

3) Field Survey III (December 11, 2012)

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MINUTES OF DISCUSSIONS
ON THE OUTLINE DESIGN STUDY
FOR THE PROJECT FOR STRENGTHENING HEALTH SERVICE NETWORK
IN SOUTHERN PROVINCES IN LAO PEOPLE'S DEMOCRATIC REPUBLIC
(EXPLANATION OF DRAFT REPORT)

In March and June 2012, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Outline Design Study Team on the Project for Strengthening Health Service Network in Southern Provinces (hereinafter referred to as "the Project") to the Lao People's Democratic Republic (hereinafter referred to as "Lao PDR"), and through discussions, field surveys and technical examination of the results in Japan, JICA prepared the draft report of the study.

In order to explain and to consult the Government of Lao PDR on the contents of the draft report, JICA sent to Lao PDR the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Mitsuru Suemori, Senior Advisor, JICA from 3rd to 11th December, 2012.

As a result of the discussions, both parties confirmed the main items described on the attached sheets.

Vientiane, 11th December, 2012



Mr. Mitsuru Suemori

Senior Advisor,
Human Development Department

Japan International Cooperation Agency
Japan



Assoc. Prof. Dr. Chanphomma
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Director General,
Department of Health Care

Ministry of Health
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ATTACHMENT

1. Components of the Draft Report:

- 1-1 The Lao side agreed and accepted in principle the contents of the draft report explained by the Team.
- 1-2 Both sides agreed on the components of the Project shown in Annex-1.

2. Schedule of the Study:

- 2-1 The Team will conduct and explain the detail design and the tender documents in April 2013.
- 2-2 The Team will complete the final report in accordance with the confirmed items and send it to the Government of Lao PDR by May 2013.

3. Measures to be taken by the Lao side:

- 3-1 In case the Project will be implemented, the Lao side agreed to take necessary measures for the smooth implementation of the Project which were agreed in the Minutes of Discussions signed on 13 March, 2012.
- 3-2 The Ministry of Health requested that the costs to be borne by the Lao side should be less than 10% of the total amount of the Project. The Team explained that the cost for the Lao side will be approximately 2%. The Provincial Health Offices of Champasack, Salavan, Sekong, and Attapeu agreed to bare the estimated costs explained by the Team shown in Annex-2.
- 3-3 To assure effectiveness and sustainability of the Project, the Provincial Health Offices of Champasack, Salavan, Sekong, and Attapeu agreed to allocate necessary staff and cover the costs for operation and maintenance shown in Annex-3.

4. Other Relevant Issues:

4-1 Changes of the project sites

- 4-1-1 The Lao side explained that the project site for Noonsavang Health Center in Champasack Province (C17) has been changed. Both sides agreed on the new construction site for C17. The Champasack Provincial Health Office promised to submit the land certificate and UXO free certificate by 21st December, 2012.
- 4-1-2 The Lao side explained that the project site for Tateu Health Center in Sekong Province (X02) has been changed. Both sides agreed on the new construction site for X02. The Sekong Provincial Health Office promised to submit the land certificate and UXO free certificate by 21st December, 2012.

4-2 Land Certificate

The Attapeu Provincial Health Office agreed to submit the Land Certificate shown in Annex-4 by 21st December, 2012.

4-3 UXO free certificate

The Lao side agreed to clear all of the UXO from the project sites listed in Annex-4 and submit the UXO free certificate by the end of February 2013.

4-4 Health center construction

4-4-1 Both sides confirmed that the construction of Chalea Health Center in Sekong Province (X03) will be complete before the staff house will be constructed under the Project.

4-4-2 The Lao side explained that due to budget constraint they currently cannot construct the health center in Paxay Health Center in Sekong Province (X04). Therefore, the Lao side requested the Team to construct the health center for X04. Based on the discussions, the Lao side agreed to submit the confirmation letter to JICA Laos Office.

4-5 Staff house construction

4-5-1 Both sides confirmed that the construction of staff houses for the 3 sites where new health center will be constructed under the Project in Salavan (S-04: Nadonkhuang Health Center, S-17: Dong Nhai Health Center, S-18: Vang Peui Health Center) which were requested in June 2012 will be covered in the Project.

4-5-2 The Lao side requested to the Team to change the priority of Scope of Work from III to II due to the increasing needs for the construction of staff houses for Donechan Health Center (X05) and Nongkan Health Center (X08) in Sekong Province. The Team took it into consideration and agreed to construct 2 additional staff houses as requested.

4-6 Layout of the staff house

Both sides agreed to modify the layout of the staff house (entrance and space for wooden oven) from the environmental point of view shown in Annex-5.

4-7 Plan for the water supply

4-7-1 Based on the results of the additional water supply survey, the plan of the water supply has been modified. Both sides agreed on the plan shown in Annex-6.

4-7-2 The Lao side agreed that Provincial Health Offices of Champasack, Salavan, Sekong, and Attapeu will coordinate with Nam Sa-at (The National Center for Environmental Health and Water Supply) at ministerial and provincial level and other relevant organizations to manage the water supply including the water being supplied by the private sector.

4-7-3 Both sides confirmed the necessity of the protection work for water sources (borehole and spring water). The protection work will be included in the Project for the sites listed in Annex-5.

4-7-4 The Lao side agreed to provide clean water to health center by means of sterilizing coliforms.

4-8 Medical equipment

4-8-1 Both sides agreed on the list of equipment for 9 district hospitals and 67 health centers shown in Annex-7.

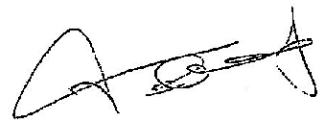
4-8-2 The Lao side requested ultrasound and additional equipment for the laboratory in the district hospitals to upgrade the medical services.

4-8-3 Both sides agreed that the microscope will be procured to 8 health centers shown in Annex-7. The Lao side agreed to take necessary measures such as conducting training, allocate supplies, and budget to utilize and maintain the microscope.

4-9 Medical waste management

Both sides confirmed the importance of medical waste management for health centers. Burning pit for general waste will be constructed in the Project. The Lao side will take necessary measures for proper medical waste management.

- Annex-1 Components of the Project
- Annex-2 Estimated costs to be borne by the Lao side
- Annex-3 Estimate costs to be borne by the Lao side for Operation and Maintenance
- Annex-4 Land Certificate and UXO free certificate submission list
- Annex-5 Modified layout of the staff house
- Annex-6 Water supply plan
- Annex-7 Medical equipment procurement list



Summary of the Project Components

1. Total number of the sites for construction: 58 sites
 - 1) Health Center Only: 33 sites
 - 2) Staff House Only : 14 sites
 - 3) Health center and staff house: 11 sites
 - 4) Water Supply:
 - Water connection with urban/village water supply: 4sites
 - Existing Water Source
 - Village water supply: 2 sites
 - Spring Water: 5 sites
 - Borehole: 19sites
 - (Including the test borehole during the additional water supply survey: 4 sites)
 - New construction of the well: 28 sites
 - 5) PV system: 9 sites
2. Total number of the sites for medical equipment procurement: 76 sites
 - 1) District hospital: 9 sites
 - 2) Health Center: 67 sites



COMPONENT OF THE PROJECT

Site No.	Site Name	District	Building Facilities				Infrastructure (other facilities)					Equipment
			Health Center			Staff House	Water Supply System		PV System			
			A	B	B'		Borehole	EWT	HC +/or SH	RF	WP	
A-01	Boengphonkhan / Lak52	Samarckay	III			I	-	I	-	-	-	I
A-02	Halang Nhai	Samarckay		I			I	I	-	-	-	I
A-03	Dak Vieng	Xaysettha		I			-	I	-	-	-	I
A-04	Sompoi	Sanamxay	II				II	II	-	-	-	II
A-05	Ban Thae	Sanamxay	I				I	I	-	-	-	I
A-06	Ban Mai	Sanamxay				III	-	-	-	-	-	I
A-07	Namsou	Samxay	III			I	-	I	I	I	-	I
A-08	Sapuan	Xaysettha				II	II	II	II	II	II	I
A-09	Keng Mikhna	Xaysettha				II	II	II	II	II	II	I
A-10	Na Sank	Phouvong		I			I	I	-	-	-	I
A-11	Ka Ouan	Phouvong				III	-	-	-	-	-	II
A-12	Honay Keo	Phouvong				II	II	II	-	-	-	I
A-13	Nam Kong	Phouvong				III	-	-	-	-	-	I
A-14	Bang Vilai	Sanamxay				I	-	I	I	I	I	I
A-15	Pak Bo	Sanamxay				I	I	I	I	I	I	I
A-17	Kam Khan	Samarckay				III	-	-	-	-	-	I
A-18	Languao	Samarckay				II	-	II	-	-	-	I
A-19	Somsamouy	Samarckay	*repair roof			II	-	II	-	-	-	I
A-20	Ban Meun	Samxay				III	-	-	-	-	-	II
A-22	Phou Home	Phouvong				II	-	II	II	II	II	I
C-01	Ban song	Pakse	II				II	II	-	-	-	II
C-02	Saphai	Sanasomboun	II				II	II	-	-	-	II
C-03	Km 21th	Bachinog	II				II	II	-	-	-	II
C-04	Vernsay	Phonthong	I			II	I	I	-	-	-	I
C-05	Pathumphon	Pathumphone	I				I	I	-	-	-	I
C-06	HonyNgem	Champasak	I			I	-	I	-	-	-	I
C-07	Vernyang	Moonlapamok		III		III	-	-				II
C-08	Nafang/ Bankeang	Khong	II			III	-	II	-	-	-	II
C-09	Salow	Sanasomboun		I			I	I	-	-	-	I
C-10	Banphon	Phonthong	I				I	I	-	-	-	I
C-11	Koudchick	Phonthong	II				-	II	-	-	-	II
C-12	Kalse	Pathumphone	I			I	I	I	-	-	-	I
C-13	Phonthong	Phonthong	I				-	I	-	-	-	I
C-14	Champasak	Champasak		III			-	-				I
C-15	Phaphe	Pathumphone		III			-	-				II
C-16	Phonsikot	Pakse	II				II	II	-	-	-	II
C-17	Noonsavang	Pakse	II				-	-	-	-	-	II
C-18	Selabou	Sanasomboun	I				I	I	-	-	-	I

Site No.	Site Name	District	Building Facilities				Infrastructure (other facilities)					Equipment
			Health Center			Staff House	Water Supply System		PV System			
			A	B	B'		Borehole	EWT	HC +/or SH	RF	WP	
C-19	Kuangxi	Bochiang					-	-				II
C-20	Nam-om	Pathoumphone	I				I	I	-	-	-	I
S-01	Naxay	Salavan	I				-	I	-	-	-	I
S-02	Beng Oudom	Salavan	I				-	-	-	-	-	I
S-03	Kasa Ngai	Salavan	II				II	II	-	-	-	II
S-04	Nadonkhuang	Salavan	I			II	-	I	-	-	-	I
S-05	Phakcha	Salavan	I				I	I	-	-	-	I
S-06	Buangxay	Salavan	I				-	I	-	-	-	I
S-07	Dan Nalao	Lakhomphong	II				II	II	-	-	-	II
S-08	Phonsung	Lakhomphong	I				-	I	-	-	-	I
S-09	Lak 90	Lakhomphong	I				I	I	-	-	-	I
S-10	Nadon Kao	Lakhomphong	I				-	I	-	-	-	I
S-11	Khonsay	Vapi	II				II	II	-	-	-	II
S-12	Sepbat	Vapi	I				-	-	-	-	-	I
S-13	Tangio	Khongsedon	II				-	-	-	-	-	II
S-14	Thaluang	Khongsedon	II				-	II	-	-	-	II
S-15	Kenghuad	Khongsedon	II				-	-	-	-	-	II
S-16	Nong Kae	Laongam	I			II	I	I	-	-	-	I
S-17	Dong Nhai	Laongam	I				I	I	-	-	-	I
S-18	Vang Peni	Laongam	I				II	I	I	-	-	I
X-01	Dakdai	Dakchung				II	-	II	II	II	II	I
X-02	Tatou	Dakchung				I	-	I	I	I	I	I
X-03	Chalou	Kaleum				I	-	I	I	I	I	I
X-04	Paxay	Kaleum				I	-	I	-	-	-	I
X-05	Doneschan	Lamam	II			II	II	II	-	-	-	II
X-06	Phou	Lamam	I			II	-	-	-	-	-	I
X-07	Tanoun	Lamam			I	I	-	I	-	-	-	I
X-08	Nongkam	Tateng	II			II	-	II	-	-	-	II
X-09	Yup	Tateng		I		II	-	I	-	-	-	I
Total excluding SOW III			38	5	1	25	28	52	2	2	8	67

EWT: Elevated Water Tank RF: For vaccine refrigerator WP: For water pump

I: SOW I II: SOW II III: SOW III

Estimated Costs to be borne by Champasak Provincial Health Office (PHO) Unit: Thousand Kip

Estimated Costs to be borne by Chhappan Panchayat Government									
Particulars	Unit	Unit Price	SOW-I		SOW-II		Total		Remarks
			Qty	Amount	Qty	Amount	Qty	Amount	
Items to be covered by the Recipient									
- Site clearance including tree cutting and removal of roots	LS	-	1	21,107.46			1	67,680.50	See Table-A
- Water connection with urban water supply network	sites	1,535.00	0	0.00			1	1,535.00	C-17 only
- Water connection with community water supply network	sites	1,535.00	0	0.00			0	0.00	
- Power connection with low voltage power supply network	sites	1,500.00	3	4,500.00			8	12,000.00	
- Power connection with medium voltage power supply network	sites	128,362.80	2	256,725.60			2	256,725.60	Including 25KVA transformer
- Additional cost for extension of power supply lines (LV/MV)	LS	-	1	41,240.00			1	49,335.00	See Table-B
- Provision of furniture for staff houses and health centers	LS	-	1	56,879.30			1	89,593.20	See Table-C
Total				380,452.36				476,869.39	

Table-A

SITE No.	Name	SOW	Remarks	Site condition/ Work required ¹	Evaluation ²	Area (uf)	Unit rate	Amount
C-01	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-02	Santhou	I	New site	no need grading	o	960	0.66	629.76
C-03	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-04	Vernsay	I	New site	no need grading	o	960	0.66	629.76
C-05	Pathumphon	I	New site	no need grading	o	980	8.69	8,518.16
C-06	HouyNgem	I	New site	no need grading	o	940	0.66	616.64
C-07	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-08	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-09	Salow	I	New site	Access road to be graded	o	940	0.66	616.64
C-10	Banphon	I	New site	no need grading	o	1,020	0.66	669.12
C-11	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-12	Kalao	I	New site	Land to be clear or grading	o	940	8.69	8,170.48
C-13	Pbonthong	I	Village house	no need grading	o	980	0.66	642.88
C-14	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-15	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-16	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-17	Santhou	I	New site	Access road to be graded	o	960	0.66	629.76
C-18	Selabom	I	School land	no need grading	o	948	0.66	621.89
C-20	Nam-om	I	New site	no need grading	o	948	0.66	621.89
SOW1						8,656		21,107.46
SOW2								

Table-B

SITE No.	Name	SOW	Line	Cost of Line Extension				Cost of Pole Installation				Total Amount
				Unit	Qty	U/P	Amount	Unit	Qty	U/P	Amount	
C-06	HonyNgren	I	MV	km	200	65.00	13,000.00	No.	4	2,870.00	11,480.00	24,480.00
C-09	Salow	I	LV	km	80	45.00	3,600.00	No.	2	2,870.00	5,740.00	9,340.00
C-10	Bamphon	I	LV	km	20	45.00	900.00	No.	1	2,870.00	2,870.00	3,770.00
C-20	Nam-orm	I	MV	km	12	65.00	780.00	No.	1	2,870.00	2,870.00	3,650.00
SOW1		I										
SOW2		I										
Sub-total (SOW1)												41,240.00
Sub-total (SOW2)												3,650.00

Table-C

	HC-A	1,660.50	HC-B	1,414.50	HC-B*	1,414.50	SH	21,090.40	Total Amount
SOW1	8	C-04,C-05,C-06,C-10, C-12,C-13,C-18,C-20	1	C-09	0	C-09	2	C-06,C-12,	56,879.30
SOW2									

Estimated Costs to be borne by Salavan Provincial Health Office (PHO)

Unit: Thousand Kip

Particulars	Unit	Unit Price	SOW-I		SOW-II		Total		Remarks
			Qty	Amount	Qty	Amount	Qty	Amount	
Items to be covered by the Recipient									
- Site clearance including tree cutting and removal of roots	LS	-	1	66,409.18			1	78,439.56	See Table-A
- Water connection with urban water supply network	sites	1,535.00	0	0.00			1	1,535.00	S-13 only
- Water connection with community water supply network	sites	1,535.00	0	0.00			1	1,535.00	S-12 only
- Power connection with low voltage power supply network	sites	1,500.00	11	16,500.00			15	22,500.00	
- Power connection with medium voltage power supply network	sites	128,362.80	1	128,362.80			2	256,725.60	Including 25KVA transformer
- Additional cost for extension of power supply lines (LV/MV)	LS	-	1	23,165.00			1	26,935.00	See Table-B
- Provision of furniture for staff houses and health centers	LS	-	1	19,926.00			1	93,160.20	See Table-C
Total				254,362.98				480,830.36	

Table-A

SITE No.	Name	SOW	Remarks	Site condition/ Work required *	Evaluation	Area (m ²)	Unit rate	Amount
S-01	Naxay	I	Same site	no need grading	o	1,012	0.66	663.87
S-02	Bang Oudom	I	New site	no need grading	Δ	1,024	8.69	8,900.61
S-03	Phoukhouang	I	Same site	no need grading	o	968	8.69	8,413.86
S-04	Nadonkhuang	I	New site	Adjacent area to be filled	Δ	968	8.69	8,413.86
S-05	Phakdha	I	Same site	no need grading	o	1,040	0.66	682.24
S-06	Buengay	I	Same site	no need grading	o	980	0.66	642.88
S-07	Phoukhouang	I	Same site	no need grading	o	1,000	0.66	656.00
S-08	Phonsung	I	Same site	no need grading	o	940	8.69	8,170.48
S-09	Lak 90	I	New site	no need grading	Δ	980	8.69	8,518.16
S-10	Nadon Kao	I	New site	no need grading	Δ	1,040	8.69	9,039.68
S-11	Saphat	I	New site	no need grading	Δ	920	8.69	7,996.80
S-12	Phoukhouang	I	Same site	no need grading	o	968	8.69	8,413.86
S-13	Phoukhouang	I	Same site	no need grading	o	968	8.69	8,413.86
S-14	Phoukhouang	I	Same site	no need grading	o	968	8.69	8,413.86
S-15	Phoukhouang	I	Same site	no need grading	o	968	8.69	8,413.86
S-16	Nong Kae	I	New site	site covered mostly by wood, cutting trees and grading is required	x	1,020	19.11	19,488.12
S-17	Dong Nhai	I	New site	no need grading	o	932	0.66	611.39
S-18	Vang Peui	I	New site	no need grading	o	948	0.66	621.89
SOW1						11,884		66,409.18
SOW2								

Table-B

Table-B												
SITE No.	Name	SOW	Line	Cost of Line Extension				Cost of Pole Installation				Total Amount
				Unit	Qty	U/P	Amount	Unit	Qty	U/P	Amount	
S-04	Nadonkhuang	I	MV	lm	20	65.00	1,300.00	No.	1	2,870.00	2,870.00	4,170.00
S-12	Saphat	I	LV	lm	120	45.00	5,400.00	No.	2	2,870.00	5,740.00	11,140.00
S-16	Nong Kae	I	LV	lm	20	45.00	900.00	No.	1	2,870.00	2,870.00	3,770.00
S-18	Vang Peui	I	LV	lm	27	45.00	1,215.00	No.	1	2,870.00	2,870.00	4,085.00
SOW1		I								Sub-total (SOW1)		23,165.00
SOW2										Sub-total (SOW2)		2,870.00

Table-C

	HC-A	1,680.50	HC-B	1,414.50	HC-B*	1,414.50	SH	21,090.40	Total Amount
SOWI	12	S-01,S-02,S-04,S-05,S-06,S-08, S-09,S-10,S-12,S-16,S-17,S-18							19,926.00
SOW2									

(b)

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Estimated Costs to be borne by Sekong Provincial Health Office (PHO)

Unit: Thousand Kip

Particulars	Unit	Unit Price	SOW-I		SOW-II		Total		Remarks
			Qty	Amount	Qty	Amount	Qty	Amount	
Items to be covered by the Recipient									
- Site clearance including tree cutting and removal of roots	LS	-	1	42,527.82			1	59,746.51	See Table-A
- Water connection with urban water supply network	sites	1,535.00	1	1,535.00			1	1,535.00	X-06 only
- Water connection with community water supply network	sites	1,535.00	0	0.00			0	0.00	
- Power connection with low voltage power supply network	sites	1,500.00	4	6,000.00			6	9,000.00	
- Power connection with medium voltage power supply network	sites	128,362.80	0	0.00			0	0.00	Including 25KVA transformer
- Additional cost for extension of power supply lines (LV/MV)	LS	-	1	18,230.00			1	22,000.00	See Table-B
- Provision of furniture for staff houses and health centers	LS	-	1	88,851.10			1	158,272.30	See Table-C
Total				155,608.92		50,580.30		250,553.81	

Table-A

SITE No.	Name	SOW	Remarks	Site condition/ Work required *	Evaluation **	Area (m ²)	Unit rate	Amount
X-02	Datan	I	New site	Remove trees and top soil	Δ	1,000	8.69	8,692.00
X-03	Chalea	I	Same site	Remove trees and top soil	Δ	1,020	8.69	8,865.84
X-04	Paxay	I	New site	Remove trees and top soil	Δ	920	8.69	7,996.64
X-06	Phon	I	Same site	no need grading	o	964	0.66	632.38
X-07	Tanum	I	New site	need cutting small trees and grass, grading is also needed	Δ	980	8.69	8,518.16
X-09	Yup	I	New site	Land to be cleared or graded	Δ	900	8.69	7,822.80
SOW1						5,784		42,527.82

Table-B

SITE No.	Name	SOW	Line	Cost of Line Extension				Cost of Pole Installation				Total Amount
				Unit	Qty	U/P	Amount	Unit	Qty	U/P	Amount	
X-04	Paxay	I	LV	km	50	45.00		No.	1	2,870.00	2,870.00	5,120.00
SOW1		I										18,230.00

Table-C

	HC-A	1,560.50	HC-B	1,414.50	HC-B'	1,414.50	SH	21,090.40	Total Amount
SOW1	1	X-06	1	X-07	1	X-09	4	X-02, X-03, X-04, X-07	88,851.10

Estimated Annual Operation Costs for Attapeau Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Amount	Remarks
Salaries for the additional staff required	4	538.76	25,860	Salary for Primary Nurse
- Allowance for the outreach activities	4	134.69	6,465	Allowed 25% of salaries
Electricity Charge for HC Type A	2	0.34	2,487	10.02kWh/day
Electricity Charge for HC Type B	3	0.34	3,552	9.54kWh/day
Electricity Charge for HC Type B	0	0.34	0	10.02kWh/day
Electricity Charge for Staff House	10	0.34	2,341	1.886kWh/day
Water Rate for City Water Supply	0	1.38	0	4.15m ³ /day
Water Rate for Community Water Supply	0	1.38	0	4.15m ³ /day
Fuel for Motor Cycle	14	10.08	33,869	200/motorcycle/month
Chlorine	3	20.00	21,900	1.0m ³ /day
		(Total)	86,977	

Estimated Maintenance Costs for Facilities for Attapeau Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- External painting	15	5,120	Every 10 years	76,800
- Internal painting incl. doors, built-in furniture	15	10,240	Every 5 years	153,600
- Painting and repairs of doors/ windows	15	2,560	Every 5 years	38,400
- Repairs of roof and cleaning of gutters	15	400	Every 5 years	6,000
- Removal of silt out of septic tank	15	500	Every two years	7,500
- Cleaning of manholes	15	2,000	Every 5 years	30,000
- Changing light bulbs/ tubes	15	320	Every 2 year	4,800
- Periodical maintenance and repairs	6	8,400	Every year	50,400
- Renewal of batteries	6	34,800	Every 5 years	208,800
- Periodical maintenance and repairs	11	235	Every year	2,585
- Renewal of water pump	11	13,300	Every 10 years	146,300

Estimated Maintenance Costs for Equipment for Attapeau Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- Replacement of packing	13	53.30	Every 2 years	693
- Replacement of pipe heater	19	246.00	Every 2 years	4,674
- Tire change	14	24.60	Once a year	344
- Oil change	14	82.00	Once a year	1,148
- Replacement of brake cable	14	615.00	Every 3 years	8,610
- Replacement of V-belt for power transmission device	14	512.50	Every 10,000km	7,175
- Replacement of air cleaner element for power transmission device	14	30.75	Every 20,000km	431
- Replacement of oil filter for engine	14	153.75	Every 15,000km	2,153
- Replacement of air cleaner element for engine	14	41.00	Every 20,000km	574

Estimated Annual Operation Costs for Champasak Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Amount	Remarks
Salaries for the additional staff required	27	598.76	174,558	Salary for Primary Nurse
- Allowance for the outreach activities	27	134.69	43,640	Allowed 25% of salaries
Electricity Charge for HC Type A	15	0.34	18,652	10.02kWh/day
Electricity Charge for HC Type B	1	0.34	1,184	9.54kWh/day
Electricity Charge for HC Type B	0	0.34	0	10.02kWh/day
Electricity Charge for Staff House	3	0.34	702	1.886kWh/day
Water Rate for City Water Supply	1	1.38	2,090	4.15m ³ /day
Water Rate for Community Water Supply	0	1.38	0	4.15m ³ /day
Fuel for Motor Cycle**	19	10.08	45,965	200/motorcycle/month
Chlorine	3	20.00	21,900	1.0m ³ /day
			308,669	

Estimated Maintenance Costs for Facilities for Champasak Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- External painting	19	5,120	Every 10 years	97,280
- Internal painting incl. doors, built-in furniture	19	10,240	Every 5 years	194,560
- Painting and repairs of doors/windows	19	2,560	Every 5 years	48,640
- Repairs of roof and cleaning of gutters	19	400	Every 5 years	7,600
- Removal of scum out of septic tank	19	300	Every two years	9,500
- Cleaning of manholes	19	2,000	Every 5 years	38,000
- Changing light bulbs/ tubes	19	320	Every 2 year	6,080
- Periodical maintenance and repairs	0	8,400	Every year	0
- Renewal of batteries	0	34,800	Every 5 years	0
- Periodical maintenance and repairs	15	235	Every year	3,525
- Renewal of water pump	15	13,300	Every 10 years	199,500

Estimated Maintenance Costs for Equipment for Champasak Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- Replacement of packing	19	53.30	Every 2 years	1,013
- Replacement of pipe heater	19	246.00	Every 2 years	4,574
- Tire change	19	24.60	Once a year	467
- Oil change	19	82.00	Once a year	1,558
- Replacement of brake cable	19	615.00	Every 3 years	11,685
- Replacement of V-belt for power transmission device	19	512.50	Every 10,000km	9,738
- Replacement of air cleaner element for power transmission device	19	30.75	Every 20,000km	584
- Replacement of oil filter for engine	19	153.75	Every 15,000km	2,921
- Replacement of air cleaner element for engine	19	41.00	Every 20,000km	779

Estimated Annual Operation Costs for Salavan Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Amount	Remarks
Salaries for the additional staff required	13	538.76	84,047	Salary for Primary Nurse
- Allowance for the outreach activities	13	134.69	21,012	Allowed 25% of salaries
Electricity Charge for HC Type A	18	0.34	22,383	10.02kWh/day
Electricity Charge for HC Type B	0	0.34	0	9.54kWh/day
Electricity Charge for HC Type B	0	0.34	0	10.02kWh/day
Electricity Charge for Staff House	3	0.34	702	1.886kWh/day
Water Rate for City Water Supply	1	1.38	2,090	4.15m ³ /day
Water Rate for Community Water Supply	1	1.38	2,090	4.15m ³ /day
Fuel for Motor Cycle	12	10.08	29,030	202/motorcycle/month
Chlorine	3	20.00	21,900	1.0m ³ /day

Estimated Maintenance Costs for Facilities for Salavan Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- External painting	21	5,120	Every 10 years	107,520
- Internal painting incl. doors, built-in furniture	21	10,240	Every 5 years	215,040
- Painting and repairs of doors/ windows	21	2,560	Every 5 years	53,760
- Repairs of roof and cleaning of gutters	21	400	Every 5 years	8,400
- Removal of scum out of septic tank	21	500	Every two years	10,500
- Cleaning of manholes	21	2,000	Every 5 years	42,000
- Changing light bulbs/ tubes	21	320	Every 2 year	6,720
- Periodical maintenance and repairs	0	8,400	Every year	0
- Renewal of batteries	0	34,800	Every 5 years	0
- Periodical maintenance and repairs	15	235	Every year	3,525
- Renewal of water pump	15	13,300	Every 10 years	199,500

Estimated Maintenance Costs for Equipment for Salavan Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- Replacement of packing	18	53.30	Every 2 years	959
- Replacement of pipe heater	15	246.00	Every 2 years	3,690
- Tire change	12	24.60	Once a year	295
- Oil change	12	82.00	Once a year	984
- Replacement of brake cable	12	615.00	Every 3 years	7,380
- Replacement of V-belt for power transmission device	12	512.50	Every 10,000km	6,150
- Replacement of air cleaner element for power transmission device	12	30.75	Every 20,000km	369
- Replacement of oil filter for engine	12	153.75	Every 15,000km	1,845
- Replacement of air cleaner element for engine	12	41.00	Every 20,000km	492

Estimated Annual Operation Costs for Sekong Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Amount	Remarks
Salaries for the additional staff required	14	538.76	90,512	Salary for Primary Nurse
- Allowance for the outreach activities	14	134.69	22,628	Allowed 25% of salaries
Electricity Charge for HC Type A	3	0.34	3,730	10.02kWh/day
Electricity Charge for HC Type B	1	0.34	1,184	9.54kWh/day
Electricity Charge for HC Type B	1	0.34	1,243	10.02kWh/day
Electricity Charge for Staff House	9	0.34	2,106	1.886kWh/day
Water Rate for City Water Supply	1	1.38	2,090	4.15m ³ /day
Water Rate for Community Water Supply	0	1.38	0	4.15m ³ /day
Fuel for Motor Cycle	8	10.08	19,354	202/motorcycle/month
Chlorine	1	20.00	7,300	1.0m ³ /day
			150,435	

Estimated Maintenance Costs for Facilities for Sekong Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- External painting	14	5,120	Every 10 years	71,680
- Internal painting incl. doors, built-in furniture	14	10,240	Every 5 years	143,360
- Painting and repairs of doors/ windows	14	2,560	Every 5 years	35,840
- Repairs of roof and cleaning of gutters	14	400	Every 5 years	5,600
- Removal of scum out of septic tank	14	500	Every two years	7,000
- Cleaning of manholes	14	2,000	Every 5 years	28,000
- Changing light bulbs/ tubes	14	320	Every 2 year	4,480
- Periodical maintenance and repairs	3	8,400	Every year	25,200
- Renewal of batteries	3	34,800	Every 5 years	104,400
- Periodical maintenance and repairs	9	235	Every year	2,115
- Renewal of water pump	9	13,300	Every 10 years	119,700

Estimated Maintenance Costs for Equipment for Sekong Provincial Office (PHO)

Unit: Thousand Kip

Particulars of Expenses	Qty	Unit Price	Frequency	Amount
- Replacement of packing	9	53.30	Every 2 years	480
- Replacement of pipe heater	9	246.00	Every 2 years	2,214
- Tire change	8	24.60	Once a year	197
- Oil change	8	82.00	Once a year	656
- Replacement of brake cable	8	615.00	Every 3 years	4,920
- Replacement of V-belt for power transmission device	8	512.50	Every 10,000km	4,100
- Replacement of air cleaner element for power transmission device	8	30.75	Every 20,000km	246
- Replacement of oil filter for engine	8	153.75	Every 15,000km	1,230
- Replacement of air cleaner element for engine	8	41.00	Every 20,000km	328