5. Laws and Regulations Related to Water and Sanitation

5. Laws and Regulations Related to Water and Sanitation

Laws and Regulations of Lao PDR related to Water Supply and Sanitation

Year	Name of Law, Regulation, etc.	Agency	
1994	Industrial Waste Discharge Regulation	Ministry of Industry-Handicrafts	
1996	Water and Water Resources Law	Ministry of Health	
1998	Water and Water Resources Law (Updated)	Ministry of Health	
1998	Water and Water Resources Public Health Regulation	Ministry of Health	
1999	Prime Ministerial Decision on Management and Development of the Water Supply Sector	Prime Minister's Office	



6. Economic Cooperation by International Organizations

6. Economic Cooperation by International Organizations

Recent External Support for Rural Water Supply and Sanitation Sector

Implementing Year	Organization	Name of Project/Study	Target Area	Description
1998-2002	SIDA	Five-Year Plan		Institutional strengthening and capacity building of Nam Saat
1998-2004	UNDP-WB	Rural Water Supply and Sanitation, HASWAS	Oudomsay, Phonsali Provinces: 6 Districts	Model case for Sector Strategy; Capacity building of Province and District; Improvement of water supply and sanitation
1994– On–going	WB WSP-EAP	Rural Water Supply and Sanitation Improvement Project	Luang Namtha Provinces: Nale, Luang Namtha, Long Districts	Improvement of water supply and sanitation in line with Sector Strategy
1993	JICA	Project for Groundwater Development in Vientiane Province	Vientiane Province: Phong Hong, Tholakhom, Keo Oudom Districts	Construction of Level I facilities with handpumps, Level II networks with tapstands and maintenance center
1997–1999	JICA	Project for Development of Groundwater in Champasack and Saravanh Provinces	Champasak, Saravanh Provinces	Well drilling and construction of handpump facilities
1999–2001	JICA	Study on Rural Water Supply and Sanitation Improvement in North- West Region in Lao PDR	Luang Namtha Province: Long, Viengphoukha Districts Bokeo Province: Houayxai, Pha Oudom Districts	Development study which includes training, sanitation promotion and participatory implementation of GFS, boreholes, duge wells and latrines through pilot studies in line with Sector Strategy.
,	GTZ	Integrated Rural Development Project	Bokeo Province: Houayxai, Tonpheung, Pha Oudom Districts	Includes construction of water supply facilities
	GTZ	Integrated Rural Development Project	Luang Namtha Province: Sing, Nale, Long Districts	Includes construction of GFS and dugwells
2001–2003	Belgium	Rural Water Supply Component of Belgian Cooperation for MCTPC	Savannaket, Saravanh Provinces	Cooperation includes urban and rural water supply. Nam Papa is in charge of the urban component, and Nam Saat is in charge of rural water supply component, which includes borehole drillings.
2001-2003	World Bank	Rural Water Supply and Sanitation Component of Agricultural Project under Ministry of Agriculture	Attapeu, Champasak, Saravanh, Khammouan, Savannaket Provinces	Agricultural Development Project for which Nam Saat is responsible for the rural water and sanitation, which includes borehole drilings and hygiene promotion in line with the Sector Strategy.

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7. Concerned Persons

CONCERNED PERSONS

Ministry of Health

7.

Dr. Ponmek DALALOY

Dr. Bounkouang PHICHIT

Dr. Chanthanome MANOTHAM

Dr. Nao BOUTTA

Mr. Phoukhong CHOMMALA

Dr. Khemphet VONTHANOUVONG

Dr. Xiengchoy PHANYAWONG

Dr. Khamvieng VILAPHEN

Dr. Songpeth

Minister

Deputy Minister

Director of Cabinet

Deputy Director of Cabinet

Director, Foreign Relations Division

Coordinator of JICA Projects

Deputy Director, Inspection Department Deputy Chief of PHC and RD Division Rural Development Section of Cabinet

Training and Budgeting Section, Planning

and Budgeting Department

Department of Hygiene and Prevention

Deputy Chief **Technical Adviser**

Deputy Director

Deputy Director

Deputy Chief

Director

Chief

Dr. Phitthanousone CHOUMMANIVONG Deputy Chief of Environmental Health Div.

Former Deputy Director

Chief Technical Advisor

National Center for Environmental Health and Water Supply (Nam Saat)

Dr. Thongma ONGKEOBOUNMY

Dr. Vannareth THAMNAVONGSA

Water Supply Division

Dr. Keo Oudom NAMSENA

Mr. Khonekeo PHONGVICHIT

Mr. Somphit

Environmental Health Division

Dr. Bouakeo SUVANTHONG

Chief

Deputy Chief

Head, Hygiene Promotion Section

Engineer, Surface Water Section

Engineer, Surface Water Section

Engineer, Surface Water Section

Engineer, Groundwater Section

Engineer, Groundwater Section Engineer, Groundwater Section

Engineer, Groundwater Section

Engineer, Hygiene Inspection and

Environmental Health Section

Engineer, Hygiene Inspection and

Environmental Health Section

Water Quality Analyst, Hygiene Inspection

and Environmental Health Section

Hygiene Promotion Section

Hygiene Promotion Section

Hygiene Promotion Section

Former Water Quality Analyst, UNICEF

Volunteer

Dr. Bounlay

Dr. Boua KHAM

Dr. Vielaiwon

Dr. Nouanta MANIPHOUSAY Dr. Soutsakhone CHANTHAPHONE

Mr. Kanna BARAN

Mr. Kongkham MIBOUM

Mr. Viengxay VIRAVONG

Mr. Sengphet Mr. Pouvang

Mr. Bounmy PHANCHANTHALA

Mr. Phouthasene

Dr. Boun KEOMANIVONG

Dr. Khonsavanh MALIBYPHIT

Mr. Boungnong

Mr. Chantha VONGTHAVADY

Ms. Thatsany MANUEVONG

Mr. Ving

Ms. Kheuwan SUPHINDALA

Ms. Ounheuane

Ms. Guilliane McLawckle

Administration Division

Dr. Soulinthone INTHAVONG Chief

Dr. Tayphasavanh FENGTHONG Former Deputy Chief

Dr. Khonethip PHOUANGPHET Head, Planning and Statistics Section

Dr. Bounphone

Planning and Statistics Section Ms. Keodokmai PHOUIPASEUTH Planning and Statistics Section

Mr. Khonechai Finance and Procurement Section

Luang Namtha Province

Mr. Singkham PHANTHAVONG Vice Governor Ms. Khamnveng SIVANXAY Chief of Cabinet of Provincial Office

Provincial Health Department

Dr. Phouthone VANGKONEVILAY

Director

Dr. Manivan SAVADIE Deputy Director Mr. Inkeo PHOUTHVONG **Deputy Director**

Dr. Sengthip Chief of Technical Division

Mr. Somsanith Mr. Khammouan Sanitation Technician

Provincial Nam Saat Mr. Somlith SENVANPAN Chief

Mr. Bountham Gravity Feed System Unit Mr. Khamdy Administration

Mr. Khamphan

Provincial Planning and Statistics

Mr. Souphamith Provincial Planning and Statistics Unit Long District

Mr. Namkham KEOBOUNPHAB Vice Governor

Chief of Cabinet Mr. Wan Thong Dr. Somsack THIPMOUN Chief. District Health Department

Dr. Houmphanh District Nam Saat Mr. Somchit District Nam Saat Mr. Khamfeuang **District Nam Saat** Mr. Thongsy District Nam Saat

Ms. Yodsi MANIVANH Deputy Chief, District Lao Women's Union

Ms. Choy District Lao Women's Union Ms. Feng District Lao Women's Union Mr. Phommasouk VILAYKOUN Chief, District Lao Youth Union Mr. Khonkham SISENBGPHET District Rural Development

Mr. Bounthieng **District Education**

Viengphoukha District

Mr. Khamsai Governor Mr. Bounlerd SENGMANY Vice Governor Mr. Bounthong Chief of Cabinet

Dr. Tiengsamone Chief, District Health Department

Dr. Keo INTHAVONG Deputy Chief, District Health Depart, and Director, Viengphoukha District Hospital

Mr. Bounsy CHANKHAMFONG Chief, District Nam Saat

Mr. Somsagat District Nam Saat Ms. Lae SAYAKHAM District Nam Saat

Ms. Manchan District Lao Women's Union Ms. Bounmy

Mr. Tomchang AMPHASOUK

Ms. Manchanh

District Lao Women's Union Chief, District Lao Youth Union

District Lao Women's Union

Bokeo Province

Mr. Boualan SILIPANYA

Mr. Phahon PHOMPANYA

Mr. Soubanh

Governor Vice Governor

Director

Chief of Cabinet.

Deputy Director Deputy Director

Chief of Cabinet

Mr. Visaikone VANNACHOMCHANH Committee of Provincial Governor

Provincial Health Department

Dr. Pheng Sv VIENSAVAN

Dr. Keokham SELITHAM

Dr. Nounchanh

Dr. Sounphone PHANGMANISAY Dr. Bounyok SOMPHANITH

Dr. Thongtheng BOUNSI

Mr. Phouthone Ms. Soung

Dr. Phisith PHOUTSAVATH

Dr. Khampanya

Director, Bokeo Provincial Hospital

Former Deputy Director

Deputy Director, Bokeo Provincial Hospital

Director of Management, Technical Office

Provincial Nam Saat

Mr. Bounchanh VANNACHOMCHAN Chief

Mr. Xaiyaphone BOUNSAVANH

Mr. Kham Lang TAYANIN

Deputy Chief

Deputy Chief of Technical Section Hygiene Division

Dr. Kamsa Mr. Intha KITTISACK

Mr. Somsouk SYTHONG

Dug Well Technician

Sanitation Unit

Ms. Soung

Mr. Phonekeo KHAMMANIPANH

Borehole Technician

Mr. Bounpheng Mr. Sykham

Planning and Cooperation Office

Mr. Hongkeo VINAIVONG

Planning and Cooperation

Planning and Socio-economic Organization

Ms. Phetmani PHADOUANGDET

Mr Thavone SELITHAM

Social Coordinator

Provicinal Lao Women's Union

Ms. Khankeo MANIXAI

Community Development Community Development

Provincial Rural Development

Mr. Sichanh PHOMSAVANH

Chief

Ms. Khonexav **Bokeo Red Cross**

Dr. Boun THEUNG

Houavxai District

Mr. Lee Tou LENG

Dr. Khampheng XAIYACHIACK

Dr. Souphen PHANYADA Mr. Khamsim

Mr. Serth Mr. Phomsavath Governor

Chief of Cabinet

Chief of Cabinet

Chief, District Health Department

District Health Department District Health Department Chief, District Nam Saat

Mr. Khamsin District Nam Saat Mr. Sipraseuth District Nam Saat

Ms. KesoneDistrict Lao Women's UnionMs. ManivoneDistrict Lao Women's UnionMr. Khamdeng PENGXAIChief, District Lao Youth Union

Mr. Khamson District Education

Pha Oudom District

Mr. Chanh Pheng Governor
Mr. Somchit NASANKHON Deputy Governor

Dr. Bountiem KHOUNSAWAN Chief, District Health Department

Dr. Khanchan XAIYAVONG Deputy Chief, District Health Department

Mr. SonekhamDistrict Health DepartmentMr. FengDistrict Health DepartmentMr. PhonesavanhChief, District Nam SaatMr. XaiphoneDistrict Nam Saat

Mr. Thongkhan District Nam Saat
Ms. Dala SEUPXAIYA Chief, District Lao Women's Union

Ms. Manivan SENGSAYAVONG
Mr. Khamseng

Deputy Chief, District Lao Women's Union
Deputy Chief, District Lao Youth Union

Mr. Phonsavath
Mr. Soukvong
District Lao Youtn Union
District Rural Development

Mr. Phonsavat District Education

Ton Pheung District Health Department

Dr. Somphone Deputy Director and

Director, Ton Pheung District Hospital
Dr. Kamsin

Deputy Director, Ton Pheung District Hospital

Vientiane Province

Provincial Nam Saat
Dr. Khamphiane VANMANY Chief

Mr. Somsack Chief of Borehole Drilling Team

Mr. Sonsawat Sanitation Section

Provincial Health Department

Dr. Thongkhanh Chief of Malaria Station

Ministry of Communication, Transport, Post and Construction

Department of Housing and Urban Planning

Mr. Bounleuam SISOULATH Director

Mr. Aphisayadeth INSISIENGMAY Head of Water Supply Division

Lao Water Supply Authority (Nam Papa Lao)

Mr. Somlith SILAPHET Deputy General Manager

World Bank

Mr. Finn NIELSEN Senior Operations Officer

UNDP-World Bank Water and Sanitation Program

Mr. Michael SEAGER Former Country Program Manager

Mr. Santanu LAHIRI Lead Resource-Lao PDR

Water and Sanitation Specialist

Ms. Malin C. KROOK Country Officer

Mr. Johan ARVLING Former Country Officer

Mr. Chander BADLOE

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Mr. Nadarajah S. MOORTHY

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Assistant Project Officer, Water and

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Mr. François DELPORTE Assistant Project Officer,

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Environment Sanitation

UNHCR

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Repatriation Officer

GTZ

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Assistant Project Coordinator, Bokeo

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Ms. Danielle de KNOCKE

Mr. Tim SUTTON

Ms. Chanhsimmaly SUTTON

Chef de Mission

Chief Technical Adviser (Hydraulician)

Social Surveyor

Adventist Development Relief Agency (ADRA)

Mr. Khamsay

Mr. Marcel FREDERIK

Mr. Pamouane

Projects Officer

Project Manager, Luang Namtha Project Coordinator, Luang Namtha

Mr. Jonathan Berkel

Education et Developpement (EED)

Mr. Pascal

Ms. Lith THANOME

Assistant Administrator

Medecins sans Frontieres (MSF)

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Mr. Hugues ROBERT

Mr. Sounphone

Office Head, Bokeo

Administrator/Manager, Project in Bokeo

Local Logistician, Bokeo

Norwegian Church Aide (NCA)

Mr. Willian B. TUFFIN

Mr. Voudthisavath

Chief Technical Advisor, Drug Supply and Demand Reduction Project, Luang Namtha

SA, Bokeo

Embassy of Japan

Mr. Hiroomi SAKAI

Mr. Seiii NAGANO

Mr. Kazunori KAWADA

Mr. Shigeki KOBAYASHI

Former Ambassador

First Secretary

First Secretary

Former First Secretary

JICA Laos Office

Mr. Makoto AOKI

Mr. Tsuneo TAKAHATA

Resident Representative

Former Resident Representative

Mr. Nobuaki MIYATA
Deputy Resident Representative
Mr. Hiroshi HIDAKA
Assistant Resident Representative
Mr. Norihiro IKEDA
Assistant Resident Representative

Mr. Nobuhiro KUMAGAI Former Assistant Resident Representative

Ms. Chie SATO Former Project Formulation Advisor

Mr. Mikio MASAKI Project Formulation Advisor
Mr. Takashi YOSHIMURA Coordinator of JOCV

Mr. Nobuhiro TSUTSUI

Staff

Mr. Sophonh KOUSONSAVATH Program Officer

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Supply Authority (Nam Papa Lao)

JOCV (Japan Overseas Cooperation Volunteers)

Ms. Harumi MARUYAMA Former Water Quality Analyst, Lao Water

Supply Authority (Nam Papa Lao),

Chinaimo Water Treatment Plant

JICA Senior Volunteer

Mr. Makoto SAITO Senior Volunteer, Vientiane Provincial

Nam Saat

8. Participants

8. PARTICIPANTS

8.1 Training Session

No.	Name	Province/District	Affliation and Function			
Trai	Trainees					
- 1	Mr. Bounchanh Vannachomchanh	Bokeo Province	Provincial Nam Saat/Chief			
2	Mr. Xaiyaphone Bounsavanh	Bokeo Province	Provincial Nam Saat/Deputy Chief			
3	Mr. Phonkeo Khammanipanh	Bokeo Province	Nam Saat/Borehole Technician			
4	Ms. Kankeo Manixai	Bokeo Province	LWU/Community Development			
5	Ms. Phetmani Phadouangdet	Bokeo Province	LWU/Community Development			
6	Ms. Khonexay	Bokeo Province	Provincial Rural Development			
7	Mr. Sipraseuth	Houayxai District	District Nam Saat			
8	Mr. Khamsim	Houayxai District	District Health Office			
9	Ms. Kesone	Houayxai District	District LWU			
10	Mr. Phonesavanh	Pha Oudom District	District Nam Saat/Chief			
11	Mr. Thongkhan	Pha Oudom District	District Nam Saat			
12	Ms. Dala Seupxaiya	Pha Oudom District	District LWU/Chief			
13	Mr. Soukvong	Pha Oudom District	District Rural Development			
14	Mr. Somlith	Luang Namtha Prov.	Provincial Nam Saat/Chief			
15	Mr. Souphamith	Luang Namtha Prov.	Planning and Statistics Unit			
16	Mr. Khamdy	Luang Namtha Prov.	Provincial Nam Saat/ Dug Well Technician			
17	Mr. Khampheuang	Long District	District Nam Saat			
18	Mr. Somehit	Long District	District Nam Saat			
19	Ms. Choy	Long District	District LWU			
20	Ms. Yodsi Manivanh	Long District	District LWU/Deputy Chief			
21	Mr. Khonkham Sisengphet	Long District	District Rural Development/ Planning and Statistics Unit			
22	Mr. Phommasouk	Long District	District LYO/Deputy Chief			
23	Mr. Bounsy	Viengphoukha Dist.	District Nam Saat			
24	Mr. Tomchang	Viengphoukha Dist.	District LYO/Chief			
25	Ms. Manchanh	Veingphoukha Dist.	District LWU			

LWU: Lao Women's Union
LYO: Lao Youth Organization

8.2 Training of Trainers (TOT)

8.2.1 Pilot Study

No.	Name	Province/District	Affiliation and Function
Trail	ners		
1	Dr. Keo Oudom	Vientiane	Nam Saat Central/Chief, Water Supply Division
2	Dr. Bouakeo	Vientiane	Nam Saat Central/Chief, Environ. Health Div.
3	Dr. Tayphasavang	Vientiane	Nam Saat Central/Former Dep. Chief, Admin. Div.
4	Dr. Khonethip	Vientiane	Nam Saat Central/Section Head, Administ. Div.
5	Dr. Bounphone	Vientiane	Nam Saat Central/Administration Div.
6	Mr. Khonekeo	Vientiane	Nam Saat Central/Water Supply Div.
7	Ms. Keodok Mai	Vientiane	Nam Saat Central/Administration Div.
Trai	nees		
1	Mr. Somlith	Luang Namtha Prov.	Provincial Nam Saat/Chief
2	Mr. Khamdy	Luang Namtha Prov.	Provincial Nam Saat/Administration
3	Mr. Khammouan	Luang Namtha Prov.	Provincial Health/Sanitation Technician
4	Mr. Khampheuang	Long District	District Nam Saat
5	Mr. Somchit	Long District	District Nam Saat
6	Mr. Bounthieng	Long District	District Education
7	Ms. Feng	Long District	District Lao Women's Union
8	Mr. Phommasouk	Long District	District Lao Youth/Chief
9	Mr. Bounsy	Viengphoukha Dist.	District Nam Saat/Chief
10	Mr. Somsagat	Viengphoukha Dist.	District Nam Saat
11	Ms. Lae	Viengphoukha Dist.	District Nam Saaat
12	Mr. Tomchang	Viengphoukha Dist.	District Lao Youth/Chief
13	Ms. Bounmy	Viengphoukha Dist.	District Lao Women's Union
14	Mr. Bounchanh	Bokeo Province	Provincial Nam Saat/Chief
15	Mr. Xaiyaphone	Bokeo Province	Provincial Nam Saat/Deputy Chief
16	Mr. Phonekeo	Bokeo Province	Provincial Nam Saat/Borehole Technician
17	Mr. Somsouk	Bokeo Province	Provincial Nam Saat/Dug Well Technician
18	Ms. Khankeo	Bokeo Province	Provincial Lao Women's Union/Women Develop.
19	Mr. Phomsavat	Houayxai District	District Nam Saat/Chief
20	Mr. Khamsin	Houayxai District	District Nam Saat
21	Mr. Khamson	Houayxai District	District Education/Formal Education
22	Mr. Khamdeng	Houayxai District	District Lao Youth/Chief
23	Ms. Manivone	Houayxai District	District Lao Women's Union
24	Mr. Xaiphone	Pha Oudom District	District Nam Saat
25	Mr. Thongkhan	Pha Oudom District	District Nam Saat
26	Mr. Phonsavat	Pha Oudom District	District Education
27	Mr. Khamseng	Pha Oudom District	District Lao Youth/Deputy Chief
28	Ms. Manivan	Pha Oudom District	District Lao Women's Union/Development
29	Mr. Sonekham	Pha Oudom District	District Health/Sanitation
30	Mr. Somphone	Bokeo Branch	MSF/Local Logistician
	ervers	<u> </u>	
1	Dr. Pheng Sy	Bokeo Province	Provincial Health Depart./Chief
2	Dr. Nounchanh	Bokeo Province	Provincial Health Depart./Deputy Chief
3	Dr. Manivan	Luang Namtha Prov.	Provincial Health Depart./Deputy Chief
4	Mr. Fujii		JICA Study Team Leader
5_	Mr. Kagawa		JICA Study Team Member
6	Mr. Sybounheung	<u> </u>	JICA Study Team Member

8.2.2 Pilot Study Extension

No.	Name	Province/District	Affiliation and Function			
Trai	Trainers					
1	Dr. Keo Oudom	Vientiane	Nam Saat Central/Deputy Chief, Water Supply Division			
2	Dr. Khonethip	Vientiane	Nam Saat Central/Section Head, Administration Division			
3	Mr. Chantha	Vientiane	Nam Saat Central/Environmental Health Division			
Trai	Trainees					
1	Mr. Somlith	Luang Namtha Province	Provincial Nam Saat/Chief			
2	Mr. Bountham	Luang Namtha Province	Provincial Nam Saat			
3	Mr. Khamphan	Luang Namtha Province	Provincial Nam Saat			
4	Mr. Somsanith	Luang Namtha Province	Provincial Health			
5	Dr. Houmphanh	Long District	District Nam Saat			
6	Mr. Thongsy	Long District	District Nam Saat			
7	Mr. Somehit	Long District	District Nam Saat			
8	Ms. Feng	Long District	District Lao Women's Union			
9	Mr. Phommasouk	Long District	District Lao Youth/Chief			
10	Mr. Lao Neng	Long District	Daen Kang Village Caretaker			
11	Mr. Somsagat	Viengphoukha District	District Nam Saat			
12	Ms. Lae	Viengphoukha District	District Nam Saaat			
13	Mr. Tomchang	Viengphoukha District	District Lao Youth/Chief			
14	Ms. Manchan	Viengphoukha District	District Lao Women's Union			
15	Mr. Kerd Yi	Viengphoukha District	Nam Seua Village Chief			
16	Dr. Keokham	Bokeo Province	Provincial Health Depart./Deputy Chief			
17	Dr. Nounchang	Bokeo Province	Provincial Health Depart./Deputy Chief			
18	Mr. Phouthone	Bokeo Province	Provincial Health Department			
19	Ms. Soung	Bokeo Province	Provincial Health Department			
20	Mr. Bounchanh	Bokeo Province	Provincial Nam Saat/Chief			
21	Mr. Xaiyaphone	Bokeo Province	Provincial Nam Saat/Deputy Chief			
22	Mr. Phonekeo	Bokeo Province	Provincial Nam Saat/Borehole Technician			
23	Mr. Somsouk	Bokeo Province	Provincial Nam Saat/ Dug Well Technician			
24	Mr. Intha	Bokeo Province	Provincial Nam Saat			
25	Mr. Bounpheng	Bokeo Province	Provincial Nam Saat			
26	Mr. Sykham	Bokeo Province	Provincial Nam Saat			
27	Ms. Khankeo	Bokeo Province	Provincial Lao Women's Union			
28	Mr. Serth	Houayxai District	District Health Department			
29	Mr. Khamsin	Houayxai District	District Nam Saat			
30	Mr. Khamson	Houayxai District	District Education/Formal Education			
31	Mr. Khamdeng	Houayxai District	District Lao Youth/Chief			
32	Ms. Manivone	Houayxai District	District Lao Women's Union			
	<u> </u>	1 IIvanyani District	PARTITION AND THOMAS OF STATES			
1	Observers 1 Dr. Phouthone Luang Namtha Province Provincial Health Department/Chief					
$\frac{1}{2}$		Bokeo Province	Provincial Health Department/Chief			
3	Dr. Phengsy	DOREO I TOYLICE	JICA Study Team Leader			
	Mr. Fujii	· · · · · · · · · · · · · · · · · · ·	JICA Study Team Member			
4	Mr. Miyoshi					
5	Mr. Manochit		JICA Team Contracted Facilitator			

8.3 Workshops

8.3.1 Workshop on Phase I Results

Nam	Saat	Central	
ivam	Saat	Centrai	

Dr. Vannareth Thamnavongsa

Mr. Kanna Baran

Dr. Keo Oudom Namsena Dr. Bouakeo Suvanthong

Dr. Tayphasavanh Fengthong

Dr. Khonethip Pengpouang

Mr. Phouvang

Luang Namtha Province

Dr. Phouthone Vangkonevilay

Mr. Somlith Senvanpan

Viengphoukha District

Dr. Tiengsamone

Long District

Dr. Somsack Thipmoun

Bokeo Province

Dr. Nounchanh

Mr. Bounchan Vanachomchan

Houayxai District

Dr. Khankham

Pha Oudom District Dr. Boutiem

NGO

Mr. Marcel Frederik

Mr. Pamouane

JICA Study Team

Mr. Shoji Fujii

Ms. Noriyo Aoki

Mr. Sybounheung Phandanouvong

Ms. Kiyoko Takamizawa

Deputy Director

Chief Technical Advisor

Deputy Chief of Water Supply Division

Chief of Environmental Health Division

Former Deputy Chief of Administration

Division

Head of Planning and Statistics Section,

Administration Division

Engineer, Water Supply Division

Director of Provincial Health Department

Chief of Provincial Nam Saat

Chief of District Health Department

Chief of District Health Department

Deputy Director of Provincial Health

Department

Chief of Provincial Nam Saat

District Nam Saat

District Health Department

Project Officer, ADRA

Project Coordinator, ADRA

Team Leader

 ${\bf Member}$

Member

Member

Nam Saat Central

Dr. Tayphasavanh Fengthong

Dr. Khonethip Pengpouang

Dr. Bounphone

Bokeo Province

Dr. Peng Sy Viensavan Mr. Bounchan Vanachomchan

Ms. Bouaxing Simpanya

Mr. Somlith

Mr. Sychan Phomsavan

Mr. Inkham

Mr. Xaiyaphone

Mr. Phonkeo Kammaniphan

Mr. Somsouk Sythong

Ms. Khankeo

Houayxai District

Mr. Phomsavath Mr. Khamsim

Mr. Khamdeng Pengxai

Mr. Khamsone

Ms. Manivone

Pha Oudom District

Mr. Thongkhan

Mr. Khamseng

Mr. Feng

Mr. Souekham

Ms. Manivan Sengsayavong

Mr. Phonesavath

Luang Namtha Province

Mr. Maikhamdee

Mr. Khammone

Viengohoukha District

Mr. Bounsy Chankhamfong

Ms. Lea Sayakham

Mr. Somsagat

Mr. Tomchang Amphasouk

Long District

Mr. Phomasouk Vilaykoun

Mr. Bounthieng

NGO

Ms. Maite Pahud

Mr. Somphone

Mr. Pascal

JICA Study Team

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Mr. Shigevoshi Kagawa

Mr. Sybounheung Phandanouvong

Former Deputy Chief of Administration

Division

Head of Planning and Statistics Section,

Administrative Division

Monitoring and Evaluation, Planning and Statistics Section, Administrative Division

Chief of Provincial Health Department

Chief of Provincial Nam Saat

President of Provincial LWU

Chief of Provincial Youth

Chief of Provincial Rural Development

Deputy Chief of Provincial Education Deputy Chief of Provincial Nam Saat

Technician, Provincial Nam Saat

Technician, Provincial Nam Saat

Women Development, Provincial LWU

Chief of District Nam Saat

Technician, District Nam Saati

Chief of District Youth

District Education Office

District LWU

District Nam Saat

Deputy Chief of District Youth

District Health

District Sanitation Sector

Deputy Chief of District LWU

Chief of Kindergarten Sector, District Youth

Administration, Provincial Nam Saat

Sanitation Technician, Provincial Nam Saat

Chief of District Nam Saat

District Nam Saat.

District Nam Saat

Chief of District Youth

Chief of District Youth

Personal Sector, District Education Office

Bokeo Office Chief

Logistician, MSF Bokeo

EED

Team Leader

Member

Member

Workshop on Phase II Results

Ministry of Health

8.3.3

Dr. Phithanousone Chaumnanyvong

Mr. Visit Khamleusa

Nam Saat Central

Dr. Nouanta Maniphousay Dr. Keo Oudom Namsena Dr. Bouakeo Souvanthong

Dr. Bounphone

Bokeo Province
Mr. Phahon Phompanya

Mr. Visaikone Vannachomchanh

Dr. Pheng Sy Viensavan

Dr. Nounchanh

Dr. Bounyok Somphanith Dr. Thongtheng Bounsi

Mr. Bounchan Vannachomchanh

Mr. Somsouk Ms. Soung

Mr. Hongkeo Vinaivong Mr Thavone Selitham

Mr. Sichanh Phomsavanh

Houavxai District

Mr. Lee Tou Leng Ms. Souphen Panyada

Pha Oudom District

Mr. Chanh Pheng

Mr. Bouthiem

Luang Namtha Province

Dr. Phouthone Vangkonevilay

Mr. Somlith Senvanpan Viengphoukha District

Mr. Bounlerd Sengmany

Dr. Tiengsamone

Long District

Mr. Namkham Keobounphab

Dr. Somsack Thipmoun

Other Organizations

Dr. Boun Theung

Dr. Somvang

Mr. Voudthisavath

Mr. Sounphone

Ms. Lith Thanome

ЛСА Study Team

Mr. Shoji Fujii

Ms. Norivo Aoki

Mr. Sybounheung Phandanouvong

Mr. Manochit Panichith

Chief of Environmental Division, Hygiene Department

Health Center

Director

Deputy Chief of Water Supply Division Chief of Environmental Health Division Planning and Statistics Section

Vice Governor

Committee of Provincial Governor Chief of Provincial Health Department Deputy Chief of Prov. Health Department Chief of Cabinet, Prov. Health Department Management Director of Prov. Health Dep.

Chief of Provincial Nam Saat

Provincial Nam Saat Provincial Nam Saat

Planning and Cooperation Office Social Coordinator of Planning and

Socio-economic Organization

Chief of Provincial Rural Development

Governor

Chief of Cabinet, District Health Depart.

Governor

Chief of Cabinet, District Health Depart.

Director of Provincial Health Department Chief of Provincial Nam Saat

Vice Governor

Chief of District Health Department

Vice Governor

Chief of District Health Department

Chief of Cabinet, Bokeo Red Cross

Assistant Project Coordinator, Bokeo GTZ

SA, Bokeo NCA

Logistician, MSF

Assistant Administrator, EED

Team Leader

Member

Member

Team contracted Facilitator

Ministry of Health

Dr. Chanthanome Manotham

Dr. Xiengchoy PHANYAWONG

Dr. Khamvieng VILAPHEN

Dr. Songpeth

Dr. Bounlay

Dr. Vielaiwon

Nam Saat Central

Dr. Nouanta Manouphousay

Dr. Soutsakhone Chanthaphone

Mr. Kanna Baran

Dr. Keo Oudom Namsena

Dr. Bouakeo Suvanthong

Dr. Bounphone

Ms. Kheuwan Suphindala

Mr. Chantha Vonthavady

Mr. Bounmy Phanchanthala

Mr. Khonkeo Phongvichit

Luang Namtha Province

Dr. Phouthone Vangkonevilay

Mr. Somlith Senvanpan

Viengphoukha District

Mr. Bounthong

Dr. Thiengsamone

Long District

Mr. Wan Thong

Dr. Somsack Thipmoun

Bokeo Province

Dr. Keokham Selitham

Mr. Bounchanh Vannachomchan

Houavxai District

Mr. Khampheng Xaiyachiack

Dr. Souphen Phanyada

Pha Oudom District

Mr. Somchit Nasankhon

Mr. Bounthien Khounsawan

Bolikamsay Province

Mr. Satanam

WB WSP-EAP

Mr. Santanu Lahiri

UNICEF

Ms. Maliporn Virachith

Director of Cabinet

Deputy Director, Inspection Department

Deputy Chief of PHC and RD Division

Rural Development Section of Cabinet

Training and Budgeting Section, Planning

and Budgeting Department

Deputy Chief, Department of Hygiene and

Prevention

Department of Hygiene and Prevention

Director

Deputy Director

Chief Technical Adviser

Deputy Chief of Water Supply Division

Chief of Environmental Health Division

Administration Division

Environmental Health Division

Environmental Health Division

Water Supply Division

Water Supply Division

Director of Provincial Health Department

Chief of Provincial Nam Saat

Chief of Cabinet

Chief of District Health Department

Chief of Cabinet

Chief of District Health Department

Deputy Director of Prov. Health Depart.

Chief of Provincial Nam Saat

Chief of Cabinet

Chief of District Health Department

Deputy Governor

Chief of District Health Department

UNV Technical Adviser

Lead Resource-Lao PDR, Water and

Sanitation Specialist

Assistant Project Officer Water and

Environmental Sanitation

NGQ

Mr. Jonathan Berkel

JICA Laos Office

Mr. Makoto Aoki

Mr. Norihiro Ikeda

Ms. Chie Sato

JICA Study Team

Mr. Shoji Fujii

Ms. Noriyo Aoki

Mr. Sybounheung Phandanouvong

Mr. Izumi Atsuta

Mr. Akihiko Uchiyama

Ms. Kiyoko Takamizawa

Mr. Akinori Miyoshi

Private Organizations

Mr. Suwangno

Mr. Phonekeo

Mr. Khamsay

Ms. Phoukham

Mr. Chanhassem

Mr. Daoheuang

ADRA

Resident Representative

Assistant Resident Representative

Formulation Project Adviser

Team Leader

Member

Member

Member

Member

Member

Member

Champa Lao Consulting

Vientiane Times

Passason Newspaper

Vientiane Mai Newspaper

Lao TV

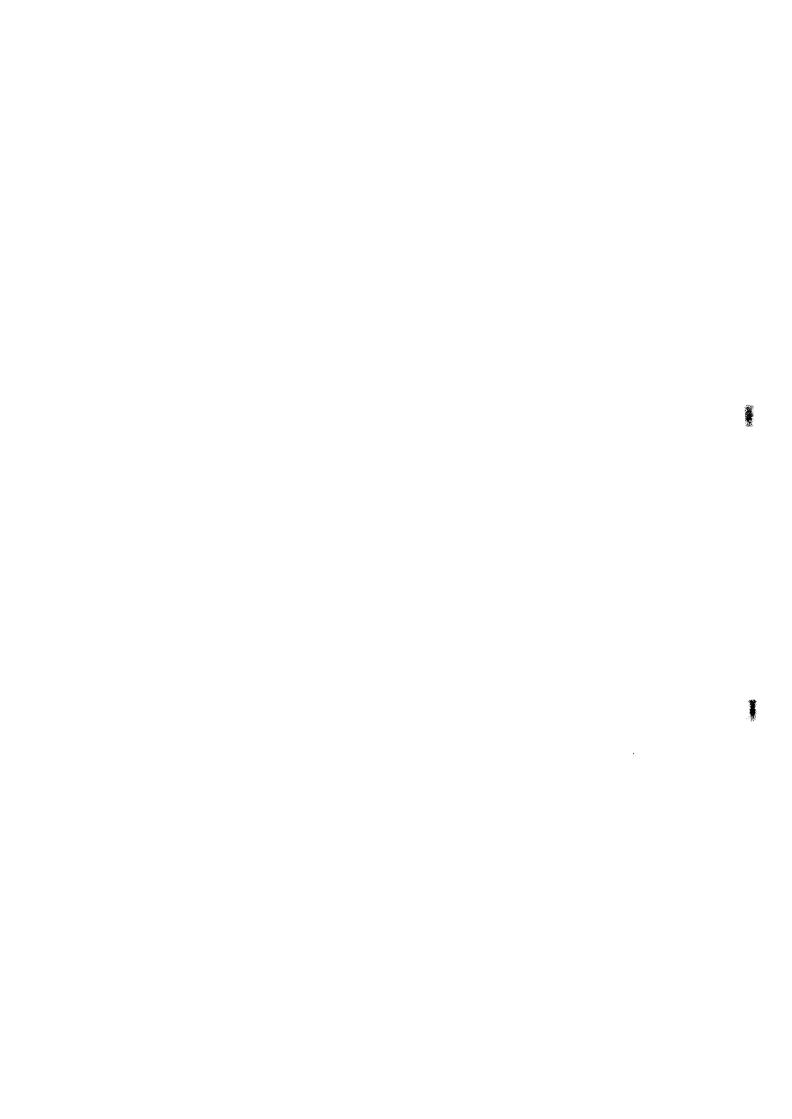
Lao TV3

9. List of Equipment to be Supplied

9. LIST OF EQUIPMENT TO BE SUPPLIED

The equipment listed below were supplied by the JICA Study Team for use during the village survey and study activities. The items listed below are donated to the Lao side at the end of the Study.

Item	Quar	itity			
Village Survey Equipment					
1. Water Quality Analyzer	5	sets			
2. Hand Level	5_	each			
3. Aluminum Staff (Pole)	5	each			
4. Tape Measure, 50 m	5	each			
5. Altimeter	5	each			
6. Compass	5	each			
7. Global Positioning System (GPS)	2	each			
8. Bucket	3	each			
9. Tent (for 3 to 4 persons)	10	each			
10. Table with 6 Chairs	5	sets			
11. White Board, 60 x 80 cm with Accessories	5	sets			
12. Rechargeable Lighting Apparatus	5	sets			
13. Cooking Set	5	sets			
14. Sleeping Bag	30	each			
15. Rain Coat	30	each			
16. Trekking Shoes	30	pairs			
17. Generating Set	2	sets			
Office Supplies					
1. Photocopy Machine	2	sets			
2. Desk Top Computer with Accessories	2	sets			
3. Printer for above Computer	2	sets _			
Hygiene Promotion Equipment					
1. Digital Camera	2	sets			
2. Lap-Top Personal Computer with Accessories	2	sets			
3. LCD Projector	2	sets			
4. PA System with Microphone	2	sets			
5. Generator with Stabilizer	2	sets			



10. Minutes of Meetings

MINUTES OF MEETINGS

ON

SCOPE OF WORK

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN
THE MINISTRY OF HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Luang Prabang, October 21, 1998

Mrs. Chanthanome MANOTHAM Director of Cabinet,

Ministry of Health

九尾祐治

Dr. Yuji MARUO Leader of the Preparatory Study Team, Japan International Cooperation Agency (JICA)

1. Introduction

In response to the request of the Government of the Lao People's Democratic Republic (hereinafter referred to as "the Government of Lao"), the Preparatory Study Team (hereinafter referred to as "the Team") of the Japan International Cooperation Agency (hereinafter referred to as "JICA") visited Lao from October 5 to 30, 1998 to discuss the Scope of Work (hereinafter referred to as "S/W") for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic (hereinafter referred to as "the Study").

The Team carried out field surveys of the study area and held a series of discussions with the authorities concerned of the Ministry of Health (hereinafter referred to as "the MOH"), and other organizations.

The list of attendants is shown in Appendix.

The Minutes of Meetings has been prepared for the better understanding of the S/W agreed upon between the MOH and the Team on October 21, 1998, summarizing main points of the discussions made in the course of the preparation of the S/W.

2. Study Title

Both sides agreed that the title of the Study would be "the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic" as described in the S/W.

3. Study Area

The Team explained that the five provinces with four hundred forty eight (448) target villages in them which were originally requested by the Government of Lao would be too many to study in detail at a time, and that one or two provinces would be selected for the study. The Team also explained that total number of target villages should be not more than eighty (80) when those are taken into consideration that usual rainy season starts from late May and the field study of the phase I should be completed by that time.

In accordance with the national policy of the sector strategy and recommendation of the MOH, the Team selected Luang Namtha and Bokeo which are located more remote than other three (3) provinces. The Team will choose forty two (42) villages from Luang Namtha and thirty eight (38) villages from Bokeo provinces as the target villages for the study. Those target villages must be located not far from any mortarable roads.

The MOH agreed with the selection.

4. Demand Projection

It is a general practice of this area that demand projection of fifteen (15) years is applied to the designing of rural water supply facilities using the fixed rate of population growth. The Study will follow the way of the general practice, although the Study will introduce most realistic rate of population growth.

5. Counterpart Personnel

It was confirmed that the MOH would assign some counterpart personnel to the specialists of the Study with Director of Nam Saat (Water Supply and Environmental Health Programme) as a chief counterpart. It was also confirmed that at least one (1) staff from

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the provincial or the district Nam Saat Office would accompany with a field research group when the groups visit the target villages.

6. Office Space and Vehicles

The Team requested that the MOH would provide the suitable office space with necessary equipment in Luang Namtha and Bokeo provinces, sufficient numbers of vehicles with drivers for the Study. The MOH, however, expressed concern that, due to the budgetary constraints and remoteness of the locations, such a request could not be fulfilled. The Team recognized the situation and promised to convey the message to JICA H.Q. for consideration.

7. Counterpart Training in Japan

The MOH requested that JICA conduct counterpart training for one (1) month in Japan for the purpose of the smooth transfer of technology during the Study. The Team agreed to convey this request to JICA H.Q. for consideration.

8. Reports

In order to clarify the status and nature of the respective reports, title of some reports in the original Scope of Work were changed as follows, Progress Report (2) to Phase I Report, Interim Report to Progress Report (2), Progress Report (3) to Phase II Report, Monitering Progress Report to Progress Report (3).

The MOH requested that main report and summary of Draft Final and Final Reports would be translated into Lao Language for wider dissemination of the outcome to the provincial and district levels. The Team will convey this request to JICA H.Q. for consideration.

The MOH agreed to make all the reports open to public in order to achieve maximum use of the Study results.

9. Work Shops

Both the MOH and the Team recognized the necessity to hold work shops at least three (3) times when the study team submits the Phase I Report, Phase II Report and Draft Final Report for sharing the learnings and for exchanging views with related officials and other donors and NGOs which have been operating similar projects.

The Team will convey the information to JICA H.Q. for positive consideration.

10. Type of Water Supply

According to the information from provincial Nam Saat and after thier own field visit, both the MOH and the Team recongnized that the most popular type of rural water supply in the north-west region is the gravity piped scheme, and that although there are quite a few tube wells in the region, water quality of those wells are usually not favorable for drinking. Taking these information into consideration, the Team suggested that geophysical exploration and test well drilling works may not be necessary to be included in the phase II study. If in case it is recommended by the study team to conduct the geophysical exploration and test well drilling as a result of phase I study, JICA will consider again to carry out these works.

The MOH understood the situation.

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APPENDIX

LIST OF ATTENDANTS

(Lao Side)

Ministry of Health

Dr. Bounkouang PHICHIT

Mrs. Chanthanome MANOTHAM

Mr. Phoukhong CHOMMALA

Dr. Nouanta MANIPHOUSAY

Vice-Minister of Health

Director of Cabinet

Director, Foreign Relations Division Program Manager of Water Supply and

Environmental Health Programme

(Nam Saai)

Dr. Soutsakhone CHANTHAPHONE

Deputy Manager of Water Supply and

Environmental Health Programme

(Nam Saat)

Prime Minister's Office Committee for Investment and Cooperation

Mr. Soulasith OUPRAVANH

Deputy General Director, Bilateral Cooperation, Dept. of International

Economic Cooperation

Luang Prabang Province

Mr. Chansy PHOSIKHAM

Ms. Amone SIRIVONG

Mr. Khampheua PHALYVANH

Governor

Deputy Director, Department of Health

Deputy Director, Water supply and

Environment Health Section (Nam Saat),

Dept. of Health

Bokeo Province

Mr. Mai Bunchan WANNACHOOMCHAN

Director, Water Supply and Environment

Health Section (Nam Saat), Dept. of

Health

UNDP-World Bank Water and Sanitation Program

Mr. Michael SEAGER

Country Program Manager, Lao P.D.R.

and Cambodia

Mr. Johan ARVLING

Country officer, Lao P.D.R.

UNICEF

Mr. Rafael Diaz Diaz

Project Officer, Water and Environmental

Sanitation

Dr. K. S. MUNG

Mr. Malipom VIRACHITH

Mr. Nadarajah S. MOORTHY

Project Officer, Health and Nutrition

Assistant Project Officer, Water and

Environmental Sanitation

Assistant Project Officer, Water and

Environmental Sanitation

Food For The Hungry International (NGO)

Mr. John R. Gowdy

Country Director, Lao P.D.R.

Min

4.

Southeast Asia Regional Representative

Action Contre la Faim (NGO) Mr. Onekham Keokanong

Hydrological Technical Assistant

(Japanese Side)

Embassy of Japan

Mr. Shigeki KOBAYASHI

Mr. Seiji NAGANO

JICA Lao Office

Mr. Tsuneo TAKAHATA

Mr. Nobuhiro KUMAGAI

Mr. Yusuke TADA

Mr. Mikio MASAKI

Dr. Hiroyuki AMANO

Dr. Sophonh KOUSONSAVATH

The Preparatory Study Team

Dr. Yuji MARUO

Mr. Yasumichi ARAKI

Mr. Shogo SHIBATA

Mr. Makoto YASUDA

Ms. Kimiko ABE

Mr. Akio MURAYAMA

First Secretary
Second Secretary

President Representative

Assistant President Representative

Project Formulation Advisor

Project Formulation Advisor

Expert, Health and Medical Cooperation

Planning Adviser

Programme Officer

Leader

Member

Member

Member

Member

Interpreter

Misi

SCOPE OF WORK

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN.

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN
THE MINISTRY OF HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Luang Prabang, October 21, 1998

Mrs.Chanthanome MANOTHAM

Director of Cabinet, Ministry of Health 九尾祐治

Dr. Yuji MARUO Leader of the Preparatory Study Team, Japan International Cooperation Agency (JICA)

I. INTRODUCTION

In response to the official request of the Lao People's Democratic Republic (hereinafter referred to as "the Government of Lao"), the Government of Japan decided to conduct a Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

The Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Lao.

The present document sets forth the Scope of Work for the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- (1) to identify the existing issues on rural water supply and sanitation through the investigation of the present rural water supply and sanitation situation,
- (2) to formulate rural water supply and sanitation improvement plan for the selected target villages, and
- (3) to transfer skills and technology of water resources development and management for potable water to counterpart personnel in the course of the Study.

II. STUDY AREA

The Study will cover about eighty (80) villages in Luang Namtha and Bokeo provinces in North-West Region.

IV. SCOPE OF THE STUDY

Phase I Baseline Study and Analysis

- 1. Collection, review and analysis of related data and information
- a. social and economic conditions
- b. topographical and hydrogeological maps
- c. meteorological, hydrological, geological data
- d. existing well data and existing water supply facilities
- e. data on rural living conditions
- f. on-going and planned projects relevant to the Study
- g. laws, regulations and policies on water resource development and water supply services
- h. other relevant data and information
- 2. Field reconnaissance
 - a. hydrological and hydrogeological investigation
 - b. topographical and geological investigation
- 3. Inventory and assessment on possible water sources and existing water supply facilities

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- 4. Study on actual condition and people's aspiration of target villages
 - a. economic conditions
 - b. sociological configuration
 - c. sanitation and hygiene
 - d. gender issues
 - e. villager's will on water supply development
- 5. Initial Environmental Evaluation (IEE)

Phase II: Water Resources Potential Study for Potable Water and Pilot Study

- 1. Field study
 - a. topographical and geological investigation
- b. rivers and springs
- c. hydrogeological investigation
- 2. Preparation and selection of villages for pilot study
- 3. Geophysical exploration
- 4. Test well construction, well logging, pumping test and water quality analysis
- 3. Observation of groundwater level, spring water, river flow and their water quality analysis
- 4. Evaluation of water resources potential for potable water
- 5. Model water supply facility construction for pilot study (gravity system, spring protection, rain water harvesting, tube well, etc.)
- 6 Implementation of pilot study for people's participation in planning, construction, operation and maintenance of water supply facilities and sanitary education

Phase III: Formulation of Development Plan on Rural Water Supply and Sanitation Improvement

- 1. Formulation of basic strategy
- 2. Formulation of water supply plan and preliminary design of appropriate facilities for various water sources
- 3. Formulation of operation and maintenance plan
- 4. Formulation of institution and organization plan
- 5. Formulation of sanitary education plan
- 6. Cost estimation
- 7. Monitoring of the Pilot Study

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- a. observation of changes in custom and behavior related to water use and sanitation
- b. monitoring of operation and maintenance condition
- c. observation of groundwater level, spring water flow and water quality analysis
- d. evaluation of the pilot study and feedback for the development plan
- 8. Evaluation of the development plan
 - a. financial plan and evaluation
 - b. institutional and technical evaluation
 - c. socio-economic evaluation
 - d. environmental impact assessment
 - e. WID evaluation
- 9. Formulation of implementation program and prioritization

V. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in the appendix. The schedule is tentative and subject to be modified when both parties agree upon any necessity that will arise during the course of the Study.

VI. REPORTS

JICA shall prepare and submit the following reports in English to the Government of Lao.

1. Inception Report:

Thirty (30) copies at the commencement of the first work in Lao.

2. Progress Report (1):

Thirty (30) copies at the end of the first work in Lao.

3. Phase I Report:

Thirty (30) copies at the commencement of the second work in Lao. This report will contain the results of the Phase I and the schedule and methodology of the Phase II and Phase III study program.

4. Progress Report (2):

Thirty (30) copies at the end of the second work in Lao.

5. Phase II Report:

Thirty (30) copies at the commencement of the third work in Lao.

6. Progress Report (3):

Thirty (30) copies at the end of the third work in Lao.

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7. Draft Final Report:

Thirty (30) copies at the end of the forth work in Lao. The Government of Lao shall submit its comments within one (1) month after the receipt of the Draft Final Report.

8. Final Report:

Final Report will consist of Main Report, Supporting Report, Data Book and Summary. Fifty (50) copies will be submitted within one (1) month after the receipt of the comments on the Draft Final Report.

M. UNDERTAKINGS OF THE GOVERNMENT OF LAO

- 1. To facilitate the smooth conduct of the Study, the Government of Lao will take the following necessary measures:
- (1) To secure the safety of the Japanese study team (hereinafter referred to as "the Team")
- (2) To permit the members of the Team to enter, leave and sojourn in Lao for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees
- (3) To exempt the members of the Team from taxes, duties, fees and any other charges on equipment, machinery and other materials brought into Lao for the conduct of the Study
- (4) To exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study
- (5) To provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Lao from Japan in connection with the implementation of the Study
- (6) To secure permission for the Team to enter into private properties or restricted areas for the implementation of the Study
- (7) To secure permission for the Team to take all data and documents (including photographs and maps) related to the Study out of Lao to Japan
- (8) To provide medical services as needed, expenses for which will be chargeable to the members of the Team.
- 2. The Government of Lao shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the member of the Team.



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- 3. The Ministry of Health shall act as a counterpart agency to the Japanese Study Team and also as a coordinating body in relation with other governmental and non-governmental organizations for the smooth implementation of the Study. The Ministry of Health shall, at its own expense, provide the Team with the followings, in cooperation with other organizations concerned:
 - (1) available data and information related to the Study
 - (2) counterpart personnel
 - (3) suitable office space with necessary equipment
 - (4) credentials or identification cards
 - (5) an appropriate number of vehicles with drivers.

WI. UNDERTAKINGS OF JICA

For the implementation of the Study, IICA shall take the following measures:

- 1. to dispatch, at its own expense, study teams to Lao
- 2. to pursue technology transfer to counterpart personnel in the course of the Study.

X. CONSULTATION

JICA and the Ministry of Health shall consult with each other in respect of any matter that may arise from or in connection with the Study.

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APPENDIX

TENTATIVE SCHEDULE

MONTH	1 2	<u>س</u>	4	5	9	7	∞ ,	0,	10 11		[2]	3 1	4	5 10	12 13 14 15 16 17 18 19 20 21 22 23 24	18	19	20	21	22	23	24
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IC/R : Inception Report

P/R : Progress Report

P I/R : Phase I Report
P II/R : Phase II Report
DF/R : Draft Final Report

F/R : Final Report

ON

INCEPTION REPORT

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, February 24, 1999

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and Water Supply (Nam Saat)

Ministry of Health

Mr. Shoji FÜJI Team Leader JICA Study Team

Witness:

丸尾祐治

Dr. Yuji MARUO Technical Advisor Development Specialist, JICA Discussions were made on the Inception Report for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the Inception Report were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

- 1. After discussions with the Provincial officers of Nam Saat Luang Namtha and related agencies, it was realized that more remote areas are in need of assistance and also, some duplications of villages with other donors were found. Then, the Japanese side expressed their idea to consider these views and as a result, to concentrate the target area to two Districts of Long and Viengphoukha. Therefore if necessary, the distribution of villages will be adjusted with Bokeo Province.
- 2. The Lao side agreed to make the final decision on counterpart candidates who will conduct the field surveys with the Study Team before the beginning of March 1999 in consideration of:
 - (1) full time assignment to the JICA Study,
 - (2) appropriate District allocation of responsibilities and
 - (3) equal representation of gender.

Furthermore, the Lao side assured the confirmation of counterpart personnel to be trainers for the above field surveys before the end of February 1999.

3. Both sides agreed that any submitted reports in the Lao language are to be used as reference and those reports in the English language will prevail.

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LIST OF ATTENDANTS

Ministry of Health

Dr. Ponmek DALALOY

Minister

Dr. Bounkouang PHICHIT

Vice-Minister

Mr. Phoukhong CHOMMALA

Director, Foreign Relations Division

National Center for Environmental Health and Water Supply (Nam Saat)

Dr. Nouanta MANIPHOUSAY

Director

Dr. Vannareth THAMAVONGSA

Deputy Director

Dr. Tayphasavanh FENGTHONG

Deputy Director

Dr. Soutsakhone CHANTHAPHONE Deputy Director

Luang Namtha Province

Mr. Singkham PHANTHAVONG

Vice Governor

Ms. Khamgneng SIVANXAY

Chief Cabinet of Provincial Office

Provincial Department of Health

Dr. Phouthone VANGKONEVILAY

Director of Public Health Department

Mr. Inkeo PHOUTHVONG

Deputy Director of Public Health Department

Mr. Somsack THIPMOUN

Chief of Long District Public Health Department

Water Supply and Hygiene Section (Provincial Nam Saat)

Mr. Somlith SENVANPAN

Chief of Section

Dr. SENGTHIP

Chief of Technical Division

Bokeo Province

Public Health Department

Dr. Pheng Sy VIENSAVAN

Chief of Public Health Department

Dr. NOUCHANH

Deputy Chief of Public Health Department

Water Supply and Hygiene Section (Provincial Nam Saat)

Mr. Bounchanh WANNACHOMCHAN Chief of Section

Dr. KAMSA

Hygiene Division

Embassy of Japan

Mr. Seiji NAGANO

Second Secretary

ЛСA LaosOffice

Mr. Nobuhiro KUMAGAI

Assistant Resident Representative

Mr. Mikio MASAKI

Project Formulation Advisor

Mr. Sophonh KOUSONSAVATH

Programme Officer

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JICA Expert

Dr. Hiroyuki AMANO

Health and Medical Cooperation Planning Adviser

JICA Headquarters

Dr. Yuji MARUO

Technical Advisor

Mr. Yasumichi ARAKI

Staff

ЛСА Study Team

Mr. Shoji FUJII

Ms. Noriyo AOKI

Ms. Khamtanh CHANTY

Team Leader

Member

Member

- N

J.A.

ON

PROGRESS REPORT (1)

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF PUBLIC HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, June 25 1999

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and Water Supply (Nam Saat)

Ministry of Public Health

Team Leader ЛСА Study Team

Mr. Shoji FUJH

Discussions were made on the Progress Report (1) for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the Progress Report (1) were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

- 1. During the "Approval Meeting" held in Luang Namtha on June 7 1999, all the attendants at the meeting (the List of Attendants is attached) mutually agreed upon the preliminary selection of candidate villages for the pilot study. Based on this tentative list, the pilot study village list will be finalized after analyzing the technical survey data, in consideration of the budget and implementation period.
- 2. The Lao side agreed to organize counterpart personnel and prepare a program of animation and education to be implemented during the pilot study in Phase II through the initiative of the Lao side. The program outline, required manning schedule and list of necessary materials for this program will be sent to the JICA Study Team by the beginning of August 1999.
- 3. One counterpart from Nam Saat Central is assigned to coordinate the JICA Study. He is responsible mainly for the technical aspects of the Study. In addition, the Lao side agreed to nominate at least the following counterparts for full assignment to the Study:
 - a. A non-technical (social survey) counterpart
 - b. A sanitation counterpart



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LIST OF ATTENDANTS AT APPROVAL MEETING

Date: 7 June 1999 Place: Luang Namtha

Attendants:

Mr. Sing Kham Panthavong

Dr. Boua Kham

Vice Governor of Luang Namtha Province

Technical Adviser, Department of Hygiene,

Ministry of Public Health

Dr. Nouanta Maniphousay

Mr. Kanna Baran

Dr. Keo Oudom Namsena

Director, Nam Saat Central

Chief Technical Adviser, Nam Saat Central

Deputy, Water Supply Division, Nam Saat Central

Coordinator for JICA Study.

Mr. Viengxay Viravong

Dr. Phouthone Vangkonevilay

Mr. Somlith Senvanpan

Dr. Thieng Samon

Mr. Somsack Thibmuon

Dr. Thongthang Bounsi

GFS Engineer, Water Supply Division, Nam Saat Central

Director of Luang Namtha Provincial Public Health

Director of Luang Namtha Provincial Nam Saat

Director of Viengphouka District Public Health

Director of Long District Public Health

Director of Management, Technical Office,

Bokeo Provincial Public Health

Mr. Bounchan Vannachonchan

Dr. Suphen Phanyada

Dr. Khanchan Sayyavong

Director of Bokeo Provincial Nam Saat

Director of Cabinet, Houayxai District Public Health

Deputy Director of Cabinet, Pha Oudom District Public

Health

Mr. Shoji Fujii

Mr. Nobuyuki Ishii

Mr. Phoutsavong Thonaochour

ЛСА Study Team Leader

JICA Study Team Member

JICA Study Team contracted interpreter

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ON

PHASE I REPORT

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

N

NORTH-WEST REGION

ĪN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, October 21, 1999

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and

Water Supply (Nam Saat)

Ministry of Health

Mr. Shoji FUJII Team Leader JICA Study Team

Dr. Yuji MARUO

Leader

JICA Advisory Team

Discussions were made on the Phase I Report for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the report which includes the Pilot study implementation strategy and schedule for Phase II, were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

1. Workshop Schedule

The Lao side requested that the second workshop would be postponed until the middle of November in order to elaborate on the possibility for wider range of participants. The JICA Study Team agreed to this request.

2. Design Report Submission

The Lao side agreed to complete and submit the design reports for all of the pilot study schemes by the beginning of November 1999.

3. Assignment Confirmation

Both sides confirmed that the pilot study manning program prepared by Nam Saat is appropriate for the pilot study activity requirements of this study. The Lao side agreed to abide by the schedule for manning assignment described in this program. Furthermore, both sides consented that the pilot study activities will be initiated by the Lao side through supervision by the assigned personnel with emphasis on village participation in line with the Sector Strategy.

4. Confirmation of Village Contribution

Both sides agreed that the level of contribution from the village needs to be confirmed upon community dialogue using demand responsive approach in consideration of their willingness-to-pay in relation to their ability-to-pay.

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LIST OF ATTENDANTS

Ministry of Health

Department of Hygiene and Prevention

Dr. Phitthanousone CHOUMMANIVONG

Deputy Chief of Environment Health

Division

Director

Deputy Director

Chief Technical Advisor

Chief of Water Supply Division

Deputy Chief of Water Supply Division Deputy Chief of Environmental Health

National Center for Environmental Health and Water Supply (Nam Saat)

Dr. Nouanta MANIPHOUSAY

Dr. Vannareth THAMAVONGSA

Mr. Kanna BARAN

Mr. Kong Kham MIBOUM

Dr. Keo Oudom NAMSENA

Dr. Bouakeo SUVANTHONG

Division

Vientiane Provincial Nam Saat

Dr. Khamphiane VANMANY

Chief

UNDP-World Bank Water and Sanitation Program

Mr. Johan ARVLING

Country Officer

UNICEF

Ms. Boel Cecilia NYBERG

Assistant Project Officer, Water and

Environmental Sanitation

JICA Headquarters

Dr. Yuji MARUO

Mr. Yasumichi ARAKI

Leader of JICA Advisory Team

Staff

JICA Study Team

Mr. Shoji FUJII

Ms. Noriyo AOKI

Ms. Kiyoko TAKAMIZAWA

Team Leader

Member

Member

JICA Senior Volunteer

Mr. Makoto SATO.

Senior Volunteer

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1

ON

PROGRESS REPORT (2)

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, March 14, 2000

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health

and Water Supply (Nam Saat)

Ministry of Health

Mr. Shoji FUJII Team Leader JICA Study Team Discussions were made on the Progress Report (2) for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the report which includes the study activities of Phase II, were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

1. Preparations for Second Monitoring

Both sides confirmed that a second monitoring survey would be conducted in Phase III. The Lao side consented to take initiative to make preparations for the survey with proper manning assignment and appropriate scheduling so that the second monitoring can be held in June 2000. Therefore, the Lao side will submit the plan before the beginning of May 2000 to the JICA Study Team.

2. Continuation of Monitoring

The JICA Study Team strongly recommended continuing the monitoring activities even after completion of this Study on a periodic basis to comprehend the middle to long-term effects of water supply and sanitation. The Lao side will request the Lao government to prepare annual budgets for this purpose.

3. Design Report Submission

The Lao side agreed to complete and submit the design reports for the remaining non-pilot villages by the end of July 2000 in order to incorporate these villages into the development plan of the target area. Both sides agreed that if these design reports are not submitted, these villages will not be included in the development plan.

ON

PHASE II REPORT

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF PUBLIC HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, 2 June 2000

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and Water Supply (Nam Saat)

Ministry of Public Health

Mr. Shoji FUJII Team Leader JICA Study Team Discussions were made on the Phase II Report for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the report were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

1. Second Monitoring Survey

The Lao side will make every effort to complete the second monitoring survey for the pilot study villages by the middle of July 2000. Furthermore, since monitoring should be done periodically on a long-term basis, the JICA Study Team strongly recommends persuading the central government to allocate the necessary budget for this purpose.

2. Sanitation and Hygiene Promotion

The Lao side will make every effort to complete the sanitation and hygiene promotion activities for Phase III by the end of July 2000. These promotion activities can be included in the monitoring activities mentioned above.

3. Implementation of Villages not selected for Pilot Study

Nam Saat will consider the implementation possibilities for the villages which were not selected for the Pilot Study. The procedures for implementation of the remaining villages will be made as soon as the implementing method is decided.

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF PUBLIC HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, 7 August, 2000

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and Water Supply (Nam Saat)

Ministry of Public Health

Mr. Shoji FUJII Team Leader JICA Study Team

Witnessed by

Mr. Makoto AOKI

Resident Representative

ЛСА Laos Office

Discussions were made for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic (Refer to Annex 2 for the details of attendants). The main issues discussed are the following:

- The Laotian side requested the Japanese side to provide the assistance in the implementation of the "Pilot Study Extension," or "PSE," which would install clean water supply systems and sanitation facilities for some of the villages that were not covered by the original pilot study. The Team promised to convey the request to the JICA Headquarter that would finalize the decision of the PSE's implementation.
- 2 Both Laotian and Japanese sides agreed that the justifications of the PSE are as follows. First, PSE's implementation is expected to promote the technology transfer in the wider area. Second, efforts should be made to reduce the discrepancies in the coverage of the clean water supply and sanitation facilities among the targeted villages.
- 3 Both sides agreed that, upon the realization of the PSE, the targeted villages would be the ones shown in ANNEX 1.
- Both sides agreed that, upon the realization of the PSE, the C/P agencies would assign the staff as the facilitators and trainers to initiate the implementation and promote the villagers' participation.
- Both sides agreed that the submission of the progress report (3) would be shifted from August to October, depending on the PSE's implementation which would start in late October, and consequently that the Study would come to an end in March 2001 after the submissions of the draft final report and final report.



The Study on Rural Water Supply and Sanitation Improvement in North-West Region in Lao PDR List of Candidate Villages for Pilot Study Extension

No.	Village Name	Water	No.
		Scheme	Latrine
	Houayxai Dist.	rict, Bokeo Provid	nce
H-2	Phokham	GFS	40
H-4	Hoai Makeo	Dug Well	0
H-5	Done Phao	GFS	0
H-8	Namphou	GFS	40
H-26	Phibounthong		4
H-27	Houakhoua	GFS	26
H-28	Pakhaotay	1 Scheme,	0
H-29	Thongbia	5 Villages	0
H-30	Viengmay		20
Vie	ngphoukha Distric	t, Luang Namtha	a Province
V-1	Nam Mai	GFS	28
	Long District, Lu	ang Namtha Pro	vince
L-6	Nong Kham	GFS	35
L-7	Nam Bak	GFS	48
L-8	Luang Phokham	1 Scheme,	0
L-9	Phaya Luang	4 Villages	35
L-14	Khok Hin	+ Villages	21
L-11	Nam Ma	Dug Well	0
L-23	Kang	GFS	13
	17 Villages	10 Schemes	11 Latrine-
		-8 GFS	Villages
		-2 Dug Well	



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Annex 2

List of Attendants for Discussion on Pilot Study Extension

National Center for Environmental Health and Water Supply (Nam Saat)

Dr. Nouanta MANIPHOUSAY

Director

Dr. Soutsakhone CHANTHAPHONE

Deputy Director

Mr. Kanna BARAN

Chief Technical Advisor

Dr. Keo Oudom NAMSENA

Deputy Chief, Water Supply Division

Dr. Khonsavanh MALIBYPHIT

Hygiene Promotion Section, Environmental Health

Division

ЛСА

Mr. Makoto AOKI

Resident Representative of JICA Laos Office

Mr. Kenji INOUE

Study Planning

JICA Study Team

Mr. Shoji FUJII

Team Leader

Mr. Akihiko UCHIYAMA

Team Member



ON

PROGRESS REPORT (3)

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF PUBLIC HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Vientiane, 18 October 2000

Dr. Nouanta MANIPHOUSAY

Director

National Center for Environmental Health and Water Supply (Nam Saat)

Ministry of Public Health

Mr. Shoji FUJII Team Leader JICA Study Team Discussions were made on the Progress Report (3) for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic, and the contents of the report were agreed upon, in principle. Additionally, the following points were mutually agreed upon.

1. Implementation of Pilot Study Extension

The Lao side agreed to take initiatives to implement the pilot study extension, and will make every effort to complete the construction works by the end of January 2001. A hand-over ceremony will be scheduled tentatively on 9th or 10th February 2001.

2. Follow-up Activities of Province and District

The operation and maintenance of the completed facilities in the Pilot Study villages will be the responsibility of the beneficiary villages. However, each Province and District Nam Saat will be responsible for the following activities.

- (1) Repairs beyond the capability of the villagers
- (2) Allocation of basic tools to the villages for minor repairs
- (3) Periodic patrol of the villages to inspect, monitor and advice on proper operation and maintenance and required modifications
- (4) Further education on committee functioning, fee collection, bookkeeping and repairs
- (5) Continuous promotion on sanitation and hygiene
- (6) Other interventions necessary for proper functioning of the facilities Therefore, the Lao side will prepare the necessary budget for the above activities.

3. Workshop (3)

Both sides agreed to hold the Workshop (3) tentatively on 6th or 7th February 2001 at Vientiane through the full initiative of Nam Saat. This workshop will explain the results of the present study to exchange views with the participants.

4. Request for Implementation of Remaining Villages

The Lao side requests implementation of the study target villages remaining after completion of the previous pilot studies. The request will be made by the end of October 2000.

5. Consideration of Other Provinces

The original request for this present study included five Provinces. Since only two Provinces were studied this time, the Lao side now requests consideration of the other three Provinces.

ON

DRAFT FINAL REPORT

FOR

THE STUDY

ON

RURAL WATER SUPPLY AND SANITATION IMPROVEMENT

IN

NORTH-WEST REGION

IN

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

THE MINISTRY OF PUBLIC HEALTH

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

รายายละอาการ (สายายละอาการ (สายายละ (

Dr. Nouanta MANIPHOUSAY
Director
National Center for Environmental
Health and Water Supply (Nam Saat)
Ministry of Public Health



Mrs. Chanthanome MANOTHAM Chief of Cabinet Ministry of Health Vientiane, 2 February 2001

Mr. Shoji FUJII Team Leader JICA Study Team JICA submitted the Draft Final Report (hereinafter referred to as DF/R) for the Study on Rural Water Supply and Sanitation Improvement in North-West Region in the Lao People's Democratic Republic that has been conducted in accordance with the Scope of Work agreed and signed on 21 October 1998. The Lao side has accepted the DF/R in principle.

The main points of discussion made on this report are as follows:

Comments on the Draft Final Report

Both sides agreed that the Lao side would send the comments on the contents of the DF/R to JiCA, if any, before the middle of February 2001, and that any comments received after the deadline would not be reflected in the Final Report.

2. Follow-up Activities for the Pilot Study Extension

Both Japanese and Lao sides have confirmed that the relevant technology transfer has been successfully carried out. The Lao side thus promised the Japanese side that it would alone conduct the monitoring and sanitation promotion of the Pilot Study Extension villages even after the end of the Study. These follow-up activities would include supervision of operation and maintenance, periodic monitoring on behavioral changes of the villagers, and continuous hygiene promotion at the villages. The Lao side stated that it would make every effort to allocate the necessary budget for this purpose.

3. Appropriate Handling of Study Equipment

Both Japanese and Lao sides confirmed that the Lao side would make every effort to properly manage and maintain the Study equipment that would be donated from the JICA Headquarters when all of the Study activities would come to an end.

LIST OF ATTENDANTS for Discussion on Draft Final Report

Ministry of Health

Mrs. Chanthanome Manotham

Chief of Cabinet

Director

Nam Saat Central

Dr. Nouanta Maniphousay

Dr. Thongma Ongkeobounmy Deputy Director
Dr. Soutsakhone Chanthaphone Deputy Director

Mr. Kanna Baran Chief Technical Adviser

Dr. Soulinthone Inthavong Chief Administration Division

Dr. Keo Oudom Namsena Deputy Chief of Water Supply Division

Dr. Bouakeo Suvanthong Chief of Environmental Health Division

Ms. Thatsany Manuevong Hygiene Promotion Section,
Environmental Health Division

JICA Study Team

Mr. Shoji Fujii

Mr. Akihiko Uchiyama

Mr. Izumi Atsuta

Mr. Sybounheung Phandanouvong

Team Leader

Team Member

Team Member

Team Member



ບົດບັນທຶກກອງປະຊຸ່ມ

ໃນຫົວຂໍ້

ຮ່າງບົດລາຍງານສຸດທ້າຍ

ຂອງ

ໂຄງການຄົ້ນຄວ້າ

ກຽວກັບ

ການຈັດຫານ້ຳສະອາດ ແລະ ອານາໄມສິ່ງແວດລ້ອມ

ໃນເຂດ

ພາກຕາເວັນຕົກຊ່ຽງເໜືອ

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ສາຫາລະນະລັດ ປະຊາທິປະໄຕ ປະຊາຊົນ ລາວ ໂດຍການ ຕົກລົງເຫັນດີກັນ ລະຫວ່າງ

ກະຊວງ ສາຫາລະນະສຸກ

ແລະ

ອົງການຮ່ວມມືສາກົນຂອງຍີ່ປຸ່ນ (JICA)

ທີ່ ວຽງຈັນ, ວັນທີ 2 ກຸມພາ 2001

ດຣ. ນວນຕາ ມານີພູໄຊ

ດຣ. ນວນຕາ ມານີພູໄຊ ຜູ້ອຳນວຍການ ສຸນກາງນ້ຳສະອາດ ແລະ ອານາໄມ ສິ່ງແວດລ້ອມ ແຫ່ງຊາດ

ກະຊວງ ສາຫາລະນະສຸກ

A105121

ທ່ານ ນາງ ຈີນທະໜອມ ມາ ໃນທຳ ຫົວໜ້າຫ້ອງການ

ກະຊວງ ສາທາລະນະສຸກ

ທ່ານ ໂສຈີ ຜູ້ຈີ

ຫົວໜ້າຄະນະ

ຄະນະຄັ້ນຄວ້າ ອົງການຮ່ວມມືຂອງຍີ່ປຸ່ນ

(JICA)

ອົງການຮ່ວມມືສາກິນຂອງຍີ່ປຸ່ນ (JICA) ໄດ້ສິ່ງຮ່າງບົດລາຍງານສຸດທ້າຍ (ຊຶ່ງຕໍ່ໄປເອີ້ນວ່າ DF/R) ສຳລັບ ໂຄງການຄົ້ນຄວ້າ ຈັດຫານ້ຳສະອາດ ແລະ ອານາໄມ ສິ່ງແວດລ້ອມ ໃນເຂດ ພາກຕາເວັນຕົກ ຊ່ຽງເໜືອ ຂອງ ສາທາລະນະລັດ ປະຊາທິປະໄຕ ປະຊາຊົນ ລາວ ຊຶ່ງໄດ້ດຳເນີນການ ພາຍໃຕ້ ຂອບເຂດຂອງວຽກງານ ທີ່ໄດ້ຕົກລົງ ແລະ ເຊັນກັນ ໃນວັນທີ 21 ຕຸລາ 1998. ທາງດ້ານ ຫຼັກການແລ້ວ ຝ່າຍລາວ ສາມາດ ຮັບເອົາ ຮ່າງບົດລາຍງານສຸດທ້າຍໄດ້ (DF/R).

ຈຸດຕົ້ນຕໍ່ ຂອງການປຶກສາຫາລື ທີ່ຢູ່ໃນບົດລາຍງານນັ້ນ ມີດັ່ງຕໍ່ໄປນີ້:

າເບ 1) ຄຳເຫັນກ່ຽວກັບ ຮ່າງບົດງານສຸດທ້າຍ

ທັງສອງຝ່າຍໄດ້ຕົກລົງກັນວ່າ ຫາກມີ ຄຳເຫັນແນວໃດ, ຝ່າຍລາວຈະສົ່ງຄຳເຫັນຂອງຕົນ ກ່ຽວກັບ ຮ່າງບົດ ລາຍງານສຸດທ້າຍ ຕໍ່ ອົງການຮ່ວມມືສາກົນຂອງຍີ່ປຸ່ນ (JICA) ກ່ອນກາງເດືອນ ກຸມພາ 2001, ແຕ່ຖ້າຫາກມີຄຳເຫັນ ໃດໆ ທີ່ຈະໄດ້ຮັບຫຼັງກຳນົດດັ່ງກ່າວ ແມ່ນຈະບໍ່ໄດ້ ເອົາເຂົ້າໃນ ບົດລາຍງານສຸດທ້າຍ.

2) ການຕິດຕາມ ການເຄື່ອນໄຫວ ຕໍ່ມາ ສຳລັບການສືບຕໍ່ໂຄງການຄົ້ນຄວ້າທົດລອງ

ທັງສອງຝ່າຍລາວກັບຍີ່ປຸນໄດ້ຢືນຢັນວ່າ ການຖ່າຍທອດ ເຕັກໃນ ໂລຍີ ທີ່ກ່ຽວຂ້ອງ ກັບຂະແໜ່ງການ ແມ່ນໄດ້ ຮັບການປະຕິບັດ ຢ່າງສຳເລັດຜົນ. ຝ່າຍລາວໄດ້ ຮັບປາກວ່າ ຝ່າຍລາວ ຈະດຳເນີນ ດ້ວຍຕົນເອງ ແຜ່ນການ ສິ່ງເສີມ ການລົງຕິດຕາມ ແລະ ວຽກງານ ສຸກຂາພິບານ ຂອງບັນດາບ້ານ ທີ່ຈະສືບຕໍ່ໂຄງການຄັ້ນຄວ້າທົດລອງ ເຖິງແມ່ນວ່າ ໂຄງການ ຈະສີ້ນສຸດແລ້ວກໍ່ຕາມ. ການຕິດຕາມການເຄື່ອນໄຫວນີ້ ຈະລວມມີ ການກວດກາ ການນຳໃຊ້ ແລະ ການປົກ ປັກ ຮັກສາ, ການຕິດຕາມຢ່າງເປັນໄລຍະ ກ່ຽວກັບການ ປ່ຽນແປງ ພຶດຕິກຳ ຂອງຊາວບ້ານ ແລະ ສືບຕໍ່ ແຜ່ນການ ສິ່ງ ເສີມ ການຮັກສາອານາໄມ ຢູ່ໃນບ້ານເຫຼົ່ານັ້ນ. ຝ່າຍລາວໄດ້ແຈ້ງວ່າ ຈະສຸມຄວາມພະຍາຍາມ ຂອງຕົນ ເພື່ອນຳໃຊ້ ງົບປະມານ ທີ່ຈຳເປັນ ເຂົ້າໃນການເຄື່ອນໄຫວດັ່ງກ່າວ.

3) ການນຳໃຊ້ ອຸປະກອນ ຄົ້ນຄວ້າ ທີ່ຖືກຕ້ອງ

ທັງຝ່າຍ ລາວ ແລະ ຍີ່ປຸ່ນໄດ້ ຢືນຢັນວ່າ ທາງຝ່າຍລາວ ຈະໃຊ້ຄວາມ ພະຍາຍາມ ເພື່ອຄຸ້ມຄອງ ອຸປະກອນ ຄົ້ນ ຄວ້າຢ່າງ ຖືກວິທີ ເຊິ່ງອຸປະກອນ ເຫຼົ່ານັ້ນ ແມ່ນຫ້ອງການໃຫຍ່ ຂອງອົງການຮ່ວມມືສາກິນຂອງຍີ່ປຸ່ນ (JICA) ເປັນຜູ້ ມອບໃຫ້ ພາຍຫຼັງທີ່ການຄົ້ນຄວ້າ ດັ່ງກ່າວສຳເລັດລົງ.

ລາຍຊື່ຜູ້ເຂົ້າຮ່ວມປະຊຸ່ມ

ເພື່ອສົນທະນາ ຮ່າງບົດລາຍງານສຸດທ້າຍ

ກະຊວງ ສາຫາລະນະສກ

ທ່ານ ນາງ ຈັນທະໜອມ ມາໃນທຳ

ຫົວໜ້າຫ້ອງການ

ອົງການນ້ຳສະອາດແຫ່ງຊາດ

ດຣ. ນວນຕາ ມານີພູໄຊ

ດຣ. ທອງມາ ອົງແກ້ວບຸນມີ

ດຣ. ສຸກສາຄອນ ຈັນທະພອນ

ທ່ານ ກັນນາ ບາຣັນ

ດຣ. ສຸລີນທອນ ອີນທະວົງ

ດຣ. ແກ້ວອຸດົມ ນໍາເສນາ

ດຣ. ບິວແກ້ວ ສຸວັນທອງ

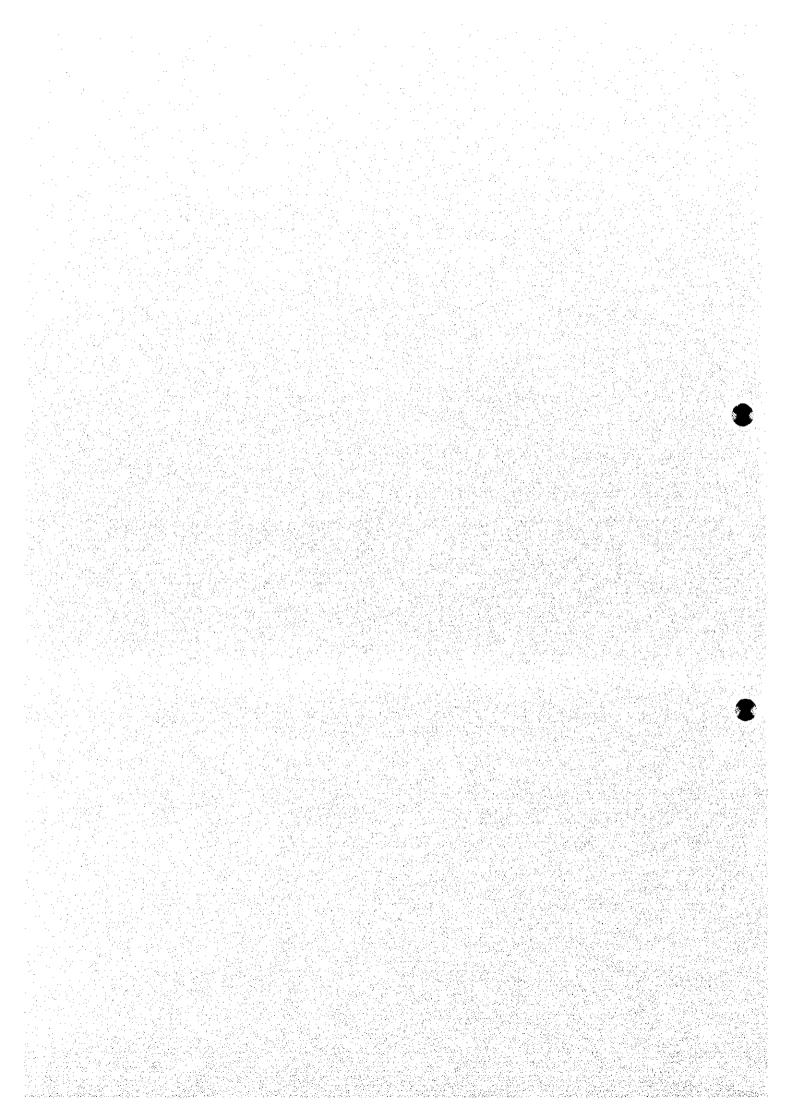
ນ. ທັດສະນີ ມາຫຍຸຍວົງ

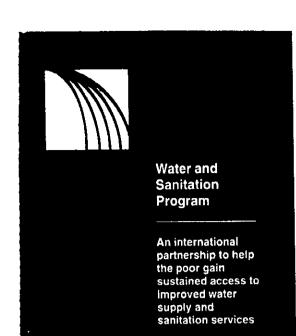
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ຄະນະຄັ້ນຄວ້າຂອງອົງການ (JICA)

ທານ ໂສຈີ ພູ່ຈີ ທານ ອາກີຣິໂກະ ອູຈີຢາມາ ທານ ອີຊຸນິ ອັດຊືຕະ ຫົວໜ້າ ຄະນະ ສະມາຊິກ ສະມາຊິກ ສະມາຊິກ

11. Related Literature





SANITATION & HYGIENE PROMOTION IN LAO PDR

Learning from the National Water Supply & Environmental Health Programme

East Asia and Pacific Region



Field Note

Prepared by:

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March 2000

NTRODUCTION

In Lao PDR, as in many other countries, the provision of safe and reliable water supply and appropriate sanitation services, based on community-focused and sustainable approaches, remains a challenge.

One of the main focus areas in Lao PDR's National Water Supply and Environmental Health Programme¹ (NWSEHP) is sanitation and hygiene promotion. To this end, participatory hygiene analysis has been the entry point for initiating a key strategic principle - the community dialogue process.

Following a brief description of the programme background, this Learning Note describes the step-wise approach to community dialogue, with an emphasis on hygiene promotion initiatives. It defines the lessons learned thus far, based on field experience from operationalising the Lao PDR Rural Water Supply and Sanitation (RWSS) Sector Strategy in 7 selected 'spearhead' provinces, and on the nationally implemented School Sanitation and Hygiene program.

Lao PDR at a Glance	
Total population	4.6 million
Land area	236,800 km²
Rural/urban population %	85 / 15
Number of Provinces, excluding	
Vientiane municipality and	16
Saysomboune Special Zone	
Municipalities/Special Zone	2
Total number of Muangs (districts)	138
Number of ethnic groups:	> 60
Lao Loum/lowland - 60%,	
Lao Theung/mid-level - 30% and	
Lao Soung/highland - 10%	
Access to water supply-rural and urban	< 51 %
Access to sanitation - rural and urban	< 32 %
Adult literacy rate (male/female) %	58 (64/42)
Infant mortality rate (IMR), per 1,000	113
live births	
Life expectancy at birth	51.3
Main causes of morbidity/mortality	Malaria, diarrhoea, respiratory infections
Source: The Laos Experience: Indige Replicable: WSP-	nous, Sustainable, EAP, March 1998

PAST APPROACHES, NEW BEGINNINGS

In the past², rural water supply and sanitation interventions mainly focused on locations with relatively easy access. The technology and level of services offered were limited, with little scope for community dialogue.

 1 As set out in the National Rural Water Supply and Sanitation Sector Strategy

Poor communities were used to decisions being handed down to them by projects. Their input was limited to the provision of labor and local materials. The traditional top-down approach, with minimum community participation in decision-making, has proven to be the source of un-sustainable investments, in Lao PDR and elsewhere.

This motivated the lead sector agency Nam Saat³, to successfully launch the Sector Strategy and Guideline National Framework in November 1997. The government prepared the strategy with technical support from the World Bank's Water and Sanitation Program for East Asia and Pacific (WSP-EAP), UNICEF and other sector partners. The strategy was the result of a 30-month policy reform and institutional strengthening process supported by Swedish International Development Cooperation Agency (Sida)⁴.

With the Strategy and the National Guidelines in place, the NWSEHP was launched to ensure a smooth transition from the target or coverage-oriented approach to a community-oriented process. Sida, the World Bank, UNICEF and WSP-EAP have subsequently supported a number of projects in line with the new sector strategy.

What is especially encouraging, is that newer donors in the sector such as JICA and AusAID, as well as some international NGOs, are increasingly following the Lao PDR RWSS sector strategy.

TURNING STRATEGIC PRINCIPLES INTO PRACTICE ON THE GROUND

The demand responsive approach forms the basis of the new community focused rural water supply, sanitation and hygiene awareness activities. Communities are involved from the very early stages of the project through participatory hygiene analysis in:

- establishing their needs (and building demand);
- selecting the right technology option for water supply and sanitation improvements (informed choice), based on their ability & willingness to pay for these services:
- the physical implementation of the interventions;
- addressing the operation and maintenance needs for water supply and/or sanitation facilities.

To promote the demand responsive approach, Nam Saat developed the "12 Steps Participatory Approach for Applying the Lao PDR RWSS Sector Strategic Principles". This has proven to be a valuable tool for

² In 1996, service coverage for rural water supply and sanitation reached 51% and 20 % respectively during Phase I of NWSEHP.

³ Literally meaning 'clean water'

For further information read "Indigenous, Sustainable, Replicable – Lessons Learned", RWSG-EAP March 1998, website: http://www.wsp.org

Nam Saat at central, provincial and district levels in promoting a systematic approach in each target village in the spearhead provinces where the RWSS program is implemented. Increasingly other supporting donors and NGOs in other provinces are applying the "12 Steps Participatory Approach" too.

Sanitation and Hygiene promotion starts in the Village Level Demand Assessment phase when communities, with facilitation from trained members of the Hygiene Promotion Team, identify hygiene behavior patterns and changes by themselves. Sanitation and hygiene awareness activities are then integrated in a package of improved services at the household, community and/or school level.

Some of the key principles relating to sanitation and hygiene promotion in the Lao PDR RWSS sector strategy

Emphasis on behavioral change leading to improved hygiene as the major intervention supported by technically sound, feasible and affordable water and sanitation options.

New impetus to a program of school sanitation, water and hygiene, benefiting both pupils as future citizens and partners, and the surrounding communities.

These principles have not only been integrated in the "12 Steps Participatory Approach to apply the Lao PDR Sector Strategy", but they also form an important part of the community dialogue process.

The 12-Steps Participatory Approach

Provincial/District Level Activities:

- 1. Desk research
- 2. Verification of data and partnership linking
- 3. Consultation Workshop
- Establishing the Provincial and District Coordination Units (PCU/DCU)^s
- 5. Training of Field teams
- Project Implementation Planning

Local Level Activities:

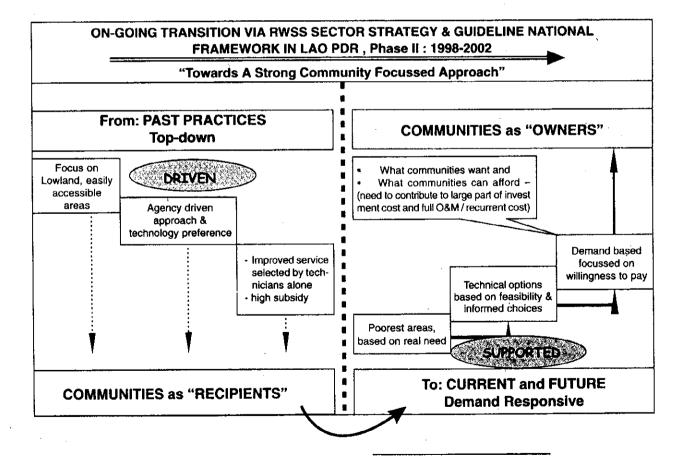
- 7. Implementation of Capacity Building Plan
- 8. Conduct Village Level Demand Assessment
- 9. Development of Village Action Plan
- 10. Approval/agreements

Village Level Implementation:

- 11. Implementation of Village Action Plan
- 12. Monitoring, Evaluation and Learning/Feedback

Notes:

- Hygiene Awareness Promotion activities continue in steps 7-12
- Monitoring, Evaluation and Learning/Feedback actually starts from the very first step.



PCU/DCU means multi agency Provincial and District Coordination Units respectively.

SANITATION & HYGIENE PROMOTION— A VITAL STEP IN THE LAO PDR RWSS PROGRAM

A set of thirteen participatory learning activities⁶ form the basis of the Community Dialogue⁷ process for participatory hygiene assessments, and the assessment of demand for water supply and sanitation services.

Community Dialogue Activities

- a) Community history profiling
- b) Village mapping
- Wealth classification: criteria for identifying the poorest communities
- d) Gender analysis of tasks/roles: household and community level
- Gender analysis of control of resources: household and community level
- f) Community participation profile in past development projects
- g) Prioritising of problems
- h) Health awareness assessment
- Hygiene awareness: rationale of existing hygiene behaviours
- j) People's perceptions of routes of faecal-oral contamination in the community
- People's perceptions of ways to block contamination routes
- Water supply ladder- existing water supply systems & presentation of options with increasing levels of service and cost
- m) Sanitation ladder– existing defecation practices and presentation of options with increasing levels of service and cost

The basic fundamentals applied in the development of effective sanitation and hygiene promotion tools as presented in the Lao PDR Sector Strategy are:

Assessing demand

Participatory hygiene analysis is an *entry-point* for community dialogue to assess demand (or willingness to share resources) for Hygiene Awareness and SAnitation and Water Supply (HASWAS) interventions.

Sanitation and hygiene promotion takes an important place in the community dialogue process. Members of the Hygiene Promotion Team facilitate the community dialogue process, using mainly pictorial materials. Separate dialogues with men and women encourage women's participation to ensure that their voice is heard too. Villagers themselves map out the local hygiene practices and the dialogue continues with a discussion on preventive measures, using the water supply and

sanitation ladder as tools. Since the start of this process about 2 years ago, this process of community dialogue has been completed in 167 villages in 8 different provinces. These provinces represent various geographical locations in Lao PDR (from Phongsali - the most northern province to Sekong, - one of the most southern and poorest provinces).

Supporting Donor	Province	Number o Disctricts	f / Villages Villages
Sida	Houaphan	2	20
Sida	Sekong	2	5
Sida	Bolikhamxai	2	10
NB IDA	Oudomxai	2	10
WB IDA	Phongsali	2	10
IICA	Bokeo	2	48
VB IDA	Luang	3	11
IICA	Namtha	2	33
AusAID	Sayabouri	3	20
TOTAL	8	20	167

Responding to demand

Where there is demand for improved services, promotion of hygiene awareness starts at the individual as well as household level. The promotion of latrines starts at household level with the introduction and discussion of various technically suitable sanitation options. Trained village volunteers, the village water and sanitation committee and teachers present these options in the form of a sanitation ladder. Primary schools and clinics are also targeted for sanitation and hygiene activities.

Generating demand

If there is no immediate demand for improvement of water supply and sanitation services in a particular village, the process is continued with only hygiene promotion activities by the village hygiene team, with monitoring and periodic support from the district hygiene promotion team. This raises the community awareness of health and hygiene issues. Hygiene promotion is continued till such time as the community expresses demand for improved services.

Tools and Methodologies for Sanitation and Hygiene Promotion

Some of the successful tools and methodologies that have been developed include the Sanitation Ladder, innovation in Sanitation and Hygiene Promotion, and School Sanitation and Hygiene Promotion.

⁶ Drawn from Participatory Rural Appraisal (PRA) and Participatory Hygiene And Sanitation Transformation (PHAST)

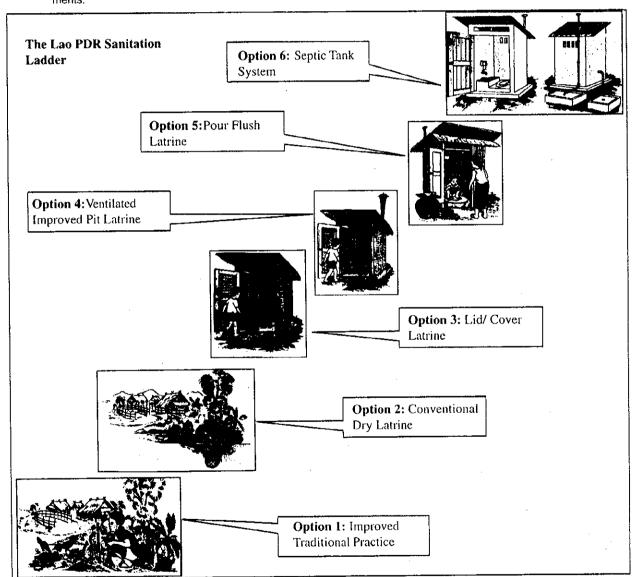
⁷ For further information read "Demand, Informed Choice, Behavior Change – Lessons Learned", RWSG-EAP, March 1998; website: http://www.wsp.org

The Lao PDR Sanitation Ladder

The Sanitation Ladder defines a number of technology options for sanitation improvements in rural communities. Using the sanitation ladder as a basis, Nam Saat has further developed the Information Kit for Community Dialogue on Rural Sanitation for use at community level. This summarizes various technically feasible options. Each option includes:

- a brief explanation of the main characteristics, using pictures and graphs;
- (ii) the advantages and disadvantages;
- (iii) the materials required for the construction external and locally available materials; and
- (iv) an estimation of the initial investment cost, andoperation and maintenance cost and requirements.

These options are presented to individuals and households through the community dialogue process. This facilitates discussion, and enables communities to make an informed and well-considered selection of the best technical solution to meet their own requirements, resources and local conditions. Apart from the Information Kit for Community Dialogue on Rural Sanitation, there is also an Informed Choice Catalogue for Rural Sanitation, which is a more comprehensive manual for use by field level facilitators. More detailed construction manuals prepared for each of the technically feasible options, for use by district/provincial level technicians, complete the series.



An Example of Innovation in Sanitation and Hygiene Promotion

A provincial team, supported by JICA advisors, started the pilot water supply and sanitation scheme in Bokeo and Luang Namtha provinces in the north-west of Lao PDR. They used the community dialogue approach to develop a 'show- case village'. As part of the community dialogue process and to add innovation to the sanitation and hygiene promotion process, this team used multimedia equipment to facilitate the community discussion and raise hygiene awareness. They used digital cameras to capture 'a day in the life' images of village activities in some of the target villages. By afternoon, the images were prepared and ready for use in discussion with the community. The team then used these images to highlight the existing positive and negative behavior patterns. They then discussed possible interventions for changing these behavior, such as improvement of the water supply and/or sanitation situation.

Phase II of JICA's north-west Rural Water Supply and Sanitation Study

..the study on Improvement of RWSS in northwest region of Lao PDR is now in Phase II of operation...the study is based on the Agreement for a pilot study signed between Nam Saat and JICA in October 1999.

In the pilot study phase, 16 water schemes and latrines at 12 villages will be constructed through contributions of the villagers in labor, materials and cash.

The villagers living in remote areas of Luang Namtha and Bokeo provinces who are mostly ethnic minorities are becoming aware of the need for sanitation and proper management through the community dialogues and guidance associated with the pilot study.

JICA said that it will closely monitor behavioral changes and social development of these villagers. The close collaboration between Nam Saat and the villagers was also becoming more apparent through these activities.

Sections from an article in the local newspaper "The Vientiane Times" of February 22-24, 2000.

School Sanitation and Hygiene Promotion

The Primary Schools sub-project also applies the Lao PDR RWSS Sector Strategy Principles. Supported by UNICEF, and led by Nam Saat, the Ministry of Education and several pilot communities, have successfully developed Information-Education-Communication Tools suitable for primary school students in Lao PDR. This Field Kit for Hygiene Promotion at Schools consists of a series of pictorial information sheets, and three stories. The approach followed is similar to Participatory Hygiene And Sanitation Transformation (PHAST) and Participatory Rural Appraisal (PRA) techniques.

A core group of four Central Nam Saat staff trained 19

other Nam Saat staff from 11 Provinces in thfirst national Training of Trainers (TOT) workshop Hygiene Promotion towards the end of 1999. The new 'trainers' will go on to train 25 teachers of primary schools, where water supply and sanitation facilities have been provided.



THE CAPACITY BUILDING CHALLENGE

The shift to a Demand Responsive Approach poses a challenge within Nam Saat, in terms of staff capacity at the central, provincial, district and community level. This requires preparation and adaptation of various training and promotional materials, as part of the on-going learning-by-doing approach. Nam Saat has therefore initiated the preparation of a series of Training Manuals/ Users Guides on Hygiene Awareness, Community Based Dialogue Planning, Sanitation Improvements, Community Based Financing and Management and Water Supply Improvements. Each manual consists of a series of publications for use at the community level, for Field level Facilitators and for District/Provincial Level Support and Management staff.

Training in community dialogue processes and management training has been provided to members of the Provincial Coordination Units and District Coordination Units (PCU/DCU)⁸ in the spearhead provinces. Community Dialogue training is planned in the remaining 11 provinces. These efforts will have to be continued to further strengthen Nam Saat's capacity at all levels to effectively facilitate the demand responsive approach and the community dialogue process.

⁸ PCU and DCU consists of representatives from Nam Saat, Lao Women's Union, Youth Union, Rural Development Committee, Department of Public Health, Department of Education and other line agencies.

THE RESULTS SO FAR

In line with the sector strategy, Nam Saat continues to actively promote 'learning-by-doing and feed back' as one of its key principles, with a strong emphasis on a nationally driven 'step-by-step' approach. Although the transition from target driven top down approach to a stronger community focused demand responsive approach is still in its early stages, and field level implementation is ongoing in the spearhead provinces, the results so far are encouraging.

The spin-off effect to other provinces is already noticeable. The participatory hygiene analysis as an entry point in the community dialogue process progressively finds wider application from initially 7 selected 'spearhead' provinces, into the remaining 11 provinces in Lao PDR. On request from these provinces, Nam Saat has prepared community dialogue training to actively involve these provinces in the strategy implementation process, earlier than anticipated.

The results are encouraging not just to Nam Saat, but also to the supporting partners and external support agencies, from the initial supporting partners (Sida, WSP-EAP, UNICEF and the World Bank) to newer RWSS donors such as JICA and AusAID.



LESSONS LEARNED

Although the implementation of the national sector strategy is still in its early stages, a number of key lessons have emerged from the selected Spearhead Provinces, and from the national Primary School Sanitation and Hygiene Program:

- Participatory Hygiene Analysis with a strong community focus is recognised as a successful approach for achieving sustainable changes in sanitation and hygiene-related behaviors. With the sector strategy in hand, other partners and donors are now using the community dialogue approach in their program support work.
- The community dialogue process provides a framework for district/provincial and village level facilitators to sequence the critical steps necessary to raise a community's awareness and to assess its real needs and willingness to contribute.
- The failure of past 'hygiene educational' approaches shows that communication for hygiene promotion needs more than just better knowledge on the part of the communicator. It requires improvement of the communication skills through on-going capacity development activities, supported by an appropriate set of training manuals and guided practice.
- Behavioral change does not happen by just 'providing information that is missing and describing exactly what people must do'.
- The greatest challenge always remains in identifying the 2 or 3 key behavioural changes to most effectively promote in each community, based on locally prevalent routes of disease transmission, identified and recognised by the community themselves.

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Nam Saat

LAO PEOPLE'S DEMOCRATIC REPUBLIC

Peace, Independence, Democracy, Unity, Prosperity

National Water Supply and Environmental Health Programme Ministry of Health

STEPS TOWARDS BETTER GENDER BALANCE IN RURAL WATER SUPPLY AND SANITATION SECTOR IN LAO PDR

FROM STRATEGY INTO PRACTICE





A SITUATION REPORT



Vientiane, Lao PDR Final Version, January 2001 This Situation Report on Gender in Rural Water Supply and Sanitation Sector in Lao PDR is prepared by the National Centre for Environmental Health and Water Supply (Nam Saat) as part of its activities to implement the Annual Workplan for the year 1999-2000. This report tries to summarize some key achievements and developments in Lao PDR to promote more gender balanced approaches in the Rural Water Supply and Sanitation Programme.

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Photographs by Chander Badloe, Chong Kham and Dr. Izumi Atsuda.

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Introduction

During the 1990's the Lao People's Democratic Republic has made progress towards improving gender equity¹. Some of the key legal and practical steps that the Government has taken to provide a national framework for promotion of gender include:

- The new Lao Constitution from 1991 which guarantees equal rights for women and men.
- The Government's endorsement of "The Twelve Areas of Critical Concern" from the 1995 Beijing Declaration and the Platform for Action for the Advancement of Women of the International Conference on Women in Beijing². Some of the relevant areas of concerns are Women and Health, Women in Power and Decision-Making, Institutional Mechanisms for the Advancement of Women, Women and the Environment.
- The Government's and external support agencies (ESAs) emphasis on women's participation in national and local development efforts.
- Gradually, the appointment of more women into leadership positions in the Government and the National Revolutionary Party.

In line with these national progressive actions and the international experience related to gender promotion in water supply and sanitation projects, in 1997 the National Center for Environmental Health and Water Supply (commonly known as Nam Saat) incorporated the principles of gender equity and empowerment into its National Rural Water Supply and Sanitation Sector Strategy and Guideline National Framework (hereafter called the RWSS Strategy).

Nam Saat is the national government agency in the Ministry of Public Health responsible for hygiene promotion, water supply and sanitation in Lao PDR. Its primary local partners are the Ministry of Education, the Lao Women's Union (LWU), the Lao Youth Union (LYU), the Lao National Front for Reconstruction (NLSS), the Department of Rural Development (DRD) and other local partners.

This Gender Situation Report assesses Nam Saat's step-by-step actions to move gender equality and strategic principle into practice. Sections include brief overviews of gender development taken globally, in Lao PDR and within the Nam Saat programme. It then highlights Nam Saat's stance on gender improvements in community level activities and notes the ongoing challenges of changing daily personnel attitudes and actions within Nam Saat and its partner agencies. This report a lims to identify some of the lingering gaps in gender balance and gender sensitivity. Finally, this report shows how Nam Saat can incorporate gender-sensitive actions into its main activities, with allowed staff time and effort.

Gender Equity = giving equal opportunity to women and men in education, work and social enhancement.

² For more information, reference is made to "The 12 Areas of Critical Concern -The Beijing Platform for Action for the Advancement of Women", GRID Centre, LWU

Worldwide research shows that a country's economic development and well-being improves as gender equity rises. In other words, when women and men share equally the benefits and responsibilities as well as burdens of family life, development has a greater chance of being efficient, effective, sustainable and just.

In the past decades, research has shown that gender issues need to be addressed as they influence sustainability and effective use of water supply and These findings have gained sanitation services. global acceptance during international meetings, such as the International Drinking Water Supply and Sanitation Decade (1981-1990) and the Fourth World Conference on Women in Beijing in September 1995. Now that the critical, important and central role of women in the water supply and sanitation sector is widely recognized, these research findings have to be implemented in the field. About the same time, international consensus began to strategies for designing that implementing policies, programs and projects in water and sanitation were more successful when they used demand-driven, participatory approaches rather than traditional supply driven approaches. Some lessons from the experience gained over the last decade in terms of gender, water and sanitation are summarized in Box 13. A recent global study by the Water and Sanitation Program and the IRC International Water and Sanitation Centre produced

BOX 1: LESSONS FROM PROJECT EXPERIENCE ON GENDER, WATER AND SANITATION:

- Gender and the role of women is a central concern in water and sanitation
- 2. Specific, simple mechanisms must be created to ensure women's involvement
- 3. Gender analysis is integral to project identification and data collection
- 4. Attention to gender needs to start as early as possible
- 5. Ensuring both women's and men's participation improves project performance
- 6. A learning-by-doing approach is more gender-responsive than a blueprint approach which assumes that everything is known can be planned in advance
- 7. Projects are more effective when both women's and men's preferences about "hardware / choice of technology" are addressed
- Women and men promote project goals through both their traditional and nontraditional roles
- Non-governmental organizations and especially women's groups can facilitate a gender balanced approach
- 10. Gender-related indicators should be included when assessing project performance
- 11. Gender issues are important because they influence sustainability and effective use of facilities

empirical evidence that demand-responsive approaches that are gender-sensitive and poverty-targeted are significantly associated with services that are better sustained and more effectively used by user communities⁴.

Gender Development in Lao PDR in a Historic Perspective

In the mid-1990's, with persistent pressures from the National Revolutionary Party, the LWU and the Human Resource Development Committee and support from UNICEF, various ESAs and NGOs, public awareness and attitudes about *gender equity* in the Lao PDR began to change. As a result, many development programs are now actively striving for:

- Gender awareness to help people broaden their attitudes about what women and men are capable of learning and doing at work and at home.
- Gender sensitivity to understand and take action on the barriers which limit the roles and duties of women and sometimes men;

³ "Toolkit on Gender in Water and Sanitation", Gender Toolkit Series No. 2, The World Bank, 1996.

⁴ "Linking Sustainability with Demand, Gender and Poverty: A study in community-managed water supply projects in 15 countries", by Bruce Gross, Christine van Wijk and Nilanjana Mukherjee, WSP, 2000.

- Gender balance to give equal opportunity to women and men in learning, decision-making, and demonstrating their work abilities;
- Gender mainstreaming to incorporate gender sensitive thinking and actions into the core of work and social setting without having to take special actions.

Gender and Water Supply & Sanitation in Lao PDR

In line with the Government's national progressive agenda, and the international experience with gender promotion in water supply and sanitation projects in various parts of the world, Nam Saat's National Strategy recognized the advantages of *gender equity* by specifying several gender strategies.

- 1. Encourage women's involvement in community decision-making, implementation and management of water supply, sanitation and hygiene activities.
- 2. Increase the number of Nam Saat women personnel at every level and in all major components, including the use of Gender Balance Targets (GBT)⁵.
- 3. Set up a special training apprenticeship for Nam Saat's work for rural and ethnic minority women who lack the education level for regular government service.
- 4. Conduct gender awareness training for all staff.
- 5. Ensure that gender dis-aggregated data is collected and analyzed.

Since the approval of the National RWSS Strategy in 1997, Nam Saat has made notable progress in its community level work as the analysis below shows. These statements show that incorporating gender balance and sensitivity into its institutional make-up remains a challenge for the future. However, herein lie some lessons from which Nam Saat is basing its future steps towards a more gender balanced approach and gender equity.

IMPROVING GENDER SENSITIVITY IN NAM SAAT

What was usually said in the PAST:

"Field work is too dangerous and strenuous for women staff therefore they should be assigned office duties".

"Women do not have the strength and ability to do technical work, and therefore should be assigned to office tasks".

- " Village women do not have the education to be on management committees".
- "Women should not be promoted as leaders and decision-makers as they always leave work to have bables".

What is NOW increasingly heard:

"Women make effective field staff, especially in promoting community dialogues, community organizing and hygiene awareness, and encouraging village women's participation".

"To develop Nam Saat's full human resource potential, both men and women staff should be given opportunities for training and assignments, according to their abilities and interests".

"Yillage water management groups become effective and efficient when men and women share decision-making and responsibilities".

"Good leadership is based upon ability and experience, regardless of a person's biological sex and marital status".

⁵ Gender Balance Targets = Percentages set for women and men's participation for each activity of the Plans of Actions. The targets are achievable and reasonable, and intended to progressively move towards a 50:50 ratio.

Participatory Approach in Communities Promotes Gender Equity

Nam Saat and its partners support the principle of empowering community women in all aspects of its work. In the past, community decisions were made by a small group of village leaders, which almost always consisted of only men except for the local LWU representative. Applying the Participatory Approach in a systematic manner opens opportunities for both women and men to be involved together in every aspect of the project. For many women, especially those from ethnic minority groups, Nam Saat's new Participatory Approach offers women their first occasion to discuss, plan,

decide, implement and manage village action equally with men. Through this approach, Nam Saat has put gender equity into the core of its community work. Some elements of such a systematic Participatory Approach in the provision of water supply and sanitation services currently applied or planned for application are:

By its nature, the Participatory Approach promotes gender equity into the mainstream of the Nam Saat's work and improves women's opportunities to participate.

- * The Community Dialogue Process⁶ encourages women and men to voice their opinions separately and then come to a consensus.
- * Informed Choice: Women and men choose the most cost-effective, appropriate technology for the village (Informed Choice).
- * Community User Groups: User Groups are gender balanced in both duties and numbers.
- * Consensus on Village Agreements: Village Agreements are discussed in the village in order to build ownership before signing.
- * Contribution during Construction: Women and men participate with skilled and unskilled labor during the construction.
- * Hygiene Promotion: Women and men learn and practice improved hygiene to improve health and well being.
- Hygiene Promotion in Schools: Girls and boys in school are taught good hygiene practices.

To ensure that women are not disenfranchised once Nam Saat's project work is completed, it is essential that:

- Nam Saat continues to adheres to the key principles of the participatory approach which is now being implemented by Nam Saat in the provinces, districts and villages.
- Nam Saat monitors the effects of this participatory approach and its effect on gender equity over the long-term.



Community Dialogue in Ban Vang Va Village, Oudomxay Province

⁶ For further information, see "Manual on the 12 Steps Approach in Participatory Planning & Implementation, Part A", Nam Saat/WSP-EAP/UNICEF, June 2000 and "Manual on Community Dialogue", Nam Saat/WSP-EAP/UNICEF, July 2000.

GENDER DEVELOPMENT IN LAO PDR AT A GLANCE

1985: Gender Concerns Invisible

- Nam Saat consults and trains mainly men community leaders on water supply and management issues.
- LWU trains mainly women on hygiene.
- Nam Saat field staff are almost all men.
- Nam Saat leadership at all levels is mostly men.

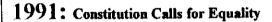


1997: Gender Concerns Raised in National Strategy on Rural Water Supply and Environmental Health which includes:

- A new effort to increase the women staff within Nam Saat at every level and in all major components, including the use of Gender Balance Targets.
- A special training internship mechanism for the recruitment of rural women and ethnic minority volunteers who do not have the education levels for regular government service.
- Regular staff training in gender awareness and sensitivity.
- Gender dis-aggregated data in surveys and analysis for improving annual plans of actions.
- Encouragement of women's involvement in community decision-making, implementation and management of water supply, sanitation and hygiene activities.

1986-90: LWU Begins WID Efforts

- LWU begins to pilot Women in Development (WID) projects which focus on water supply and sanitation.
- Lao Women's Congress of 1989
 endorses women's participation in
 community development, noting
 LWU's effective results in water
 supply, hygiene and sanitation with
 Nam Saat.



Lao Constitution declares equality of women and men. UNICEF, ESAs and many NGOs call for increased women's participation in Nam Saat work.



1995: International Gender Platforms

Following active participation, Lao Government endorses twelve Gender Platforms adopted in the International Conference on Women in Beijing.





GENDER DEVELOPMENT IN LAO PDR AT A GLANCE

1998 - 2000: Gender Learning Begins

At Central Nam Saat Level

- Annual Workplan for 1999-2000 sets Gender Balance Targets for each proposed training activity (except TOT on Management).
- Two women hygienists that left the unit in 1997 were replaced by two women.
- Gender Awareness Workshop for central leaderships takes place.
- Two planning staff and adviser attend two week gender and water supply training in the Netherlands.
- Dis-aggregated data collected on staffing in JICA funded projects in Bokeo and Luang Namtha provinces.
- No Gender Balance Targets set for other activities (e.g. recruitment of staff, participants in planning and review meetings).
- Women have not yet been appointed in senior decision making positions.
- Draft Gender Plan of Action for 1999-2000 is only partially implemented.
- Recruitment of regional /national advisers strives for gender balance. Staffing remains largely male, providing few women role models.
- Members of the Gender Working Group find meeting together difficult due to workloads and conflicting schedules.

At Provincial and District Nam Saat Level

- Nam Saat field offices add a few women, but staffing largely remains gender imbalanced.
- Two Sekong women trained as drillers and one Bolikhamxai woman trained as store manager, presenting possible role models for the future.
- Spearhead provinces improve gender balance in teamwork in communities with partners.
- Gender Development Plan prepared by Oudomxay Province

At the Community Level

- Community Dialogue Promotes opportunities for both men and women to express their viewpoints and make decisions together.
- Within certain ethnic groups, women's participation remains weak, perhaps because of poor cultural sensitivity.
- Users groups need to be gender balanced.
- Men and women participate in unskilled labor tasks, but not in skilled labor tasks.
- Boys and girls learn about hygiene in schools.

2001 and onwards: Future Targets for Gender Equity, constituting move from Women in Development to Gender and Development approach

At Central Nam Saat Level

- Set Nam Saat Policy on Gender Equity and incorporate into annual personnel recruitment and training plans.
- Insert a minimum of three gender strengthening actions into each annual Plan of Action.
- Set and monitor annually Gender Balance Targets for personnel recruitment, technical and non-technical job positions, and training activities
- Train Nam Saat planning staff on analysis of disaggregated gender data.
- Provide Nam Saat senior leadership with advanced personnel management course with strong emphasis on gender sensitivity.
- Recruitment for further advisory support will aim for gender balance.
- Set the framework for a pilot project for Nam Saat Apprenticeships for Women and Minorities in districts and provinces.

At Provincial and District Nam Saat Level

- Incorporate gender awareness training into all workshops and meetings. Include discussions about differences on gender roles and customs observed among various ethnic groups.
- Set up pilot project on Nam Saat Apprenticeships for Women and Minorities.
- Examine personnel needs and gender balances annually and set Gender Balance Targets.
- Implementation of Gender Development Plan in Oudomxav Province

At the Community Level

- Begin gender sensitive monitoring, noting impact on quality of work and effectiveness of members of User Group Committees on sustained operations and maintenance.
- Include women in skilled labor training and in technical decisions.
- Intensify hygiene promotion among both men and women.





Gender-Sensitive Participation in Ethnic Minority Villages

In early 2000, a JICA-funded assessment of community participation provided useful gender dis-aggregated observations about community participation in decision-making and physical labor in 34 ethnic minority villages in Bokeo and Luang Nam Tha. The sample showed a range of ethnicity (Leu, Doi, Lamae, Yuan, Thai Dam, Khmu, Akha and Hmong), economic wellbeing (ownership of lowland, upland and mixed fields) and locations (close to district towns to remote).

Women and men's participation in decision-making was rated high in 28 out of 34 villages (82%). People's participation in physical construction was similar, with higher women's participation than men's, except in those villages close to the district center, in only one village a poor gender scenario was seen: women's participation in decision-making was negligible, but they did almost all the physical construction. Survey data also showed differences in participation among the ethnic groups. Most of the Leu and Yuan villages had a high or very high level of women's participation in village decision-making and in construction activities, regardless of the gender factor. Hmong, Khmu, Lamae, Doi villages did not show the same level of women's participation in similar activities as the Leu and Yuan villages.

This gender-sensitive assessment technique which mainly uses observations and key informant discussions is relatively easy to implement and can produce a tracking of gender participation in decision-making, construction and operations and maintenance. After defining the steps and criteria for the observations, provincial-monitoring staff could be trained to perform these assessments regularly. With such data, Nam Saat Central could be trained to make analytical gender assessments.

Positive Gender Steps at the Central Nam Saat

Since 1997, Nam Saat Central has undertaken several small noteworthy steps towards gender development in rural water supply and sanitation in Lao PDR. Central leadership, advisors and Supporting Agencies attended a one-day Gender Awareness Workshop in early 2000. This will need to be repeated at least annually to refresh the learning and assess the gender progress. Similar training also need to be encouraged at the provincial and district levels.

Also, a system for collecting gender dis-aggregated data on personnel records has been introduced, making future gender analysis possible on Nam Saat's staffing patterns. However, besides staffing pattern, other ways of becoming more gender-sensitive also needs to be built into the project performance monitoring systems which is essential for monitoring the progress toward gender balance in terms of numbers, positions and types of responsibilities. This initiatives are in line with the Prime Minister Decree on Gender Statistics⁷.

Nam Saat Central is witnessing a severe work overload as a result of increasing program activities, while staff numbers do not increase simultaneously. The work overload hindered the full implementation of the forward-looking Gender Plan of Action for 1999-2000 for Water Supply and

Sanitation. This plan called for 1) conducting a baseline gender survey, 2) setting a national gender policy for Nam Saat and 3) developing detailed staff gender training courses and programmes.

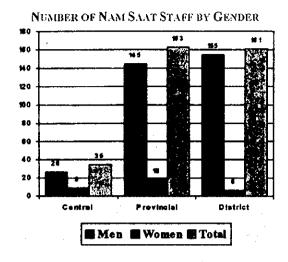
This Plan, developed by two Nam Saat planning staff and an advisor during a two-week specialized Nam Saat recognizes that it is best to plan achievable gender steps which do not consume much staff time or energy for only gender activities and which fit into ongoing main activities.

gender and water supply training course in the Netherlands, proved too ambitious given the severe staff and time constraints faced by Nam Saat. Even the designated staff of the Gender Working Group rarely found time to meet. This calls for a strategic plan to mainstream gender through existing activities and not through special additional activities. Otherwise, it tends to become an additional burden for a small group of people on top of their other work and hence not so effective.

⁷ Decree No. 0009, May 2000: All official data collection processes should integrate gender statistics and promote disaggregated data collection

One persisting gender weakness lies in personnel recruitment and position assignments at all levels. To achieve an gender balance within Nam Saat, women and men should be given the chance to be leaders. managers, social motivators, and technicians based upon their abilities and interests.

Generally, women are under-represented in the overall Nam Saat organization. Only 33 staff, equal to roughly 8 percent of the total staff, are women. Overall, at the central level, women make up 26%, compared to 11 % in the provinces and only 4 percent in the districts. This contrasts strongly with other departments in the Ministry of Public Health, where women make up 55 percent of the total overall



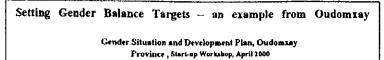
staff and where the number of female professionals is exceptionally high.

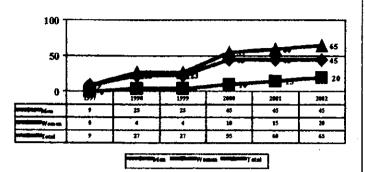
At all Nam Saat levels, there are no senior women managers. This rate compares poorly to the national civil service average of 6 percent. Despite the significant number of qualified professional women in the Ministry of Public Health. Nam Saat has no policy for giving professionally qualified women preference when filling vacant senior and mid-level management positions.

At the central office, strengthening of the hygiene promotion activities saw an increase in the percentage of women technical staff. Presently, at the provincial and district levels, women technicians comprise 7 percent of the total number of staff, indicating a slight growth compared to 1997 Nam Saat personnel data. In part, these rates mirror the 66% illiteracy rate among women in Lao PDR. They also reflect national gender biases in employment: women rarely are assigned to technical designing and surveying, and construction positions, and men are less likely to be given secretarial work.

Nam Saat is in the process to finalize its Human Resource Development Plan and to widely implement its Gender Policy, both of which will provide useful insights for further improving the gender balance. With the number of women staff expected to increase, that the number of women role models is also expected to rise which can further build confidence among Nam Saat staff and attract other women into Nam Saat's program.

It is noted in this regard, that the 1999-2000 Work Plan did set Gender Balance Targets (GBTs) for proposed training activities. An analysis on the outcome of reaching those targets will be most instructive for setting GBTs in other critical activities of the Nam Saat programme, such as staff recruitment, staff involvement in planning and review meetings. Similar target setting is considered very useful and needs to be continued.





It was agreed in the start-up workshop in February 2000 to increase the capacity of the provincial and district units such as the managing secretariat, the provincial/district coordination units, the hygiene promotion and technical teams by gradually recruiting more women than men. As is shown, from 2000 onwards, the number of men staff is planned to remain constant while the number of women staff will increase to 20 % or 31% by the year 2002.

In all Provincial Implementation Planning workshops, Nam Saat requested the provinces to have a gender balanced participation. Good intentions, however, do not always produce results. In the July 2000 Workshop for several southern provinces, for example, no provincial women attended, despite instructions from central Nam Saat and designated funds.

Such imbalanced gender participation indicates that leaders selecting participants in various activities are not yet recognizing the need for women's participation. As a result, they designate only heads of provincial departments, mostly men, and the LWU representatives, who are often busy and overburdened with

"representing women." Meanwhile, the potential of plentiful professional women in the health and education sectors are not fully being recognized.

To attain gender balance in staffing requires gender-sensitive policies, strategies, and targeted planning & monitoring and committed leadership in Nam Saat.

Although recognized that gender balance in staffing is an important, but not the only institutional factor that needs to be addressed. The need for clear strategy on gender equity is called for, which also needs to focus on other essential factors such as a) making gender

equity explicit in policies and project/program objectives, b) introducing gender sensitive project performance and staff performance monitoring indicators, c) using gender-segregated planning and monitoring systems, d) applying training and incentives for gender sensitive performance, e) having skills mix and gender balance in staffing. All these factors need to be present in a strategy to make such a institutional strategy a more powerful tool for change.

District and Provincial Women Staff Essential for Local Effectiveness



Women's active participation in construction

As suggested in the national Sector Strategy, Nam Saat has established valuable alliances with the LWU, LYU, Hygiene Units and Education Departments. Inter-sectoral teamwork is participatory crucial for performing planning, community dialogues hygiene promotion activities at provincial and district levels. These partnerships actually help to boost the gender balance in field teams, as Nam Saat technicians are predominantly men.

However, there is a negative side to this. By relying heavily on partners for creating gender balance in staffing, Nam Saat's severe gender imbalance in the provinces and districts is masked and the pattern of staff selection and work assignments remains largely as in the past - men are assigned field work and management positions and women continue to be assigned basic office tasks8. Furthermore, the gender

In remote under-served areas where few local women have attained minimal education for government service. Nam-Saat recruitment will need innovative actions, such as developing an apprenticeship program for women.

discrepancy hampers Nam Saat's overall effectiveness, especially in communicating with village women, the main collectors of water supply and promoters of hygiene change.

One of the added barriers that Nam Saat in under-served faces. particularly districts, is that extremely few women, especially among the ethnic minorities, attain a high school diploma, the latter being a requirement for becoming a civil servant. In addition to this, national budget constraints restrict the hiring of addition personnel. Yet, it is believed that without women district staff, persistent gender and linguistic barriers found in most ethnic minority settings will not be eased and as such hinder the provision of sustainable water supply and sanitation services. One innovative solution is to form a special work apprenticeship program to train and recruit women who have had little opportunity for education and work.

Special Work Apprenticeship Program: Filling the Gender Personnel Gaps in Poor Areas

service difficult-to-reach areas, where basic education and work opportunities are limited, an innovative apprenticeship program for women and ethnic minorities is emerging. One model set up by the Sekong Indigenous People's Development Programme (SIP-Dev) mentors nine district development trainees (5 women, 4 men, and all ethnic minorities). The target is to provide them with continuous on-the-job training in community development (8 months / year) and adult education classes (4 months / year) for up to 5 years. In return, SIP-Dev builds a critical core of women and ethnic minority developers without whom institution's work could not be implemented over the long-term. The apprentices receive a modest trainee stipend (equivalent to a low level government salary). The annual cost for the training, and stipends of 9 apprenticeships is less than \$10,000. Funded through donor support, the apprentices are not governmentsalaried staff, but vocational trainees.

Personal Profile of Ms. Souvannali, so far the only female technician with Nam Saat in Sayaboury province.

Ms. Souvannali (Nali) started working at the provincial Nam Saat office about three years ago after graduating in nursing with a focus on hygiene education. Her original job was accountant, but she also did secretarial work

Her supervisor Or Sythat encouraged Nati to go with him and the all-male technical team when they went into villages because he believed that a woman would make village women feel more comfortable. He was right, many women were much more interested and willing to talk with Nali than they would have been with an all-male technical team. At first Dr. Sythat had to support Nali's work by helping her get familiarize with participatory extension methods but she learned quickly and assumed more responsibility with every visit

Through the years, Nair's experience and knowledge continued to increase as she moved from needs assessment in villages to more technical work as well. Now Nali has finished studying Auto-cad, a computer design program used by water technicians for building Gravity-fed Water Systems. She has been on site for the construction of several, such systems, and knows a lot about designing and building water and sanitation infrastructure. Her three years experience working with the Nam Saat team in Sayaboury has been a time of learning and exchanging. Having Nati on the technical team when going into villages sends a positive message to villagers regarding the role of women in clean water work - that water supply work is not just men's work This contributes to the acceptance of women as full members of water user groups. Because Nati enjoys work with villagers, many people benefit from her knowledge and experience. She loves the challenges of her work.

"I have many years of experience... I can help with construction. I can do needs assessment with villagers and I know about what it takes to build latines or Gravity-fed Water Systems in rural villages" - Souvannali, September 2000

9 Information Provided by Save the Children Australia, Lao PDR

⁸ With a few exceptions: 2 drillers in Sekong province, 1 store manager in Houphan and 1 technician in Sayabouri.

Several Small Steps Make a Big One

Nam Saat has begun to recognize the practical advantages of promoting Gender Equity and empowering women. Furthermore, it is finding practical creative solutions to overcome its gender barriers, to improve gender balances, and to undertake gender sensitive action. From Nam Saat's gender-focused efforts in the late 1990's, three main lessons have emerged.

- 1. If implemented within an overall framework, consistently taking **small gendersensitive steps** can lead to a big step forward on gender equity and the advancement of women.
- 2. Within ongoing, main activities, there are numerous opportunities to include gender-sensitive actions with minimal staff time and inputs.
- 3. **Gender-sensitized leaders** with strong commitment for achieving gender equity are crucial for guiding gender policies and actions at all levels.

With these lessons in mind, Nam Saat Central endeavors to undertake three small gender steps with minimal amounts of time and staffing which should spark broader gender actions.

- 1. Draft a short Nam Saat Policy on the Promotion Gender Equity for consideration in Nam Saat's Annual Review Meeting.
- 2. Finalize the Human Resource Development Plan with its Annual Plan of Action, ensuring that recommendations are gender-sensitive and that gender balanced approaches are applied in the human resource development of Nam Saat at all levels.
- 3. Draft a brief Concept Paper for a Nam Saat Pilot Apprenticeship Programme for recruiting women in under-served areas.

Furthermore, Nam Saat intends to propose a series of small gender-sensitive steps for consideration, review and reporting at each annual work plan such:

- Examine the progress towards gender equity at the Annual Review Meeting.
- Target at least three new achievable gender-sensitive actions for the year.
- Set Gender Balance Targets for all activities involving meetings, training, study tours, and recruitment, and assess the progress in the year.
- Require that all reporting contain gender dis-aggregated data and a section on the gender situation and problems encountered.
- Include in job descriptions the phrase "women are urged to apply" and "qualifications being equal, women will be given preference" as a initial step toward improving the noted weakness in personnel recruitment and positions assignment at all levels.

Collectively, these progressive gender actions should not only improve Nam Saat's gender equity, but also provide useful lessons for other government departments in the Lao PDR and elsewhere.

Nam Saat Policy on Promoting Gender

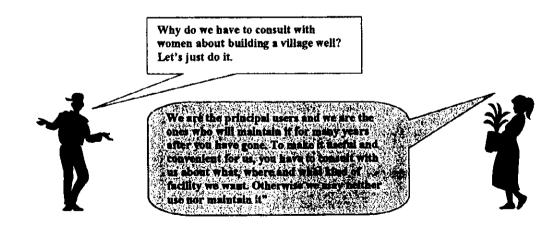
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The National Center for Environmental Health and Water Supply (commonly known as Nam Saat) affirms the Constitutional right that all women and men have equal rights. As stated in its Rural Water Supply and Environmental Health Sector Strategy, Nam Saat endorses the policy of promoting equal gender rights and opportunities within all aspects of its program.

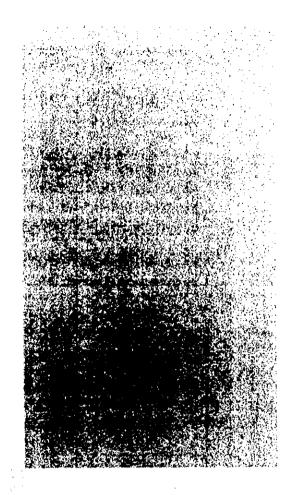
In accord with that policy, Nam Saat staff, partners agencies and external support agencies are strongly urged to:

- 1. Ensure equal opportunity for women staff of Nam Saat and its partner agencies to participate in and to lead activities in planning, implementation, evaluation and learning;
- 2. Foster a professional atmosphere of gender sensitivity and gender awareness;
- 3. Improve the gender balance in its overall personnel staffing, particularly hygiene awareness, design and survey and senior position related to management;
- 4. Enable women as well as men to voice their concerns and ideas, make decisions, and have access to the learning, power, and benefits.

Presented to all participants at the Annual Review and Planning Meeting, 7-11 August 2000, Thalat, Vientiane Province







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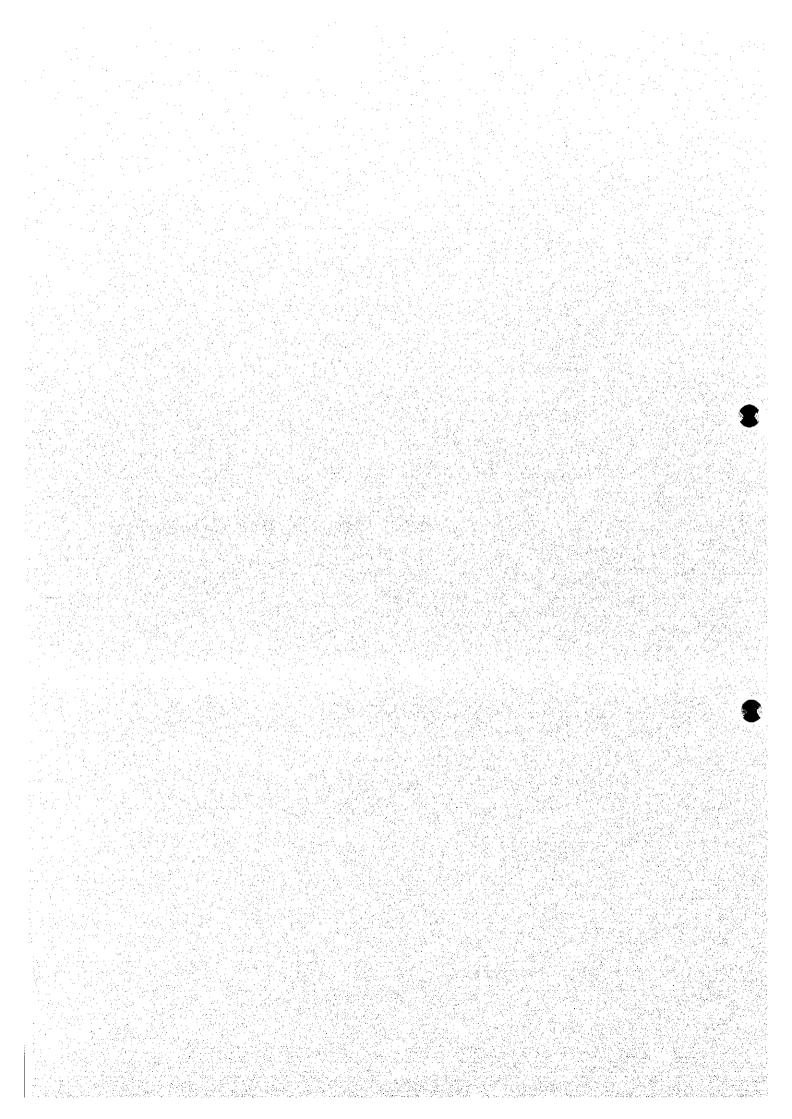
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12. Press Coverage



DEVELOPMENT



JICA study team leader Shoji Fuji exchanges signed documents with the Director of the National Centre of Environment and Water Supply, Dr Nouanta Maniphouxay

-Photo by Anoulack

Two northwestern provinces to have clean water

EIGHTY villages in two northwestern provinces can expect to have access to clean water, after the government of Japan agreed to conduct a clean water project in this part of the country.

The Japan International Cooperation Agency (JICA) this week signed an agreement with the National Centre of Environment and Water Supply to carry out a water sanitation project using spring water from the mountains.

This project expects to supply water to people in 80 villages in Houei say district of Bokeo province and the districts of Long, Viengphoukha, and Namtha of Luang Namtha province.

The project actually started earlier this month when JICA sent a study team to Laos to

formulate a development plan for the project with emphasis on technology transfer in pursuit of capacity building of provincial and district personnel in these provinces. The project is scheduled to be complete in December of the year 2000.

According to an official from the National Centre of Environment and Water Supply, this is the third time the Japanese government has granted assistance for water sanitation projects in rural Laos.

Previously, IICA completed construction of artesian wells in Vientiane province and now it is conducting a similar project in Champassak and Saravan provinces.

Attending the signing ceremony were Mr Hiroomi Sakai, Ambassador of Japan to Laos and other officials from concerned organisations.

DEVELOPMENT

JICA's Pilot Study in Luang Namtha and Bokeo

THE Japanese assisted Study on Rural Water Supply and Sanitation Improvement in northwest region has completed its first phase and is now starting the Phase II.

The JICA Study targets 81 villages in 2. districts (Long and Viengphoukho) of Luang Namtha province and 2 districts (Houayxai and Pha Oudom) in Bokeo Province.

In Phase I, village surveys were made at the target villages by provincial and district level personnel from local government, who received training on participatory socioeconomic surveys and technical water resource surveys through the training program carried out in the Study. The survey results become the baseline data for formulating a development plan for this area.

In Phase II, a pilot study will be conducted at 27 villages out of the 81 target villages selected through an elaborate screening process. The pilot study is scheduled to be implement 13 gravity fed systems (GFS), 2 borehole villages and one dug well village for a total of 16 water supply schemes. Moreover, 12 villages will have flush type latrines.

Workshops will be held during Phase II to share the results of Phase I and explain the strategy of the pilot study to other donors, mass organizations as well as provincial and district authorities. The first workshop is scheduled to be held on October 25, 1999 at Luang Namtha. The second workshop is scheduled for the middle of November.

Also in Phase II, the participants who made the villages surveys in Phase I, will receive a Training of Trainers (TOT) to further strengthen their capacity for sustained



Signing agreement for improvement of water supply and hygiene in the north-west provinces of Laos.

-Photo by Viengsone

improvements. Using the knowledge obtained through the TOT, a leaning-by-doing process will be applied to conduct community dialogues at the pilot villages using demand driven approaches to confirm the villagers' willingness to (1) organize village water supply

and sanitation committees; (2) be involved in of the construction works, the pilot study villages local materials and eash to the construction of maintenance plan for the facilities.

participatory planing, (3) contribute labour, will be monitored and evaluated. The results from this monitoring as well as the results from Phase the facilities, and (4) create a sustainable. I surveys on non-pilot villages will be used to formulate a plan for sustainability in Luang Then as part of Phase III, after completion. Namtha and Bokeo provinces.

DEVELOPMENT

Phase II of JICA's northwest water supply and sanitation study

JICA said last week the Study on Improvement of Rural Water Supply and Sanitation in North-West Region of Lao PDR, is now in Phase-II of operation.

According to a press release, The Study supported by the Japan International Cooperation Agency is based on the Agreement of pilot study signed in October, 1999 between the National Center of Environmental Health and Water Supply (Nam Saat), the Ministry of Health, and JICA.

In this pilot study phase, 16 water schemes and latrines at 12 villages will be constructed through the contributions of the villagers in

labour, materials and cash.

The villagers living in the remote areas of Luang Namtha and Bokeo Provinces, who are mostly ethnic minorities, are becoming aware of the need for sanitation and proper management through the community dialogues and guidance associated with the pilot study, the release said.

JICA said it will closely monitor behavioral changes and social developments of these villagers.

The report said the close collaboration between Nam Saat and the villagers was becoming more apparent through these activities.



Digging and installing a gravity-fed system.

NEWS



The hand-over ceremony of water supply facilities and latrines to Bokeo and Luang Namtha authorities,

Japan supports rural water supply

WATER supply facilities and latrines were constructed through the participation and contributions of selected villages for the JICA (Japan International Cooperation Agency) supported Study on Rural Water Supply and Sanitation Improvement in Bokeo and Luang Namtha Provinces. The completed facilities, which were constructed as pilot study, were handed over to the villages for operation and maintenance. The villages contributed labor, local materials and cash in kind towards the construction works so the villagers have a sense of ownership of these facilities. After completion of these facilities, a monitoring survey will

be conducted to confirm the social developments, behavioral changes and sanitation awareness of the users in relation to their new water schemes and latrines. Handing over ceremonies were held at Ban Poung in Houayxai District on 15 February 2000 presided by Mr. Boualan Silapanya, the Honorable Governor of Bokeo Province and Dr Pheng Sy Viensavan, the Director of Bokeo Provincial Public Health Department; and at Xiengkok Mai and Xiengkok Kao of Long District on 19 February with the presence of Dr Phouthone Vangkonevilay, the Director of Luang Namtha Provincial Public Health Department.

NEWS

JICA aid for Luang Namtha water supply

KPL — CONSTRUCTION of five clean water supply facilities worth over 289 million kip in Long district, Luang Namtha province, is nearly completed.

"The improvement of environmental health and water supply programme" is funded by JICA, the Japan International Cooperation Agency.

Constructions comprise: over 100 million kip worth of clean water supply facilities at Siengkok Kao and Siengkok May villages, to include over four thousand metres of pipe with 14 taps, which began December 10; clean water facilities at Luang

village worth over 50 million kip, which began in January - 195 metres of pipe with six taps; clean water facilities at Chamkhamping village, worth over 12 million kip, which began in January - 220 metres of pipe and two taps; clean water facilities at Deankang village worth over 68 million kip, commencing in October last year - 370 metres long pipe laying with eight taps; a clean water site at Tinthat village worth 59 million kip, which began in January - 1,930 metres of pipe with seven taps.

JICA has also provided funds for 118 lavatories at Siengkok Kao and Siengkok May villages, costing 21 million kip.

March 7-9, 2000

VIENTIANE TIMES

WHAT THE LAO LANGUAGE PAPERS SAY

Pasason

Five clean water projects in Long district nearly completed

FIVE water supply and environmental improvement projects in Long district, Luang Namtha province, are nearly completed, reported *Pasason* on March 6.

The JICA-funded projects, worth more than 289 million kip, include:

Xiengkok Kao and Xiengkok Mai project, over 100 million kip, with 4,000m of pipe and 14 taps, 95% complete;

Ban Luang project, over 50 million kip, 195m of pipe and 6 taps, 95% complete; Chakhamping project, over 12 million kip, 220m of pipe with 2 taps, 45% complete; Ban Dandkang project, over 68 million, 370m of pipe with 8 taps, 90% complete; Ban Teentath project, over 59 million kip, 1,930m of pipe with 7 taps, 97% complete. JICA has also given 21 million kip to Xiengkok Kao and Xiengkok Mai villages for sanitation.

NEWS

JICA funds Bokeo water supply

KPL — JAPAN International Co-operation Agency (JICA) has paid 200 million kip for the recently-completed gravity-fed water supply and latrines at Poung village, Houaisai district, Bokeo province.

Construction began last December. An extra 76 million kip was raised

from local people.

The 7,250 metre long facilities consist of two reservoirs with a capacity of 240 cubic metres, with 14 water taps and meters.

JICA also paid 2 million kip to build 11 latrines.

August 8 -10, 2000

VIENTIANE TIMES

NEWS

JICA agree to extend the study on rural water supply in Bokeo

A SIGNING ceremony was held on 7 August at Thalat, Vientiane province to agree on extending the on-going JICA (Japan International Cooperation Agency) study. Dr. Nouanta Maniphosay, director of Nam Saat, Ministry of Health; Mr. Shoji Fujii IICA study team leader; and Mr. Makoto Aoki, resident representative of JICA Laos office were in attendance for the signing. JICA is now supporting the study on rural water supply and sanitation improvement in North West region of Lao PDR, and phase 3 of this study is expected to end in December 2000. However, Nam Saat has requested an extension of this study to include another pilot study to implement water supply facilities and latrines at village which were not covered by the previous pilot study. This extension aims to further build the capacity, strengthen the institution, and extend coverage of water supply and sanitation. About 17 villages in Houayxai district of Bokeo province as well as long and Viengphoukha districts of Luang Namtha province are candidates for the pilot extension. Nam Saat will initiate the pilot study extension through the participation and contribution of the selected village. As a result of this extension, the completions of the study itself will be extended to March 2001.

Basic Human Needs (BHN)

In the Lao P.D.R, rapid economic reform is expected to polarize the gaps between various social groups in BHN areas such as basic education and health care. The improvement of BHN, particularly in local communities is essential to improve quality of life and to attain social equality.

JICA carries out 4 main programs:

1) Propagation of public health:

Health and Medicine are areas facing tough challenges in the Lao PDR. Infant and maternity mortality is higher compared with neighboring countries, especially in rural and remote areas. An efficient management system of medicine and health care is needed to cater to demand.

2) Improvement of medical technology:

For the improvement of medical services, JICA assists improving core hospitals, as well as educating medical personnel.

3) Propagation of primary and secondary education:

JICA assists upgrading the quality of education by dispatching experts for developing curriculam for primary and secondary education. Gender, ethnic and regional gaps are given careful consideration, as is an emphasis on rural and remote areas.

4) Improvement of Living Environment and Establishment of Environmental Administration:

Environmental management, natural resources (such as forest and water resources), cities and industries (such as solid waste) are problems of significance. JICA assists each organization and human resource development for better management of the environment.

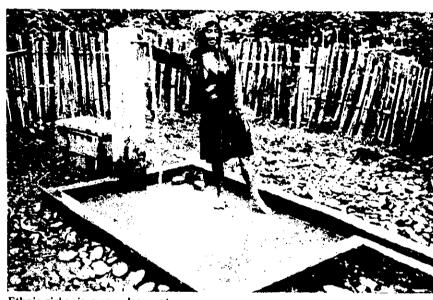


A pilot project on clean water supply in a village in Bokeo province. Rural Water Supply and Sanitation Improvement in North West region, Development Study.

JICA studies water quality in Luang Namtha and Bokeo

DRAFT results of a two-year study to investigate water quality and sanitation issues in the north-west of Laos have been submitted to the Government.

The JICA sponsored study, which began in February 1999 and is due for final completion in March targets 81 mainly ethnic minority villages in Luang Namtha and Bokeo provinces. Facilities to improve water supply and sanitation, such as wells, latrines and pumps were installed in the villages with their participation. The study concludes that the lives of villages have improved significantly since construction Ethnic girl enjoys new clean water. of the water supply facilities



and latrines was completed. Villagers have significantly changed their social and economic behavior.

The project was implemented alongside Nam Sa-at and the Government.

A workshop to share views and experiences on the results of the study is scheduled for February 6 in Vientiane. The final report will be submitted in March this year.

