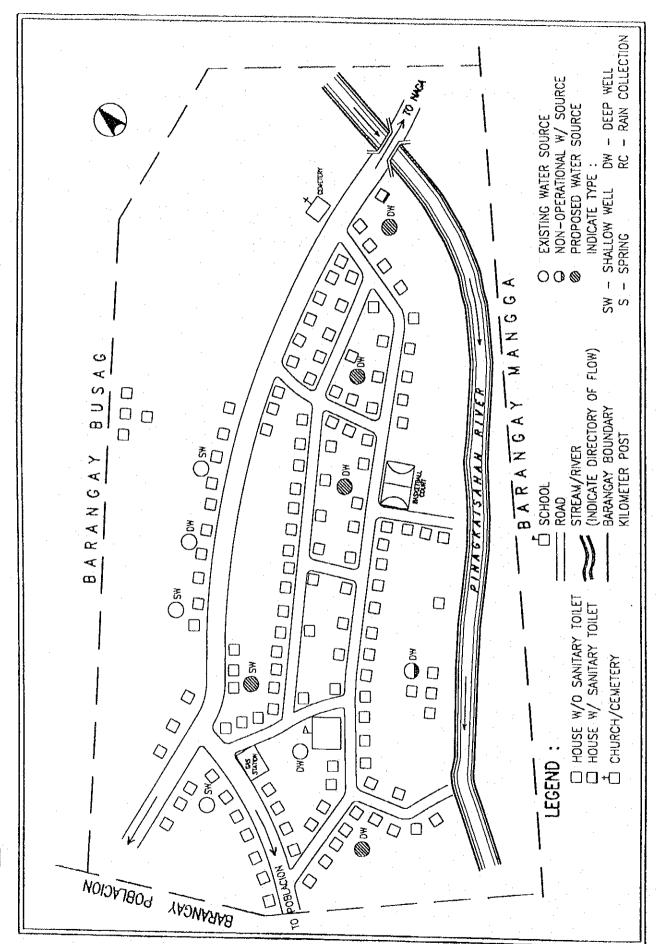
Proposed Site Selection Criteria

Barangay:	Municipality: Provin	nce:
(1). Requi	red Items	
Item No	o. Description	Score
1.	No alternative water source except ground water	OK or Not
2.	Acceptance of Level I facility	OK or Not
(2) Techn	ical & 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) Commi	nnity Interest and Involvement	40%
Item No	o. Description	Score
1.	Willingness to assume responsibility for operating and	10%
	maintenance of the facility/ies	*
2.	Willingness to be trained on O&M	5%
3.	Willingness to pay for water fees	15%
4.	Willingness to put up counterpart	10%
	er of the property of the contract of the cont	
(4) Total	Score	
Item No	o. Description	Score
(1)	Required items	OK or Not
(2)	Physical requirements	
(3)	Community interest and involvement	
	Total Sagra	

Proposed Capacity Enhancement Program

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

4. Capacity Enhancement for Operating body (BOD/Officers,	1. Project concept (objectives, components, requirements, implementation arrangement, O&M systems and procedures, etc.)
Bookkeeper, Carctakers)	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



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.
- The map can also be used to support funding requests for other water and/or sanitation facilities.
- 4) The map may also be entered into a national data base.

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

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

BWSA Formation

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

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

The formation activities of the BWSA are divided into three phases: pre-formation/social preparations, 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

Pre-Formation/Social Preparation Phase 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 Baranga identification and prioritization of community needs. The decision on the acceptance of Develop Level I water facility and barangay counterpart shall emanate from them. Barangay Water Supply and Sanitation Survey/Spot Map A core group composed of men and women volunteers will conduct BWSS and spot 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 mapping. The survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) The survey results and spot map will be presented to the barangay officials, core group public toilets. 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 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.		Rarangay Activities	Responsible	Duration	Cost
Pre-Formation/Social Preparation Phase Consultation with harmapy officials/devolpment councils (First Meeting). Consultation with harmapy officials/devolpment 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 managing the project. They are primarily responsible for the Level I water facilities and bearing community needs. The decision on the acceptance of Level I water facilities and women volunteers will conduct BWSS and spot A core group composed of men and women volunteers will conduct BWSS and spot A core group composed of men and women volunteers will contract 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 be presented to the barangsy officials, core group presents and spot map will be presented to the barangsy officials, core group prospective water users of the facilities. The decisions of the community members will be confirmed in terms of acceptance of Level I vater facilities, to be trained and to put up counterpart such as labor, site, and local materials. The results facilities, to be trained and to put up counterpart such as labor, site, and local materials. The results facilities in the barangsy as well as the most feasible site of sanitation facilities, and houses in need of latrine. The community members will decide among themselves which example the provision of water and sanitation facilities and houses in need of garner, priority in the provision of water and sanitation facilities. The community-based organization, form a new one (BWSA) or merge/consolidate with existing water association.				(Day)	
Consultation with barangay officials/development councils (Pirst Meching) The activity aims to obtain the support, commitment and advive participation in planning, implementation and managing the project. They are primarily responsible for the Barangay Officials bicketification and prioritization of community needs. The decision on the acceptance of Development Council Level I water facility and barangay counterpart shall emanate from them. Barangay Water Supply and Sanitation Survey/Spot Map A core group composed of men and women volunteers will conduct BWSS and spot map will identify and barangay ware lasting for the O&M as well as proviston of counterpart. Spot map will identify the most feasible site for Level I facilities, HH latrines, school and public tolicies. 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 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 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 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 mergefoonsolidate with existing water association.	ز ا				
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 men and women volunteers willingness to underrake 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. 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 and prospective water users of seceptance of Level I water facilities, site of the water facilities, the decisions of the confirmed in terms of acceptance of Level I water facilities, site of the water facilities, the most feasible site of sanitation facilities and houses in need of latrine. The community members will decide among themselves which sitosyburyoks will be given priority in the provision of water and sanitation facilities. The community-based organization, form a new one (BWSA) or merge/consolidate with existing water association.		elopment councils (First Meeting) nmitment and active participation in planning, st. They are primarily responsible for the ity needs. The decision on the acceptance of part shall emanate from them.	50; //MSLT; gay Officials ppment Council	0.5	
ay officials, core group community members lities, site of the water anintain the facilities, to l materials. The results sanitation facilities and mong themselves which anitation facilities. The whether to tap existing merge/consolidate with	6	1 1 1	50; //MSL/I; nd Women Volunteers	5	P600
	8	ay officials, core group in community members lities, site of the water naintain the facilities, to I materials. The results assible site of the water sanitation facilities and mong themselves which anitation facilities. The whether to tap existing merge/consolidate with	50; //MSLT; :ctive Users	0.5	P500

<u> </u>	B. Formation Phase			
J	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	CO/NGO; PWSU/MSLT; Prospective Water Users		P1,000
· <u>- · · · · · · · · · · · · · · · · · · </u>	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.			
<u> </u>	5. Meeting of the Board of Directors (Fourth Meeting) The first meeting of the BOD is conducted to discuss in details the duties and Paresponsibilities 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	≟-	P1,000
	6. Registration The operating body (existing community organization or BWSA is registered to give it Collegal personality to enter into a contractual obligation)	BOD/Officers CO/NGO; PWSU/MSLT;		
1	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 facilities are presented to the officers and members of 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	۸	P500

10	5 P4,400	Continuous P1,800	Continuous	23.5
CO/NGO; PWSU/MSLT; BOD/Officers members	CO/NGO; PWSU/MSLT; BOD/Officers Bookkeeper/Caretaker	MSLT/RHW/BHW	PWSU/MSLT; BOD/Officers	
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 turnover ceremony is held witnessed by barangay officials/leaders. BOD/officers and members the association and P/MSLT members.	Skills Training (Sixth Meeting) Skills training aims to build the capacity of project beneficiaries in planning, proper operation, repair and maintenance of water and sanitation facilities. This will also create and awareness among the project beneficiaries on the importance of proper hygiene and the need to main a health environment BOD/officers will be trained on organizational management, bookkeeper on financial management/bookkeeping and caretaker on operational management (operation, maintenance and repair of wells hand-pumps, etc).	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.	C. Post Formation Phase 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.	TOTAL

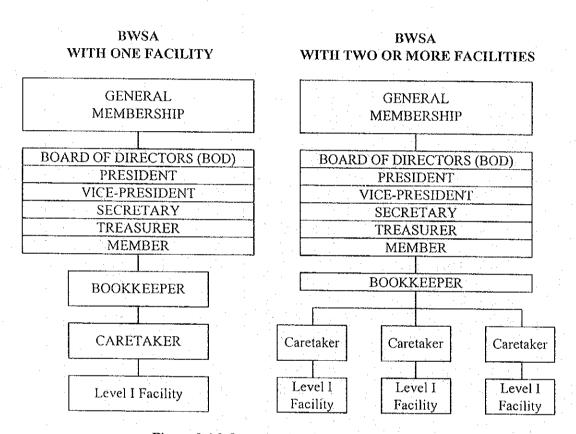


Figure 9.4.3 Organization Structure of BWSA

Sample Manifest

MANIFESTO RESOLUTION

We,	household heads (men or women) of Barangay,
Municipality	of, Province of, seek the the Provincial Government in putting up a Level I water system in our area.
assistance of	the Provincial Government in putting up a Level I water system in our area.
	cious of the attendant responsibilities in operating and maintaining the facilities, we reselves 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.
	ensure the construction, smooth operation and proper maintenance of the water supply 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:						-			
		c. Right to	vote hold elective be informed use the assoc	of the ass	ociation's acilities	s affairs				
	6.	That we wassociation'	ill hold an a	nnual mo	eting eve officers	ery for one	year.		, to discus	s the
NOV 19	, THER	EFORE, we l	nereunto set	our hand	s this			day of		
	_	ED NAME	·		SIGNA	TURE			CTN	
1.						- 1 -				
2.				- `	·.					
3.		:						<u> </u>		
4.									 	
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	(Name of BWSA)	
	(Barangay, Municpality)	
	(Province)	· · · · · · · · · · · · · · · · · · ·
ne Board of		Date
d Conitatio	Barangay Waterworks n Association	
d Salmano		
entlemen:		
pledge t by the F	on Association of avail of its services of providing to faithfully obey and comply with the rules and regression of Directors. Attend all meetings which will be called by the Attend training/seminars which will be condimembers; Pay monthly water fee contributions for oper recovery of the facilities as may be prescribed by Observe proper utilization of water and previously the Association; Assist in the installation of the water facility by snacks, and	BWSA Board of Directors/Officers; ucted by PWSU/MSLT for BWSA ration, repair, maintenance and cosy the Board; ventive maintenance of facilities as
6.	Help attain the objectives of the Association.	
	rmation about myself and my household, please refe	er to my information sheet at the back
page.		
		Signature of Applicant Over Name in Print
-		
		Dight Thumhmark

BWSA Member Information Sheet

Age:	Civil Status:		Sex:
			DON.
Place of Birth:			Date of Birth:
Iousehold Members (i	nclude household help):		
Name		Age	Relation to Membe
Present Water Source u	sed by Household (Please	Check):	
		Artesian Well	
D., 337.11		Spring	
Others		<u>.</u>	
Present Expenses for V	Vater per Month		<u> </u>
en grande en en en			
Distance of Water Sou	rce to the House		meters
hereby certify that the	e information above are tru	e and correct to the best	of my knowledge.
	gnature		

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 trainings 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
- 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 BOD 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 BOD or as often as required;
- Attend BOD meetings and BWSA training/activities conducted by the PWSU/MSLT
- Perform such other duties as may be assigned by the Board of Directors

(7) Duties and responsibilities of Caretaker

- Remind the members of the proper use of the facility
- Ensure that the water facility is in good operating condition
- Keep the record of the operation and maintenance of the water facility
- Report to the Board of Directors (BOD) any damaged or repair needs of the facility
- Perform minor repairs of the water facility
- Assist in the collection of water be contributions
- Attend meetings of the Board as may be required
- Attend skills training on operation and maintenance conducted by the PWSU/MSLT
- Perform such other duties as may be assigned by the Board of Directors

(8) Duties and responsibilities of Members

- Pay monthly water fee contribution;
- Attend meetings and training activities designed for members;
- Observe rules and regulations and policies approved by the BOD/Officers;
- Remind other water users to use the facility properly;
- Keep the premises of the water facility clean, sanitary and free from excess water which may cause contamination of the water source; and
- Adopt proper health and sanitation practices.

Procedures for BWSA Financial Operations

Bookkeeping records an organization's financial transactions involving the receipt and expenditure of money in an organization. The organization may be a small business or large corporation. It may be government or a non-government organization. Regardless of the size of the organization, it provides a standard method for recording and reporting financial transactions of all kinds. The information obtained from accurate and timely 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 received the reports and how frequently. It is recommended that certain records be maintained and certain

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

(3) General Accounting Plan (GAP)

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

2) Document for Non-Cash Transactions

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

- a) The Billing Form (See Figure 4) is used to notify water consumers of the fees owed to the BWSA covering a certain billing period. Billing forms may be made monthly or quarterly as the Association decides. Billing forms must specify:
 - · List of services rendered
 - The name and address of the person being billed
 - Period covered by this bill, beginning and ending dates
 - The total amount of money owed
 - Date of billing

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

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

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

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

(5) Book of Accounts

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

1) Cash Record Book

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

2) Receivable Book

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

3) Payable Book

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

(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.

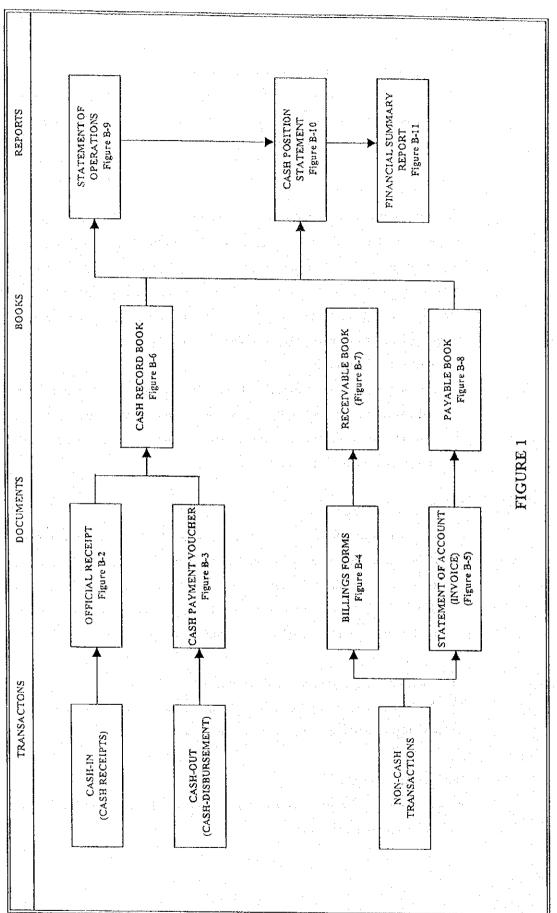
3) Financial Summary Report (Annual Report)

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.

BOOKS CASH RECORD BOOK GENERAL ACCOUNTING PLAN (GAP) Figure B-6 FOR BWSA TRANSACTIONS DOCUMENTS CASH PAYMENT VOUCHER OFFICIAL RECEIPT Figure B-2 Figure B-3 TRANSACTONS CASH-IN (CASH RECEIPTS)



OFFICIAL RECEIPT BWSA	<u>:-</u>	OR. NO	
Received from			
the sum of		(P)
in payment of			· · ·
Billing Form #	(For payme	ent of water fees only).	
			/Collector keeper)

Complete Official Receipt in Triplicate

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

CASH PAYMENT COUCHER			CPV No. Date:	
aid to :				
Address :				
n the sum of:				
	PARTICULARS	<u> </u>	AMOUNT	
Approved By:			ved from	
			yment for the above described.	
		and the second	ved By Received	: · · · ·

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

		nam	ne of BWSA		
_					
		Barangay	, Municipal	ity	
		P	rovince		
		BILL	ING FOM		
			for		
•					
		WATER C	CONSUMP	NOI	
ame of Mer	nber	·			
ddress:					
duress.					
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FROMONTH	OM		ТО		AMOUNT
FRO MONTH		RIOD COVER		No	AMOUNT
	OM		ТО		AMOUNT
	OM		ТО		AMOUNT
	OM		ТО		AMOUNT
MONTH	DM DAY		TO DAY	YEAR	
MONTH	DM DAY		TO DAY		
Pate of Billin	DMY DAY	MONTH	TO DAY Please pa	YEAR yEAR y On or Before	
MONTH Date of Billing	DMY DAY	MONTH	TO DAY Please pa	YEAR	
MONTH Date of Billing	DMY DAY	MONTH	TO DAY Please pa	YEAR yEAR y On or Before	
MONTH Date of Billing	DMY DAY	MONTH	TO DAY Please pa	YEAR y On or Before date shown abo	ove,
MONTH Date of Billing	DMY DAY	MONTH	TO DAY Please pa	YEAR y On or Before date shown abo	

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

			Date:	
			Invoice #	
•		INVOICE		
	· .			
		en e		
Sold to:				

ITEM	NO.	UNIT PRICE	PRICE
TOTAL			P

Received By:		
(Print Name be	elow Signature)	

BWSA	
------	--

CASH RECORD BOOK COLLECTION/DISBURSEMENT

Month:	 Year:	

DATE	PARTICULARS	CREDIT (Money Received)	DEBIT (Money Disbursed)	DAILY BALANCE
			٠.	

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

Name of BWSA	
Barangay, Municipality	
Province	

RECEIVABLE BOOK

DATE	BILLING FORM NO.	HOUSEHOLD HEAD (Family Name)	AMOUNT DUE	REMARKS
	- The state of the		•	
] .			: •	
			. :	
1				
				20, 4
}				

This form records all accounts due to the Association

BWSA _	
JAPAN MARKA	Barangay, Municipality
	Province

PAYABLE BOOK

DATE	INVOICE NO. AND DATE	CREDITOR	EXPLANATION	AMOUNT DUE	VOUCHER NO. DATE PAI
		· · · · · · · · · · · · · · · · · · ·			

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

		Name of BWSA	k	
		Barangay, Municipa	ality	
		Province		
	STA	TEMENT OF OPER	RATIONS	
	For th	e Month	.>	
Revenues:				
roronaco.	Water Fees		•	P
	Others (Specify)			
	Total Revenues			₽
				F
Operating Expe	enses			
a paraming Expe	Salaries			p
4	Supplies			
	Repair and Maintenar Others (Specify)	nce	-	
	Total Operating Expe	nses		₽
Net Income/Lo	SS			p
Prepared By:				Data Barre II
		·		Date Prepared:
~··· <u>····</u>				
•	•			
Certified true a	nd correct:		••.	Date Certified:
			A STATE OF	
BWSA	Treasurer			
Note: Print Na	me below signature			
At the end of ear	ach month, the bookke	eper prepares the Stat	ement of Operat	ions

9 - 38

		Name c	of BWSA	NA			
	· .	Barangay,	Municipal	ity	-		
	United State Control of the Control	Pro	vince				
		SH POSITIO					
Revenues:	Water Fees Contribution				<u></u> P		
:	Others (Specify) Total Revenues	<u></u>			- D		
	Total Revenues						
Less: Operat	ing Expenses: Salaries Supplies Repair and Maintena	ince			1		
	Others (Specify) Total Operating Exp	enses			₽		
	e, During the Period Balance, Beginning e, Ending				1		
Prepared By:					Date	e 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.

			Name of BV	VSA			•		
	Market Park	Ва	arangay, Mun	icipality					
			Province	 C		·			
			·						
	FI		IAL SUMMA Year End		POR	lT.			
-									
•	Financial Results						•		
	1. Total Revenues					<u>4</u>	·		
	2. Total Expenditures					<u>p</u>			
	3. Total Cash on Hand					p			
	4. Total Cash in Bank					₽			
	5. Total Accounts Recei	vable				₽			
	6. Total Accounts Payab	ole				₽		· · · · · · · · · · · · · · · · · · ·	
I.	Findings/Recommendatio	ns:			٠.			٠.	
	·							1.1	e e facilità
				•					
	Prepared By:		•			Da	ate Prepared:		
	BWSA Bookkeeper	τ .	-						

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.

		· · · · · · · · · · · · · · · · · · ·	Form
	PROPO	SED LEVE	LIPROJECT DATA
	Notice : This form shall	l be accompl	lished upon instruction on PST/PWSD
LOCATION	1.1 Barangay/Sitio		1.3 Province
LOCA	1.2 Municipality		1.4 Region
TA	2.1 Total Community/Barangay Population		2.3 Proposed Population to be Served
DA			
POP. DATA	2.2 Total Number of Households		2.4 Proposed Number of Households to be Served
INFORMATION ON THE WELL SITE	3.1 Ownership: Public	Private	3.3 Location:
N THE V	3.2 Description :		
TION O			3.4 Donor (If Private Lot):
.NFORMA			
	4.1 Type of Point Source:	4.3 For well	is:
	Dcep Well	Casing d	diameterin. orm.
		Casing o	depth ft. orm.
(Ya	Shallow Well	Water le	evel Well fl. orm.
ecessary)		Well car	pacity/yieldgpm. orm.
	Spring	4.4 For Spri	ings: Capacity/yieldgpm. orlps.
cets			elevation above or below
te sh	Others (dug well pond)		Service Area ft. or m
para		Location	
(Use separate sheets if n	4.2 Ownership :	1	Inside of service area
9	Public		Outside of service area
(Use separate sheets if n		Approxi	imate distance from center
}	Private		of service areakm.
		Prepared by	
			Municipal Liason Staff Date

Table 9.4.2 Format for Level II Feasibility Study

		· · · · · · · · · · · · · · · · · · ·	Daranaan	Form
			Barangay	Municipality
	•			
	FEASIBILITY STUDY			
	(Level II)		Province	Region
:	Notice This form shall be accomplished upon instruction	on of the PST/PWSO.		
		PROJEC	T SUMMARY	
_	1. Present Population	2. Design Population		3. Number of Households
POPULATION DATA				
S I	·			
ATIC			•	
Ž.		1 7 .		6. Number of Faucets
Š.		٠.		o. Number of Faucets
			<u> </u>]
	4. Type of Source	5. Type of System		
	Spring	Gravity	Pumped	
AT/	Well	1		0 D
7 D		7. Pump Horsepower		8. Pumping Time
Y Z	Surface Water	H	I P	llours per Day
Z.			· · · · · · · · · · · · · · · · · · ·	
TECHNICAL DATA	9. Total Average Daily Demand	10. Storage Tank Cap	acity	11. Pump Discharge Capacity
	Liters	1	iters	LPS
	12. Total System Cost	13. Maximum Loan A	mount	14. Interest Rate
		į.	And the second second	14. Interest Rate
	P	<u> </u>		
			<u> </u>	
< '	15. Local Equity	16. Funding Cost per	Household	17. Repayment Period (months)
[2	P	p		
7				
FINANCIAL DATA	18. Type of Local Equity			
NA NA	Cash	Labor	Material	s Others,
<u> </u>		Caboi	Viateliai	S Others,
	10.7		T	
	19. Total Monthly Expense		20. Monthly Fee Per l	Household
	Р		. P	
		:		
	I Survey Form	5 Design of Pipe	Lines DAF	Fittings Schedule 12 Financial Analysis
S	2 Map of the Project Area	6 Design of Rese		G.I. Pipes) I3 Availability of Local
ANNEXES	3 Design Criteria and	and the second of the second		· ·
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		and Pump	- <u> </u>	Fittings Schedule Equity
	Basic Design Data	7 Detailed Desig		Bill of Materials
	4 Schematic Diagram of	8 Pipes Schedul	e 🗀 11 C	Cost Summary
	the System			
Pr	repared by:		Endorsed by :	
	· · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	Municipal Liason Staff	Date	PST/PWSO	Coordinator Date
<u> </u>				·

SURVEY FORM

Rural Water Supply Project

A. LOCATI	ION		
	Barangay :	Province	•
	Municipality:	Region Number	
			-
B. GENERA	AL INFORMATION	e. ·	
	1. Population		•
	2. Number of households		
•	3. Distance from poblacion	punny	kilometers
4	4. Availability of electricity	Yes	No _
	5. Distance form 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. TECHN	ICAL INFORMATION		
	1. Are there reliable sources of potable water?	•	
	☐ Yes	No	
	a) For Wells		
	Well capacity :	lps	
• .	Casing diameter :		
	Casing depth :	<u> </u>	
	Water level from top of well :		<u>.</u>
	Location:	Within service a	area
		Outside	M. from service area
	b) For Springs	en Kanada ayan sa	
	Average dry season flow		☐ GPM ☐ LPS
	Relative elevation of spring		
	a .	ft.	m. above service area
	b.	ft.	m. below service area
e de la companya de l	Location :	Within service an	
		Outside	m. from service area

Υ	T	i
For pumps	: Type: Power:	HP
For pipes	: Galvanized Iron Others, specify	☐ PVC
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 are	ea)
		for the control of th
Relative ele	evation with respect to service area	ft m.
	ther sites where water tanks may be erected?	☐ Yes ☐ No
Are there o	ther sites where water tanks may be erected?	☐ Yes ☐ No
Are there of Location :	ther sites where water tanks may be erected? (please indicate in the map of the projection)	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the base	ther sites where water tanks may be erected? (please indicate in the map of the project to service area	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the base	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel?	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the base	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many? Estimated Number	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the base	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many?	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the base	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many?	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the ball of yes, how	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many?	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the ball of yes, how	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many?	☐ Yes ☐ No ct area) ☐ ft ☐ m.
Are there of Location: Relative electric Does the ball of yes, how	ther sites where water tanks may be erected? (please indicate in the map of the project evation with respect to service area arrio have skilled personnel? w many?	☐ Yes ☐ No ct area)

D. FINANCIAL INFORMATION

	Cash :	p				
	Labor :		man-days			
	Materials:	Sand	:		_ cu. m.	
		Gravel	:		cu. m.	
		Cement	:		bags	
		Others, spe	cify:			
2.	Have the people been informed of the monthly fees required to repay			Level II syste	ms, particularly	
	☐ Ye	es ·	□ No			
3.	How much are the people willing t	o pay per househ	old per month a	s a water fee?		
	Below P 6.00	P 10.00 -	15.00	Others _	1	
	₽ 6.00 - 10.00	15.00 -	•	Specify:	•	
			20.00	Specify.		٠
4.	Average income per household	ą.	per month			
	and the modern of the modern o	·	per month			
INST	ITUTIONAL INFORMATION Is there an existing association wh ☐ Yes	o is ready, willing	g and able to ma	nage the syste	m	
	If yes, please specify.					
2.		association to ope	erate and manag	e a		
2.	Are people willing to join a water water supply system?	association to ope	erate and manag	e a	□ No	
2.	Are people willing to join a water			e a	□ No	
	Are people willing to join a water water supply system?			e a		
	Are people willing to join a water water supply system?	to be members?	☐ Yes		households.	
3	Are people willing to join a water water supply system? How many households are willing Name at least three (3) leaders of the if required.	to be members?	Yes Ho can act as off		households.	
3	Are people willing to join a water water supply system? How many households are willing Name at least three (3) leaders of the system of the system.	to be members?	☐ Yes		households.	
3	Are people willing to join a water water supply system? How many households are willing Name at least three (3) leaders of the if required.	to be members?	Yes Ho can act as off		households.	
3	Are people willing to join a water water supply system? How many households are willing Name at least three (3) leaders of the if required.	to be members?	Yes Ho can act as off		households.	
3	Are people willing to join a water water supply system? How many households are willing Name at least three (3) leaders of the if required.	to be members?	Yes Ho can act as off		households.	

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

DESIGN CRITERIA AND BASIC DESIGN DATA Rural Water Supply Project

I.	Design (Criteria	
	1. 2.	Design Period Population	: 5 years
	Ε.	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	Donien Bernstein V. B. C. 11. C.
		Maximum Day Demand	: Design Population X Per Capita Consumption : 1.3 X Average Day Demand
		Maximum Hour Demand	: 2.5 X Average Day Demand
			Transpose of 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
11	D (10		
II.	Basic De	esign Data	
	1.	Present Population	
	1.	resent ropulation	<u> </u>
	2.	Design Population (Present Population X 1.1	16)
	3.		X
-			mption) (Design Pop.)
	4.	Maximum Day Demand: 1.3 X	<u> </u>
		(Average I	Day Demand)

SCHEMATIC DIAGRAM OF THE SYSTEM Rural Water Supply Project

DESIGN OF PIPE LINES

_ Rural Water Supply Project

SECTION (1)	NOI From (2)	DES To (3)	SECTION LENGTH(M) (4)	HOUSEHOLD SERVED (5)	PEAKFLOW (LPS) (6)	PIPE DIA (MM) (7)	HEAD LOSS PER 100M (8)	ACTUAL HEADLOSS (9)	REMARK (10)
									1
· · · · ·							·	-	
							 		
								· · · · · · · · · · · · · · · · · · ·	
									1
								·	
4.									
									:
:		·						1	
:				·					
			<u> </u>			· · · · · · · · · · · · · · · · · · ·			
<u>i</u>	 		<u> </u>						
									<u> </u>
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			<u> </u>	1					
	<u> </u>								
<u>i</u>	-								
	 						:		
	<u> </u>								
· ·	 	1			:				
	1	<u> </u>							

DESIGN OF RESERVOIR AND PUMP

__ Rural Water Supply Project

A	DESIGN		
	1. De	termine Car	pacity of Reservoir, (C ,)
		_	1/4 x Average Day Demand
:			1/4 x D, (LPD)
		C r =	liters
	2. De	etermine Mi	nimum Water Elevation, (WL _{in})
į.		WL m	= total head loss + 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	<u> </u>
			Note: The bottom of the storage tank should be higher than
1			this elevation.
В.	DESIGN OF	PUMP	
	1 D	atarmina Du	mp Capacity, Q _p (LPS)
	1. 10		Max. Day Demand (LPD)/ Operating Time (Sec.)
		•	
		$Q_p =$	
		0 -	T = Operating Time in Seconds
		$Q_p =$	LPS
	2 C	alculate Tot	al Dynamic Head, TDH (Meters)
	2. 0		Depth of Pumping Level + by Maximum Reservoir Elevation + friction loss
			Depth of Lamping Devel - by Maraham Reservoir Dievation - Metion 1955
		TDH =	m
	3. C	alculate Bra	ke Horsepower Requirement :
			Q _p x TDH
		P	$\frac{\sqrt{p \times 10^{12}}}{75 \times \text{Efficiency}}$
		· .	srake Horsepower = Hp
	s English of the S		There:
			and the contract of the contra
			fficiency for Centrifugal Pump, 30-60 %
	:		fficiency for Submersible Pump, 50-60 %
		Е	fficiency for Jetmatic Pump, 20-30 %

DETAILED DESIGN PLAN

Rural Water Supply Project

Annex 8 PIPES SCHEDULE

___ Rural Water Supply Project

PIPE (1)	DIAMETER mm	SECTION (2)	LENGTH m	REQU	JIRED PIPES (3)	ACTUAL NO. OF PIPES (4)	ADDITIONAL PIPES (5)
				-			(5)
	·						
			:				
·				:	1		
				<u>:</u> :			
					···		
				<u> </u>			
					_		
					<u> </u>		
			: 		· · · · · · · · · · · · · · · · · · ·		ļ
	<u> </u>		*				
<u> </u>		1					
			(<u></u>				
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			* .				

Annex 9A
FITTINGS SCHEDULE (G.I. PIPES)
Rural Water Supply Project

I		 	 ,		-		 	 			
VALVES											
n iddin											
FAIICET						- 1					
COUPLING	-										-
ELBOW ELBOW		*									
BUSHING STD											
TEE	-										
OTO 35t	715 771										
9 L Z	Qty.						·				
ING UNION PATENTE	Size								-		
COUPLING	Qty.		·			·					
SECT	LENGTH			-							
NODES											

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

1) F	Ŧ	T	7	T	Υ	γ	7	7	·		-	,	 		
	OTHERS																
	ELBOW												-				
G. I. FITTINGS	FAUCET																
	VALVES									·							
SOCKET	REDUCER																
SOCKET	ADAPTOR																
STD	/ TEE REDUCER																
	ELBOW REDUCER															:	
l:	Size			-													
SOCKET	Qīy.																
\	SECT LENGTH											-					
NODES																	

Annex 10 BILL OF MATERIALS

__Rural Water Supply Project

QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
. 5				
	1			
:				
<u> </u>				
	<u> </u>			

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

Annex 12 FINANCIAL ANALYSIS

Rural Water Supply Project

A. RELEVANT DATA			
1. Pumping Hours	•	h	
2. Pump Horsepower			
3. Cost/KWH	: <u>P</u>	nr	
4. Pump Cost	. P		
5. Amount of Loan	. D	the state of the s	
6. Loan Terms	~····	% (interest p	
or zour romis		years (Repayı	
7. Number of Households		years (Repay)	mem renod)
B. COMPUTATION OF MONTHLY	ZEXPENSES (O	mit non-applicable ite	ms)
1. Operations			
a. Salaries		_ X	= P
b. Office Supplies c. Power		_ X	_ = P
d. Chemical		_ X	
e. Miscellaneous		_ X	_ = P
e. Miscenaneous	·	_ X	_ = P
2 Asset Desile	$(x,y) = (x^2 + y^2) + (x^2 + y^2)$		
2. Asset Replacement			
a. Pump			_ = P
h Binalinas	•	Life (mos.)	
b. Pipelines	· · · · · · · · · · · · · · · · · · ·	_ /	= P
c. Tank	•	Life (mos.)	
c. Talik			_ = P
d. Others		Life (mos.)	7
u. Others		T:C ()	_ = P
3. Amortization		Life (mos.)	
J. Amortization	(CRF)	X (Y ann Anst)	
4. Maintenance (2% of C	• ,	(Loan Amt.)	•
	apitai Equipt.cos		_ D
6. Total Monthly Expense		_/12	≂ P
o. Total Monthly Expense	~S		- F
C. COMPUTATION OF WATER F	GT:		
C. COM CIATION OF WATER F	. نلد		
Monthly Water Fee Per Househol	d :		
	/		= P
(Total Monthly	y Expenses)	(No. of HH)	

Annex 13 AVAILABILITY OF LOCAL EQUITY

	Item			Amount	
I. Cash	-			pp	
ll. Labor					
Type of Labor	No. of Workers	No. of Days	Rate Per Day		
		; 		<u>.</u>	
					-
III. Materials			•		
Type of Materials	Qua	ntity	Unit Cost		
		:		uting the state of	
				<u></u> -	
					 ·
TOTAL			og og karterakter. Kanada og kar		
					
I certify that the items the local share of the pro	listed above re ject cost.	present	Noted by :		
Association Pres	ident	Date	Municipa	l Sector Liason	Date

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.

(c) As Planner

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

(f) As Catalyst

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

2. Personal characteristics of a CD/CO Worker

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

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

(a) In Method of Work

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

(b) In Lifestyle

- > Humble, simple and immerse oneself in the life of the community;
- > Free of self-interest, which makes commitment unclear and dubious, and expect to reward;
- > Able to identify with the people, see themselves as different, and be aware of the limitations of such;
- > Open to be transformed by identification with, and involvement in the community;
- > Able to develop the internal strength to accept frustrations and loneliness at times.

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

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

5. Desired Characteristics of a CD/CO Worker

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

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

Typical CD Work

Community Organizing Handbook 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 Barangay Captain

Facilitator
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 function's 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 that 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

Note: If system is Level II, spring source, dispersed tapstands and dispersed household clusters, technical information is limited to the number of tapstands that can be provided and the approximate location of tapstands relative to the cluster.

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 componentsTo 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

To undertake information campaign on the importance

of grouping and houserules formulation

To select tapstand leader

Expected Results : Final listing of membership per tapstand

Formulated tapstand houserules

Tapstand leader selected

Suggested Strategy

Undertake meeting per tapstand

Facilitator

CO worker

CO-facilitator

Chairman, Committee on Education and Recruitment

DISCUSSION POINTS IN FORMULATING TAPSTAND HOUSERULES

a. Getting water:

How will water be fetched?When will water be fetched?

Who can fetch water?

b. Monitoring

List down who fetches and

how much volume of water was taken

c. Water tariff due the specific tapstand

d. Sanitation around the tapstand and around the cluster

e. Beautification and physical development in the tapstand site

f. Financial management regarding water tariffs

12. PRESENTATION OF FINAL TECHNICAL DESIGN

Objective : To present and approve the final technical design

Expected Results : Finalized counterpart agreement

Construction scheduling developed

Suggested Strategy : Meeting among tapstand leaders, core group and

barangay council

13. TRAINING ON HYGIENE, SANITATION AND HEALTH CARE

Objective : Conduct of training on health and hygiene Expected Results : Awareness on community health aspects

Suggested Strategy : Community meeting, or

Meeting by tapstand grouping

Organizer : CO Worker, community and rural sanitary inspector

Training Management: LGU

Audience : Core Group, Barangay Officials, Barangay Health Workers,

Rural Sanitary Inspectors, and Barangay Nutrition Scholars

14. SOURCE FOR EXCRETA DISPOSAL MATERIALS AND/OR FACILITIES

Objective : To make available to the community facilities for excreta

disposal (if conditions and culture warrant)

Expected Results : Materials/facilities for excreta disposal constructed individually

by members of the community in their households

Suggested Strategy : Core group members together with CO worker make

representations with LGUs to source materials or facilities

Facilitator

Core group members

CO-facilitator

CO worker

15. ORGANIZATIONAL MANAGEMENT TRAINING

Organizer

CO and the community

Training Management

LGU

Audience

tapstand leaders, core group and barangay officials

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-facilitator CO worker

Co-racilitate
Audience

Technical Team
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 Plane 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

Expected Results
Suggested Strategy

Constitution and by-laws ready for ratification 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

Trainces

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 he RWSA/BWSA and is functioning as intended and has it 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 amend 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