

Table 8.6.4(1) Project Cost for Drinking Water Quality Improvement Plan in Palestina (1/3)

Q1.00=Yen15.5

Contenido	Especificacion	Cantidad	Unidad de Medida	Precio Unitario (Q.)	Costo (Q.)	Observacion
Instalacion de Equipo Dosificador		3	unidad	16,546.51	49,639.52	
Construccion de Tanque de Distribucion		1	unidad	96,928.22	96,928.22	
TOTAL					146,567.74	

* No incluye obra civil como obra de excavacion, relleno, compactacion.

Table 8.6.4(1) Project Cost for Drinking Water Quality Improvement Plan in Palestina (2/3)

Q1.00=Yen15.5

Contenido	Especificacion	Cantidad	Unidad de Medida	Precio Unitario (Q.)	Costo (Q.)	Observacion
Cimiento	grava 3/4"	1.35	m3	132.50	178.88	
Concreto de base	f'c = 2,000psi	0.45	m3	1,319.71	593.87	
Concreto	f'c = 3,000psi	20.98	m3	1,384.84	29,053.94	
Hierro corrugado	Grado 40.0ksi	66.88	Hlb	507.00	33,908.16	
Parada de agua	150mmPVC	11.41	ml	117.00	1,334.97	
Escarela	Acero inoxidable 5/8"	10	unidad	522.60	5,226.00	
Formaletas		58	m2	273.00	15,834.00	
Tapa de manhole		4	unidad	1,560.00	6,240.00	
Obra de soporte		10	m3	78.00	780.00	
Saffording		19	m2	156.00	2,964.00	
Sleeves		1	Global	585.00	585.00	
Impermeable		20	m2	11.47	229.40	
TOTAL					96,928.22	

* No incluye obra civil como obra de excavacion, relleno, compactacion.

Table 8.6.4(1) Project Cost for Drinking Water Quality Improvement Plan in Palestina (3/3)

Q1.00=Yen15.5

Contenido	Especificacion	Cantidad	Unidad de Medida	Precio Unitario (Q.)	Costo (Q.)	Observacion
DOSIFICADOR	DSA 310 RE-IE	1	Unidad	4,886.60	4,886.60	* Tubo de aspiracion transparente, 1.20m de largo equipado con lastre y crepina.
VALVULA ESFERA	PLASTICA 1"	2	Unidad	41.08	82.16	
MANOMETRO	PRESION 0-100 PSI	1	Unidad	37.44	37.44	
RED.BUSHING	PVC 6" x 3"	2	Unidad	186.61	373.22	* La mano de obra no incluye trabajos de obra civil.
RED.BUSHING	PVC 3" x 1"	2	Unidad	22.10	44.20	
UNION UNIVERSAL	PVC 1"	4	Unidad	28.62	114.48	
FILTRO DE 1"	(ANILLOS) MARCA AZUD	1	Unidad	199.00	199.00	
TEE	PVC 6"	2	Unidad	588.82	1,177.64	
VALVULA MARIPOSA	HF 6" WD-3010-3	1	Unidad	1,470.56	1,470.56	
BRIDA	6" PVC	2	Unidad	324.89	649.78	
TORNILLOS 5/8 x 6" COMP		16	Unidad	11.47	183.52	
MANO DE OBRA POR INSTALACION		1	Unidad	5,000.00	5,000.00	9,218.60
ARTICULOS VARIOS Y MISCELANEOS		1	Unidad	1,100.00	1,100.00	
CASETA DE TANQUE DE DEPOSITO	0.8x0.8xH1.2m	1	Unidad			
BLOQUE DE CONCRETO	Tipo liviano de 14x19x39cms	0.096	Millar	2,546.67	244.48	
CEMENTO	Gris nacional	1	42.5kg	30.10	30.10	
ARENA	de rio	0.8	m3	74.62	59.70	
LAMINA GALVANIZADA LISA	3 x8'	1	Unidad	108.63	108.63	
PUERTA DE PLYWOOD	pino de 0.7x1.2m	1	Unidad	400.00	400.00	
TANQUE 55 GLS DE HIPOCLORITO	10%	1	55GLS	385.00	385.00	
TOTAL					16,546.51	

Table 8.6.5(1) Role and Responsibility of Each Actor for Community Health Service Plan

Municipal Pharmacy	<ul style="list-style-type: none"> (1) Regularly (every three month) purchasing PROAM drugs and selling them to MPU with 105% of original purchasing price. (2) Selling PROAM drugs at municipal pharmacy with 133% of original price.
Municipality	<ul style="list-style-type: none"> (1) Organizing health committees and selecting competent health promoters (2) Preparing all the necessary document to apply to PROAM (3) Monthly supervision of accounting and stock control done by health committee
Health Committee	<ul style="list-style-type: none"> (1) Monthly administration of drug sales benefit, stock control, accounting for MPU and recording as well as allocation of incentive to health promoter. (2) Safely keep the certain part of benefit for future health activities in the communities. The committee has the right to decide the purpose of use. (3) Support for health education session given by health promoters (4) Co-ordination among health promoter, municipality and municipal pharmacy
Health Promoter	<ul style="list-style-type: none"> (1) Selling essential drug as well as giving first aid treatment to the village people at their own house unit (2) calculate daily benefit, kinds of drugs sold, first aid attended, stock and record them (3) Implementing monthly health education session in co-operation with health committee (4) Purchasing drugs from Municipal pharmacy with the rate of 105% and selling at 133% of the original prices. (5) Referring the patients to the health center if the symptom does not disappears or in case of very severe symptoms (6) Keep contact with health center for technical assistance
Health Center	<ul style="list-style-type: none"> (1) Technical support to Health promoter, health committee and municipal pharmacy (2) retraining for health promoters concerning drug selling and health education topics when needed (3) Support for implementation of monthly health education (4) Providing the patient with prescription
Users	<ul style="list-style-type: none"> (1) Appropriate use of the drugs according to the guidance given by health promoter (2) Active participation to monthly health education (3) Avoid giving the drugs bought to the others (4) Avoid self-treatment and go to the appropriate health facilities when the symptoms do not disappear or very severe symptoms
JICA Study Team	<ul style="list-style-type: none"> (1) Financing and Purchasing initial equipment and inputs together with municipality including building of MPU (2) Monitoring and Evaluation

Table 8.6.5(2) Cost Estimation for Municipality Community Health Service Plan

Items	Unit price (Q)	Amount	Total (Q)	Particular
1. Training				
a. Promoters				
(1) Training by Health Center				
Salary for trainer	5000	1	5,000	Training for health education and first aid matters
Material cost	250	4	1,000	
Transportation/lunch for trainees	250	4	1,000	
(2) Training by Professional pharmacist				
Transportation/lunch for trainees	50	40	2,000	Training for Pharmaceutical issues
Material cost	500	4	2,000	
Salary for trainers	900	10	9,000	
Accommodation fee for trainers	300	10	3,000	
Gasolin/transportation	75	10	750	
Transportation/lunch for promoters	50	4	200	On the job training at municipal pharmacy for 2 days
Transportation/lunch for auxiliary pharmacist	50	2	100	Auxiliary pharmacist attends each MPU for 1 day
b. Auxiliary pharmacist				
Course cost including learning materials	300	2	600	
Studying materials	500	2	1,000	
Inscription and final examination	100	2	200	
Transportation and daily allocation for trainee	50	80	4,000	
c. Health committee members				
transportation/lunch for trainees	50	10	500	Training for administration of MPU
Materials	50	10	500	
subtotal for training			30,850	
2. Initial Drug input	1911	12	22,932	for 2MPUs during 6 months
subtotal for drug input			22,932	
3. Equipment				
a. Minimal Pharmacy Unit building	13966.9	2	27,934	2 buildings
b. first aid essential equipment				For 2 MPUs
Mertiolate bottle(for 3 months)	27.9	2	56	
Cotton(for 3 months)	22.0	6	132	
1 Thermometer	4.50	2	9	
Antibacterial soap × 2	3.25	6	20	
1 Soap box	2.50	2	5	
1 Stainless steel tray	225.00	2	450	
1 Surgeon scissors	24.00	2	48	
1 Pinze	32.00	2	64	
Fabric bandage (for 3months)	7.00	10	70	
1 towel	15.00	2	30	
c. Health Education Materials	150	24	3,600	2 MPU and Health Centre
d. Administration equipment	100	1	100	2 pens and 2 notebooks for committee
10notebooks and 8 pens				
e. Equipment for MPU				For 2 MPUs
shelf	900	2	1,800	
chair	200	4	800	
table	239	2	478	
money box	115	4	460	
f. Transportation fee for initial drug and equipment	2000	1	2,000	
subtotal for equipment			38,055	
TOTAL			91,837	

Table 8.6.5(3) Working Schedule for Municipality Health Service Plan

Items	2001					2002										
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Training for auxiliary pharmacists	■			■												
Training for health promoters				■												
Short training for health committee				■												
Building of MHU		■														
Legal registration for PROAM				■												
Purchasing/transportation of drugs/equipment				■												
MPU starts functioning																
Monthly health education					●	●	●	●	●	●	●	●	●	●	●	●
Monthly accounting and stock control by health committee																
Monthly follow-up and supervision by Municipality																
Technical assistance from HC																
Monitoring and evaluation																●

evaluation

Table 8.6.5(4) Training Course content for community health promoters and auxiliary pharmacist

<p>1. Training Course Content for Health Promoters by Health Center(5 days)</p> <ul style="list-style-type: none">(1) Acute respiratory infections(2) Diarrhea and cholera(3) First Aid(4) Vaccination(5) Reproductive health <p>*The training components includes the drug management according to the protocol and rules of the Ministry of Health.</p> <p>*The trainer will be Rural Health Technician Coordinator in “Area de Salud de Quetzaltenango”, Mr. Hector Larios.</p>
<p>2. Training Course Content for Health Promoters by private Professional pharmacist(10days)</p> <ul style="list-style-type: none">(1) General introduction(2) Methodology(3) Pharmaceutical forms(4) Administration method(5) Prescription(6) Classification of drugs group 1(7) Classification de drugs group 2(8) Training for the administration of Rural Boteqine(First Aid Box)
<p>3. Training Course Content for Auxiliary Pharmacist by CEGIMED(3 to 4 months)</p> <ul style="list-style-type: none">(1) General Introduction(2) Pharmaceutical Legislation(3) Methodology(4) Action and Effect of drugs(5) Administrative method(6) Classification of drugs 1(7) Classification of drugs 2(8) Medicine Plants(9) Use and risk of drugs(10) Administration

Table 8.6.5(5) Requirement for purchasing drugs from PROAM (1/2)

**CRITERIA FOR THE SELECTION OF GEOGRAPHICAL AREAS FOR THE LOCATION OF
“Venta Social” and “Botequin”**

FOR Venta Social

1. It must be located in hygienic areas away from places considered as a contamination risk, such as rubbish dumps, canteens, flea markets, etc.
2. It must offer coverage to at least 10,000 people, including those who attend to rural first aid cupboards, in order to assure its self-sustainability.
3. It must search an area which is not attended by any other Social Sales of Drugs.
4. The physical facilities must have a premise dedicated specifically to the sales, with water and bathroom services. It must also have enough lighting and with the right equipment for the appropriate storage and conservation of the drugs.
5. Very distant health services or in difficult to access places to the population.
6. The person in charge must receive a salary.

FOR Botequine(First Aid Box, Minimal Pharmacy Unit)

1. It must be located in hygienic areas away from places considered as a contamination risk, such as rubbish dumps, canteens, flea markets, etc.
2. It must search a geographical area which is not attended by any other Rural First Aid Cupboards or Social Sales of Drugs, in order to improve its coverage.
3. The physical facilities must have a premise dedicated specifically to the sales, with water and bathroom services. It must also have enough lighting and with the right equipment for the appropriate storage and conservation of the drugs.
4. Very distant health services or in difficult to access places to the population.
5. The entrusted person must be a volunteer and will receive a minimum remuneration.

**CONDITIONS FOR PURCHASING DRUGS AND FOR THE FUNCTIONING OF VENTA
SOCIAL AND BOTEQUIN**

1. The payment for the drugs is in cash with a cheque de caja (document bought at a bank, which is not negotiable) bought by the NGO issued to: Bank of Guatemala.
2. No credits are granted.
3. The drugs must be picked up in PROAM's facilities (11th Ave. 11-57, Zone 7, La Verbena).
4. There are no returns, exchanges, expired or complains about drugs after signing of receipt.
5. It is prohibited to sell wholesale drugs in the Social Sales, they will only be sold for treatments.
6. No minimums or maximums are required for buying at PROAM.
7. All the Social Sales must send a monthly report of sales in units and values, within the first five days of each month.
8. Exhibit PROAM's authorized list of prices for the drugs sold. (It is prohibited to increase a percentage greater than the one authorized by PROAM).
9. Every Social Sale of Drugs NOT AUTHORIZED by PROAM will not be able to buy drugs at PROAM.
10. The Social Sales and Rural First Aid Cupboards that don't fulfill the laws and regulations from the Program of Accessibility to Drugs –PROAM-, will be canceled.
11. The order's request must be sent with one month anticipation when the social sale is new and with three working-days anticipation from the second order on.
12. PROAM will indicate the date when the order can be picked up.
13. The exact address of the Social Sale for which the drugs are being purchased must be indicated in the application.
14. Every NGO must send during January the estimated programming per year of consumption of each drug, which can be calculated monthly or quarterly, this must be done bearing in mind the number of Social Sales that are subscribed with PROAM.

Table 8.6.5(5) Requirement for purchasing drugs from PROAM (2/2)

REQUIREMENTS FOR THE OPENING OF A SOCIAL SALES OF DRUGS OR A MUNICIPAL PHARMACY

FROM PROAM:

- a. Request to subscribe, addressed to the General Manager from PROAM, indicating the functions and objectives of the Organization, signed and stamped by the NGO's Legal Representative.
- b. Fill out subscription form.
- c. Enclose **legalized** photocopy that certifies the NGO's legal status, granted by the Ministry of Governing (if the organization was established before August/98) and by the registry office from the municipality where they are constituted (if the organization was established after August/98).
- d. Report from the correspondent Health Area Headquarter.
- e. Enclose a sketch of the local and geographical location of the Social Sales.
- f. Enclose a photocopy of the Legal Representative's identification.
- g. **Legalized** photocopy of the Entitlement of the NGO's Legal Representative.
- h. Enclose a photocopy of the identification of the persons entrusted of purchasing (two maximum) and two photographs (2" x 2") of each one of them.
- i. Enclose a photocopy of the identification from the person in charge of the Social Sales of Drugs (who must be a properly registered Pharmacy Assistant).
- j. Enclose a photocopy of the entrusted person's health card.
- k. Photocopy of the Tax-payer Identification Number card (NIT), issued by the Ministry of Public Finances under the NGO's name.
- l. (*) Enclose a photocopy of the certificate of being registered as a Pharmacy Assistant and the diploma, for the person in charge of the Social Sales; whom will also be the Technical Director.
- m. (*) Enclose a photocopy of the Sanitary License of the Social Sales of Drugs, issued by the Department for Regulation and Control of Drugs and similar.

(*) The requirements in letters l) and m), will be asked for after the fulfillment of the requirements from the Department for Regulation and Control of Drugs and similar; which must be enclosed to the NGO's file which was sent to PROAM, for the signature of the correspondent agreement.

FROM THE DEPARTMENT OF REGULATION AND CONTROL OF DRUGS AND SIMILAR

- a. Record stating that the NGO has fulfilled PROAM's requirements and is qualified to request a Sanitary License for the Social Sales indicated (issued by PROAM).
- b. Request of a Sanitary License, addressed to the Manager of the Department for Regulation and Control of Drugs and similar, **indicating that its for a Social Sales of Drugs** and the authorized address by PROAM (a sanitary license must be requested for each Social Sale that the NGO wants to administrate).
- c. Other requirements that the Department for Regulation and Control of Drugs and similar establishes (ask for more information).

FROM THE MINISTRY OF PUBLIC FINANCES

- a. Registration to the Value-added Tax (IVA), as a non-lucrative entity.
- b. Authorization of the document which will be issued to the consumer (ask what type of document is needed in a non-lucrative entity).
- c. Authorization of books (whichever the ministry demands for non-lucrative entities).

**Table 8.6.5(6) Variety and amount of drugs for initial inputs in MPU in Palestina
Municipality Community Health Service Plan**

Name of drug	estimation by fis	municipo farmacy sales	suggestion by health center	Revision by Study Team	unit Price proam	inicial drug input
Acetaminofen 100mgs	8		35		2.84	62
acetaminofen 120 mgs/5ml	21	1.16	35	30	2.21	66
acetaminofen 500 mg tab.	125	49.08	166	130	0.07	9
acetaminofen 80 mg tabs	0		222	100	0.07	7
acido folico	83		388	300	0.09	27
albendazol 200 mgs tab	83	7.17	33		0.11	5
albendazol 200mgs/5ml suspencion	21				1.35	28
alcohol isopropilico	1		8		2.5	11
alum. Y mag. Hidroxido/dimetilpolisiloxar	83		33		6.16	358
amoxicilina 250 mgs/5 ml fco	21	5.33	27		5.52	98
amoxicilina 500 mgs cap	83	41.67	88		0.36	26
bencilo benzoato 25%	21		5		3.12	40
bromexina 4mg/ml jarabe	8	1.25			1.97	9
cloranfenicol 0.5% sol. Oft gotero	0		11		2.15	24
cloranfenicol 1% sol. Oft tubo	8		11		2.76	27
clorfeninamina maleato 2mg/5ml	0	3.67	13		2.33	19
clorferinamina maleato 4 mg	0	71.25	37		0.06	3
clotrimazol 2% crema tubo	21	0.25	13		8.5	97
dimenhidranato	21	0.75	11		0.24	3
ferroso sulfato frasco	0		36	50	2.98	149
guayacolato de glicerilo	13	7.42	44		1.66	35
hidroxido de magnesio 360 ml	8				6.15	51
ibuprofen 400 mgs	83	97.25	77		0.08	7
ketoconazol 2% crema			11		5.15	57
ketoconazol 200 mgs tab			33		0.33	11
mebendazol 100 mgs/5ml	8		13		0.98	10
metrodinazol 125mg/5ml	21	9	15		1.94	29
metronidazol 500 mgs tabs	83	42.95			0.1	6
peroxido hidrogeno 3%	0		4		0.73	3
ranitidina 150mgs	0		44		0.17	7
salbutamol 2mg/5ml	21	1.5	25		1.12	18
sro	83		111		0.85	83
secnidazol 500 mgs tabs	83				0.74	61
sulfacetamida 10% oft	21		11		2.4	38
tinidazol	0		66		0.28	18
trimetropin sulfa 160/800 tabs	83	107.49	102		0.2	20
trimetropin sulfa 40/200 fco	42	7.33	36		2.16	61
vitaminas multiples capsula	208	45.33	33		0.13	12
vitaminas multiples gotero	83	3	166	100	3.15	315

Total per month 1911

is drugs from Venta Social drug list
The rest is from Botequine drug list

Table 8.6.6(1) Training Details for Migrants (1/2)

Level A

Trainee: 20

- 1) 10 Health Centre Personnel esp. Auxiliary Nurses in Centro de Salud and three Puesto de Salud.
- 2) 10 School Teachers

Trainer: NGO

Place: Municipality Hall in Palestina de Los Altos in Quetzaltenango or Health Centre

Purpose: Train health centre personnel in order to allow them to obtain additional information and skills to support migrants to the south.

Theme of training	Goal: Trainees can teach the following subjects after the training to villagers and school children	Supply of teaching materials	Unit of training
Safe Water “Water Filter”	1 What is the water related disease 2 How to obtain safe water 3 How to make water filter 4 How to manage good water filter	Water tank with a tap and lid	Lecture 2h Practice 3h
Pesticides Management	1 What is Plaguicidas 2 Effects of Plaguicidas 3 Danger of Plaguicidas 4 How to use Plaguicidas 5 When you get sick	Thin body suits Masks Gloves	Lecture 2h Practice 3h
Malaria /Dengue control	1 What is Malaria and Dengue? 2 What is the symptom? 3 How to prevent Malaria/Dengue 4 How to manage when infected	Seeds of Plants	Lecture 2h Practice 3h
Toilets management	1 Making simple toilets 2 Management of toilets	Portable toilet	Lecture 2h Practice 3h

Note: For the trainees from health sector, the participation in Trainings level B is obliged as a part of the training A.

Table 8.6.6 (1) Training Details for Migrants (2/2)

Level B

Trainee: 20 Community Health Promoters (They are given standard 5 days training to be a health promoters before this training by NGO with the permission of HC)
5 CHP from each caserios receive training of one theme out of 4 listed below.

Trainer: NGO and Auxiliary Nurse as a part of the training of level A

Place: Municipality of Palestina de Los Altos or Health Centre, Quetzaltenango

Period : January-March period , 5 days for standard training plus two days additional training per community health promoters

Level C

Trainee: 200 Migrants in five caserios

Trainer: NGO, Auxiliary Nurses, and Community Health Promoters

Period : January- March

Method: Training is given to villagers in their own village.

The numbers are estimated as 200 in five caserios.

The training are 2-3 hours per theme.

Trainees can change according to the theme.

The training includes lectures and practices.

Theme of training	Goals: Level B: Trainee can teach the subject Level C: Trainee can use new action introduced in the training	Supply of teaching materials to the trainees	Unit of training
Diarrhoea	1 What is Diarrhoea 2 How to prevent Diarrhoea 3 How to treat Diarrhoea patients		Lecture 2h Practice 3h
Safe Water "Water Filter"	1 What is the water related disease 2 How to obtain safe water 3 How to make water filter 4 How to manage good water filter	Water tank with a tap and a lid	Lecture 2h Practice 3h
Pesticides Management	1 What is Plaguicidas 2 Effects of Plaguicidas 3 Danger of Plaguicidas 4 How to use Plaguicidas 5 When you get sick	Thin body suits Mask Gloves	Lecture 2h Practice 3h
Malaria /Dengue control	1 What is Malaria and Dengue? 2 What is the simpton? 3 How to prevent Malaria/Dengue 4 How to manage when infected	Seeds of Plants	Lecture 2h Practice 3h
Toilets management	1 Prepare simple toilets 2 Management of toilets	Portable toilet	Lecture 2h Practice 3h

Table 8.6.6 (2) Project Cost for Plan for Migrant People

Items	Unit Price (Q)	Amount	Total (Q)	Remarks
(A) Project implementation	LS		116,000	training, monitoring survey and base-line survey
(B) Equipment and material				
Water filter	560	200	112,000	for potable water
Mask /gloves/rain coat	200	200	40,000	for pesticides
Simple toilet	440	200	88,000	
Seeds of repellent plants	100	200	20,000	against Malaria/dengue
(C) Teaching materials	72	250	18,000	
			394,000	