別冊資料 4

(その他の添付資料)

添付資料 1.	テクニカルコミティ(T/C)議事録	1-1
添付資料 2.	日本側投入	
	2.1 短期専門家派遣実績	2-1
	2.2 施設と機材	2-3
	2.3 カウンターパート研修	2-6
添付資料 3.	キャパシティアセスメント	3-1
添付資料 4.	ラオス国 ESC ガイドライン	4-1
添付資料 5.	ESC ガイドライン適用マニュアル(案)	5-1

添付資料 1. テクニカルコミティ (T/C) 議事録

M/M for the 1st T/C	1-2
M/M for the 2nd T/C	1-16
M/M for the 3rd T/C	1-26
M/M for the 4th T/C	1-45
M/M for the 5th T/C	1-80
M/M for the 6th T/C	1-112
M/M for the 7th T/C	1-125
M/M for the 8th T/C	1-143
M/M for the 9th T/C	1-158

MINUTES OF MEETINGS FOR THE FIRST TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Vientiane, 15th November 2011

Mr. Naofumi SATO

Deputy Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Khampadith KHAMMOUNHEUANG

Chairperson of Technical Committee

Ministry of Natural Resources and Environment

First Technical Committee on the Project

The first technical committee of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 25th and 26th October 2011 at Xayabouri district office. The acting chairperson of technical committee, Mr. Phengkhamla Phonvisai Director of Pollution Control Division of MONRE (hereinafter referred to as MONRE), chaired the meeting.

1. INTRODUCTION

The Short-term JICA Expert Team (SJET) of the Environmental Management Component submitted the following number of copies of the Draft Inception Report (IC/R)on 25th August 2011 to MONRE, Ministry of Planning and Investment, Ministry of Public Works and Transport, Department of Natural Resources and Environment in Luang Prabang, Urban Development Administration Authority in Luang Prabang, Department of Natural Resources and Environment in Xayabouri, and Urban Development Administration Authority in Xayabouri. In addition SJET submitted the following number of copies of the Draft IC/R to technical committee on 25th October 2011.

True of the same	Number of Co	opies submitted
Types of report	25 th August 2011	25th October 2011
1. Draft IC/R (English)	14	14
2. Draft IC/ (Lao)	13	33

Consequently a series of meetings were held from 25th August to 6th September 2011 in Lao P.D.R. to discuss the draft IC/R submitted. A list of officials attending the above meetings is given in Appendix 1. In addition the Technical Committee members discussed the draft IC/R at the first technical committee on 25th and 26th October 2011 in accordance with the agendas of the Technical Committee Meeting (Appendix 2) and have agreed to the following. A list of officials who attended this meeting is given in Appendix 3.

2. ISSUES AND DECISIONS

Various issues were discussed and clarifications on the IC/R were made. Subsequently appropriate consensus on the major items of the IC/R including the Project Design Matrix₀ (PDM₀), the project organization and others were reached during the meetings. These issues, clarifications and consensus are outlined as follows.

2.2 Member of Counterpart (C/P) Team

The Project Manager informed that the following members were appointed as the counterpart (C/P) personnel to the SJET.

Assignment	Name	Position and Organization
Project Manager	Mr. Khampadith KHAMMOUNHEUANG	Deputy Director General of DOE,MONRE
Project Coordinator	Mr. Phengkhamla PHONVISAI	Director of Pollution Control Division, DOE MONRE



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Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
1.1 Collection and Analysis of Basic Environmental Information of Pilot Cities	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Ms. Boutsady Siphilom 2. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE; 1. Mr. Somchaivang Dethoudom 2. Mr. Somkhit Meungpak Vientiane Urban Development and Administration; 1. Mr. Sisouk Thorlatha 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Soulaphon PHILAKHOUN Urban Development Administration Authority Ms.Kaisorn Keopraserth	Department of Natural Resources and Environment of XYB Mr. Kissamone Photiluck
1.2 Collection and Analysis of Laws, Strategies and Action Plans for Environmental Management	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Ms. Boutsady Siphilom: 2. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Somchaivang Dethoudom 2. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Sisouk Thorlatha 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Department of Public Works and Transport of LPB; Mr.Bounpheng Chithaphone	Department of Natural Resources and Environment of XYB Mr. Pounthavy Chanthavong
1.3 Review of the Best Practices of UEM in ASEAN Countries and Analysis of Their Applicability to Laos	Director of Urban Development Division/Departme nt of Housing and Urban Planning/Ministry of Public Works and Transport (MPWT) Mr. Bounthong Keohanam	Department of Natural Resources and Environment of VTE: 1. Ms. Boutsady Siphilom 2. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Somchaivang Dethoudom 2. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Sisouk Thorlatha 2. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Urban Development Administration Authority Ms.Kaisorn Keopraserth	Department of Natural Resources and Environment of XYB Mr. Kissamone Photiluck
1.4 Formulation of the Environment and Development Vision for the Pilot Cities	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Department of Natura Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority Mr.Phoumy Orpethsan Department of Public Works and Transport of LPB: Mr.Bounpheng Chithaphone	Department of Natural Resources and Environment of XYB Mr. Bounthavy Chanthavong
1.5 Formulation of the Cooperation Scenario for the Environment and Development of the Pilot Cities	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Ms. Boutsady Siphilom 2. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Somehaiwang Dethoudom 2. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Sisouk Thorlatha 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority Mr.Phoumy Orpethsa	Works and Transport of XYB: Mr ProuangKham PHILAKET
1.6 Formulation of the ESC Guidelines of Laos	Pollution Control Division. Department of Environmental. MONRE Mr. Vanxay Phiomanyvone Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Ms. Boutsady Siphilom 2. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Somchaivang Dethoudom 2. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Sisouk Thorlatha 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority Mr.Phoumy Orpethsan Department of Public Works and Transport of LPB: Mr.Bounpheng Chithaphone	District vice governor of XYB district Mr. SomNuk Xaynathee Department of Public Works and Transport of XYE: Mr PhouangKham PHILAKET
1.7 Finalization of the ESC Guidelines of Laos and the Preparation of the Manual for the Guidelines	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh





Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
		Mr. Somchaivang Dethoudom Mr. Somkhit Meungpak Vientiane Urban Development and Administration: Mr. Khampie Inthalusa Mr. Kisouk Thorlatha Mr. Kaysone Chanthalath		
2.1 Selection of Pilot Projects for Urban Environmental Management	Director of Urban Development Division/Departme nt of Housing and Urban Planning/Ministry of Public Works and Transport (MPWT) Mr. Bounthong Keohanam	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Department of Public Works and Transport of LPB; Mr.Bounpheng Chithaphone	Department of Public Work and Transport Mr Vilaysak Linthavong Urban Development and Administration Agency: Mr Khamla Khongsap
2.2 Formulation of the Plans for the Pilot Projects	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Vongsavanh THEPHACHANH Department of Natural Resolurces and Environment of Libs Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethsan	Urban Development and Administration Agency: Mr Khamla Khongsap
2.3 Implementation of the Pilot Projects	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Ms. Khamsamai Ondavong	Department of Public Wearks and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Urban Development Administration Authority Ms.Kaisorn Keopraserth	Urban Development and Administration Agency: Mr.Phathanong Sonephan
2.4 Presentation of the Results of the Pilot Projects	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientianeurpar Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority Mr.Phoumy Orpethsan	Urban Development and Administration Agency: Mr.Phathanong Sonephan
3.1 Review of the Best Practices of Community-based UEM in Laos	Directo A. Urban Development Division/Departme nt of Housing and Urban Planning/Ministry of Public Works and Transport (MPWT) Mr. Bounthong Keohanam	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transpot of VTE: 1. Mr. Detamykham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Department of Natural Resources and Environment of LPB Mr. Aloun MANOSANE	District vice governor of XYB district Mr. SomNuk Xaynathee
3.2 Review of the Best Practices of Community-based UEM in A Countries and Analysis of Their Applicability to Laos	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE. Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration:	Department of Public Works and Transport of LPB: Mr.Bounpheng Chithaphone Department of Fublic Works and Transport of Lips. Phoutthasorn Manophat	District vice governor of XYB district Mr. SomNuk Xaynathee

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Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
	_	Mr. Khampie Inthalusa Mr. Sisouk Thorlatha Mr. Kaysono Chanthalath		
3.3 Formulation of the Environmental Education and Awareness Program for SWM Improvement in the three pilot cities	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Mr . Sivanh Khonesan	3. Mr. Kaysone Chanthalath Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan Urban Development Administration Authority Santisouk PHOMMACHANH Urban Development Administration Authority Ms.Kaisorn Keopraserth	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh
3.4 Planning of the EEA Pilot Projects for SWM to Facilitate Activity 2.2	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	3. Mr. Kaysone Chanthalath Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayarath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan Urban Development Administration Authority Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr. SomNuk Xaynathee
3.5 Development of EEA Tools for SWM and Enhancement of the Implementation System	Pollution Control Division, Department of Environmental, MONRE Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Mr. Somchaivang Dethoudom 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Khampien Inthalusa 2. Mr. Sisouk Thorlatha 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh
3.6 Implementation of the EEA Pilot Projects	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE	Urban Development Administration Authority Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Department of Public Work and Transport Mr Vilaysak Linthavong
3.7 Analysis of the Result of the EEA Pilot Project	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan Urban Development Administration Authority Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr. SomNuk Xaynathee
3.8 Presentation of the EEA Pilot Project in Collaboration with Activity 2.4	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone Mr. Sengkeo Tasaketh	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Ms. Boutsady Siphilom 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan Urban Development Administration Authority Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh

The SJET acknowledged the appointment.





2.3 Members of Technical Committee (TC)

The SJET explained that the TC should be organized both in central and local level, and requested the Lao side to appoint the member of the following TCs. The MONRE replied that the following members were appointed as the member of the TCs:

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Chairperson	Deputy Director General of DOE,MONRE Mr. Khampadith KHAMMOUNHEUANG	Department of Natural Resources and Environment of XYB Dr. Bagng on Sayarath	Department of Natural Resources and Environment of LPB Chantovong Phonnachit	Department of Natural Resources and Environment of XYB Mr. Bounthavy Chanthavong
Member	Director of Pollution Control Division, DOE MONRE Phengkhamla Phonvisai	Department of Public Works and Transport of VTE Mr. Dethsongkham THAMMAVONG	Department of Natural Resources and Environment of LPB Sackdaphone Keoprachan	District vice governor of XYB district Mr. SomNuk Xaynathee
Member	Planning/Ministry of Public Works and Transport Bounthong Keohanam	Department of Public Works and Transport of VTE Mr. Oudone NGENGVANNAVONG	Department of Public Works and Transport of LPB: Bounpheng Chithaphone	Urban Development and Administration Agency of XYB: Mr Bounkhong Phongsavanh
Member	Pollution Control Division, Department of Environmental, MONRE Mr. Vanxay Phiomanyvone	Vientiane Urban Development and Administration: Nousone Meamviset	Department of Public Works and Transport of LPB: Phouttasorn Manophat	Department of Public Works and Transport of XYB: Mr PhouangKham PHILAKET
Member	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Mr. Sengkeo Tasaketh	Department of Public Works and Transport of VTE: Somkhit Moungpack	Urban Development and Administration Agency of LPB Phumy Orpethsan	Urban Development and Administration Agency of XYB: Mr.Phathanong Sonephan
Member	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Noudeng Vongdala	Department of Natural Resources and Environment of VTE: Vilavong KENSOULINE	Urban Development and Administration Agency of LPB Kaisone Keopraserth	Department of Natural Resources and Environment of XYB Mr. Kissamone Photiluck
Member	Technical Staff of Pollution Control Division, Department of Environmental, MONRE Sivanh Khonesan	Vientiane Urban Development and Administration: Chanthalath		Department of Public Work and Transport of XYB Mr Vilaysak Linthavong
Member		Vientiane Urban Development and Administration: Sisouk Tholatha		Urban Development and Administration Agency of XYB: Mr Khamla Khongsap
Member		Department of Natural Resources and Environment of VTE: Ms. Boutsady SIPHILOM		
Member		Department of Public Works and Transport of VTE: Somchaivang DETH OUDOM		

The SJET acknowledged the appointment.

2.4 Project Design Matrix (PDM₀)

Various discussions were held regarding the indicators and activities of PDM among the project team (SJET and C/P) and changes are presented to TC members. As a result, the project design matrix as PDM_0 (Appendix 4) has been approved by TC members.

2.5 Target Area of the Project

The chairperson of TC clarified that the target cities of the Project are Vientiane Capital, Luang Prabang district and Xayabouri district, registered as ESC of AIESC in Laos and their target areas are shown in the table below.

Target Pilot Sites	Number of District (Muan)	Number of Village (Ban)
Vientiane Capital	9 Districts (Urban 4, Rural 5)	490 Bans (Urban 180, Rural 310)
Luang Prabang district	1 District	117 Bans (Urban 63, Rural 54)
Xayabouri district	1 District	83 Bans (Urban 25, Rural 58)



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2.6 Addition of Pilot Project Site at Xayabouri district

The technical committee requested to add Xayabouri district as the pilot project site.

SJET acknowledged adding the planning and the implementation of pilot project at Xayabouri district and conveyed the request to Japan International Cooperation Agency (JICA).

2.7 Addition of Study Infectious Waste Project

The technical committee requested to add the study of the infectious waste generated from hospitals in pilot project sites to improve the issues.

SJET acknowledged adding the study of the medical infectious waste issues in the pilot project sites and planning and conveyed the request to JICA.

2.8 Comments on Inception Report (IC/R)

Based on the intensive and technical discussions from 25th August to 6th September 2011 and at the first technical committee on 25th and 26th October 2011, the draft IC/R was revised with above clarifications and modifications.

3. CONCLUSION

Following the intensive and technical discussions among participants made at the meetings from 25th August to 6th September 2011 and at the first technical committee on 25th and 26th October 2011, the IC/R with the above clarifications and modifications was fully approved by the both sides.



ATTENDANT LIST FOR DISCUSSION ON IC/R

<Lao Side>

"Central Government"

Ministry of Natural Resources and Environment

Mr. Khampadith KHAMMOUNHEUANG Deputy Director General of Environmental

Department, Ministry of Natural Resources and

Environment (MONRE)

Mr. Phengkhamla PHONVISAI Director of Pollution Control Division.

Department of Environment, MONRE

Technical Staff of Pollution Control Division, Mr. Sengkeo TASAKETH

Department of Environment, MONRE

Ministry of Planning and Investment

Mr. Khamlien PHOLSENA Director General of Planning Department,

Ministry of Planning and Investment (MPI)

Mrs. Phonevanh OUTHAVONG Deputy Director General of Planning

Department, MPI

Ministry of Public Works and Transport

Deputy Director General of Department of Housing and Urban Planning, Ministry of Public Works and Transport (MPWT) Mr. Noupheuak VIRABOUTH

Director of Division of Urban development, Mr. Bounthong KEOHANAM

Department of Housing and Urban Planning, Ministry of Public Works and Transport

(MPWT)

"Vientiane Capital city"

Department of Natural Resources and Environment

Ms. Bangon XAYALATH Deputy Director of Department of Natural

Resources and Environment (DONRE)

Mr. Vliavong KENSOULINE Technical Department of Natural Resources and

Environment (DONRE)

Department of Public Works and Transport (DPWT)

Mr. Dathsongkham THAMMAVONG Deputy Director of Department of Public Works

and Transport (DPWT)

Technical of Department of Public Works and Mr. Somekis MOUNGPACK

Transport (DPWT)

Vientiane Urban Development and Administration Authority

Mr.Sisouk THORATHA Director of Environment Unite (VUDAA)

Mr. Kaisone Chanthalath Technical (VUDAA)

"Luang Prapang"

Department of Natural Resources and Environment

Mr. Chanthavong PHONNACHIT Director of Department of Natural Resources

and Environment (DONRE)

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Mr. Sackdaphone KEOPRACHAN

Technical of Department of Natural Resources

and Environment (DONRE)

Office public Works and Transport of District LPB

Mr Bounphung CHITTHAPHONE

Director of Office Public Works and Transport

District (OPWT)

Mr. Phoudthasone MANOPHATH

Technical of Environment Unit, Office Public

Works and Transport District (DPWT)

Luang Prabang Urban Development and Administration Authority

Mr. Hpoume ORPHETHSAN

Deputy of President of (UDAA)

Ms. Kaisone KEOPASEUD

Director of Waste Management Unit (UDAA)

"Xayabouri"

Department of Natural Resources and Environment

Mr. Bounthavy Chanthavong

Director of Department of Natural Resources

and Environment (DONRE)

Ms. Khamphew PHANTHAVONG

Deputy Technical of Department of Natural

Resources and Environment (DONRE)

Department of Public Works and Transport

Mr. Phouangkham PHILAKETH

Director of Office Public Works and Transport

Mr. Bounnane NHONGVONGSITHI Chief of Housing & Urban Development

Xayabouri Urban Development and Administration Authority

Mr. Bounkhong PHONGSAVANH

President of (UDAA)

Mr. Khamla Khongsap

Technical of Waste Management Unit (UDAA)

<Japanese Side>

Short-term JICA Expert Team

Mr. Susumu SHIMURA

Team Leader/

Environmental Urban

Management

Mr. Naofumi SATO

Ms. Noriko OTSUKI

Deputy Team Leader/

Mr. Kanehiro MORISHITA

Water Environment Management

Community-based

Environmental

Management (1)/Environmental Education

Mr. Shinya KAWADA

Baseline Survey on Urban Environmental

Urban

Management

JICA Lao Office

Ms. Yuko HATTORI

Ms. Monlatda CHANTHAVONG

Representative, Infrastructure Sector

Assitant Program Officer

The First Technical Committee Meeting on 25th and 26th October 2011

The Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration

Agenda

Date and Time	Subject	Responsibility
25/10/11		
8:30 - 12:00	Visit the Governor of Xayaburi	DONRE, Xayaburi
13:00 - 13:30	Register	All
13:30 - 13:45	Open Remark	Governor of Xayaburi District
13:45 - 14:00	Introduction Remark	Deputy General Director of DOE
14:00 - 15:00	Draft of LPP Inception Report and MM	JICA Team Expert
15:00 - 16:00	Group Discussion (3 pilot city)	Vientiane, Luang Prabang and
		Xayaburi
16:00	Close for day 1	Coordinator
<u>26/10/11</u>		
8:00 - 8:30	Register	All
8:30 -9:15	Group Presentation Vientiane Capital	Vientiane Capital Team
9:15 - 10:00	Group Presentation Luang Prabang	Luang Prabang Team
10:00 - 10: 15	Coffee Back	All
10:15 - 11:00	Group Presentation Xayaburi	Xayaburi Team
11:00 - 11:30	Summary of Workshop	JICA Expert Team
11:45 - 12:00	Closing	Deputy General Director of DOE

Attachment 1: Inception Report

Attachment 2: PDM₀

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Appendix 3 Attendant List on the First Technical Committee meeting on 25th and 26th October 2011.

No.	Name	Organization	Title
1	Mr. Phengkhamla Phonvisai	Central Government	Director of Pollution Control Division, Department of Environmental, MONRE
2	Mr. Bounthong Keohanam	Central Government	Director of Urban Development Division/Department of Housing and Urban Planning/Ministry of Public Works and Transport
3	Mr. Vanxay Phiomanyvone	Central Government	Technical Staff of Pollution Control Division, Department of Environmental, MONRE
4	Mr. Sengkeo Tasaketh	Central Government	Technical Staff of Pollution Control Division, Department of Environmental, MONRE
5	Mr .Noudeng Vongdala	Central Government	Technical Staff of Pollution Control Division, Department of Environmental, MONRE
6	Mr . Sivanh Khonesan	Central Government	Technical Staff of Pollution Control Division, Department of Environmental, MONRE
7	Mr. Oudone Ngengvannavong	(VTE)	Deputy Director of Department of VTE Department of Public Work and Transport
8	Mr . Vilavong KENSOULINE	(VTE)	Technical Department of Natural Resources and Environment
9	Mr . Somchaivang Dethoudom	(VTE)	Technical staff of VTE Department of Public Work and Transport
10	Mr . Sisouk Tholatha	(VTE)	Director of Environment Unit (VUDAA)
11	Mr . Kaisone Chanthalath	(VTE)	Technical of Environment Unit (VUDAA)
12	Ms . Budsadee Siphilom	(VTE)	Technical staff of Department of Natural Resources and Environment
13	Mr. Chanthavong Phonnachit	(LPB)	Director of (DONRE)
14	Mr. Sackdaphone Keoprachan	(LPB)	Technical staff of (DONRE)
15	Mr. Bounpheng Chithaphone	(LPB)	Director of Office Public works and Transport LPB
16	Mr. Phouthasone Manophat	(LPB)	Technical Staff of District Public Work and Transport
17	Mr. Phumy Orpethsan	(LPB)	Vice President of Luang Prabang District and Vice UDAA President
18	Ms. Kaisone Keopraserth	(LPB)	Head of the SWM Unit of UDAA
19	Mr. Bounthavy Chanthavong	(XYB)	Director of Xayabouri DONRA
20	Mr. Bounkhong Phongsavanh	(XYB)	President of UDAA
21	Mr. Bounmathao Xong	(XYB)	Deputy Head Unit of UDDA
22	Mr. Phathanong Sonephan	(XYB)	Deputy Director of Cabinet Office of UDDA
23	Mr. Kissamone Photiluck	(XYB)	Technical Staff of DONRE
24	Mr. Vilysack Linthavong	(XYB)	Technical Staff of Public Work and Transport
25	Mr. Khamla Khongsap	(XYB)	Technical Staff of UDAA
26	Mr. Thonglane Pheuphom	(XYB)	Vice President of UDDA
27	Ms. Bounphak Inthapanya	(XYB)	Governor of District
28	Mr. Sengaloun Lucksivy	(XYB)	Deputy Head of Planning Office
29	Mr. Yoshinori Yonesato	LPP office	Project coordinator
30	Ms.Malakhone Sonethavong	LPP office	Project Assistant Officer
31`	Naofumi SATO	LPP env.	Deputy Team Leader/Intermediate Treatment/Final Disposal
32	Sayamang Nanthanavone	LPP env.	Consultant
33	Bounheuang Phanthasith	LPP env.	Consultant





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1-13

Project Design Matrix (PDM₀)

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, Luang Prabang District and Xayabouri District)

Period: August 2011-October 2015

Ver. 1 PDM₀ 25th&26thOctober 2011

Narrarive Summary	Objectively verifiable indicators	Means of verification	Important assumptions
Project purpose Promotion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines and its Manual are disseminated.	The number of seminars/workshops held to disseminate the ESC Guidelines and its Manual, and the number of participating cities. Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. The number of cities newly registered as ESC.	
Outputs 1 The Guidelines on ESC is formulated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated.	Formulated ESC Guidelines	1. Environmental policy of the Lao Government is not
Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	(In each pilot site) To be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2)	Same as on the left	drastically changed.
3 Community-based urban environmental management for SWM is promoted in the three pilot cities.	EEA Program for SWM improvement in the three pilot cities is formulated. The extent of community participation in the pilot projects (to be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2)).	Formulated EEA program Same as on the left	
Activities	Inputs		
Basic environmental information of pilot cities are collected and analyzed	<pre><from laos=""> 1. Counterpart personnel from the</from></pre>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	 Team leader/urban environmental management 	equipment and fuels is not drastically





 The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed. The environment and development visions for the pilot cities are formulated. The cooperation scenario for the environment and development of the pilot cities are formulated. (*1) The ESC Guidelines of Laos are formulated. The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared. The pilot projects for urban environmental management are selected. (*2) The pilot projects are planned. The pilot projects are implemented. The results of the pilot projects are presented. The best practices of community-based UEM in Laos are reviewed. The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability to Laos is analyzed. The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated. The EEA pilot projects to facilitate Activity 2.2 are planned. EEA Tools for SWM are developed and the implementation system is enhanced. The EEA pilot projects are implemented. The EEA pilot projects are implemented. The EEA pilot projects are implemented. The EEA pilot projects are presented in collaboration 			
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3.8 The EEA pilot projects are presented in collaboration	3.7	The results of the EEA pilot project are analyzed.	
	3.8		
with Activity 2.4		with Activity 2.4	

- MPWT
- Local offices of MONRE and MPWT
- UDAAs (VUDAA) in pilot cities
- Other relevant organizations
- 2. Facilities
- Offices for experts in Vientiane and pilot cities
- Utilities such as electricity, water, sewerage, telephone, etc. of the offices.
- Data and information
- 3. Operation cost

- Deputy team leader/intermediate treatment/final disposal
- Water environment management
- Waste collection and transport
- Community-based urban environmental management (1)/environmental education
- Community-based urban environmental management (2)/pilot project
- Baseline survey on urban environmental management
- 2. Cost of necessary survey
- 3. Provision of equipment if necessary
- 4. Support for operation cost
- 5. Training opportunity in Japan and/or ASEAN countries

<From ASEAN as expected>

- 1. Experts to be dispatched on demand
- 2. Consultation and joint activities (study tour, data and information)
- 3. Training opportunity in ASEAN countries (cost sharing with JICA)
- 4. Support for resource mobilization

increased.

3. Security is maintained in the pilot cities.

Pre-conditions

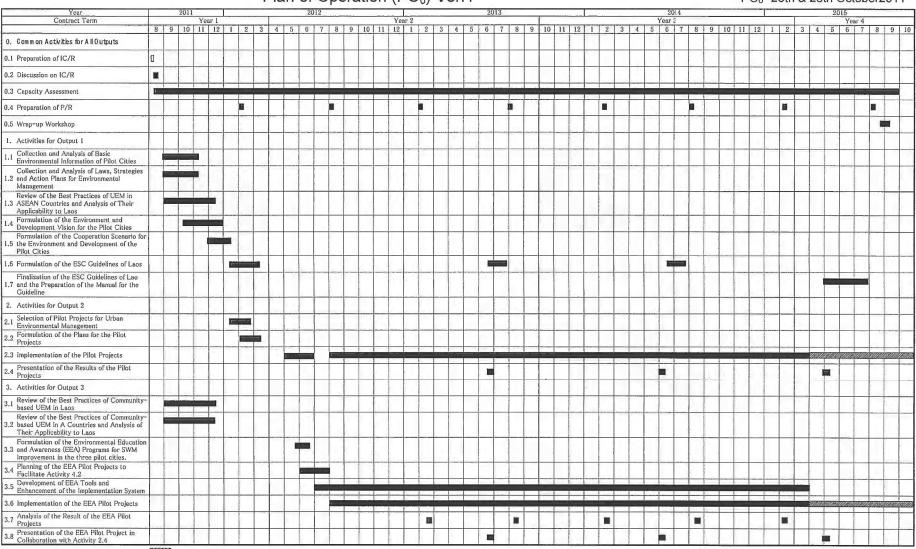
All relevant personnel participates the project.

- (*1) Scenarios are to be formulated for SWM in Vientiane Capital, SWM in Luang Prabang District, SWM in Xayabouri District and water environment management in Vientiane Capital.
- (*2) Pilot projects are to be implemented for the improvement of SWM in Vientiane Capital, Luang Prabang District and Xayabouri District.



Plan of Operation (PO₀) Ver.1

PO₀ 25th & 26th October2011



Activities to be continured only by the counterparts.





MINUTES OF MEETINGS FOR THE SECOND TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Vientiane, 13thMarch 2012

Mr. Susumu SHIMURA

Leader of Short-term JICA Expert Team

for Environmental Component of LPP

Mr. Khampadith KHAMMOUNHEUANG

Chairperson of Technical Committee

Ministry of Natural Resources and Environment

The Second Technical Committee on the Project

The second technical committee of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 2nd March 2012 at conference room of Luang Prabang Provincial Agriculture and Forestry. The acting chairperson of technical committee, Mr. Vongsavanh THEPPHACHANH, governor of Luang Prabang district, chaired the meeting.

1. INTRODUCTION

The Short-term JICA Expert Team (SJET) of the Project submitted the following number of copies of the Draft Progress Report (1) (P/R(1)) and Supplements 1, 2, 3 and 4 on 2nd March 2012 to MONRE and other organizations listed in the table below.

Types of report		Number of	Copies sub	mitted	
,, , ,	Draft P/K1	Sur		pplements	
Organization	(English)	No.1	No.2	No.3	No.4
Central government					
Ministry of Natural Resource and Environment (MONRE)	1	1	1	1	1
Ministry of Planning and Investment (MPI)	1	1	1	1	1
3) Ministry of Public Works and Transport (MPWT)	1	1	1	1	1
Vientiane Capital					
4) Vientiane Urban Development Administration Authority (VUDAA)	1	1	1	1	1
5) Department of Natural Resources and Environment (DONRE)	1	1	1	1	1
Department of Public Works and Transport (DPWT)	1	1	1	1	1
Luang Prabang district					
7) DONRE	1	1	1	1	1
8) Urban Development Administration Authority (UDAA)	1	1	1	1	1
9) DPWT in Luang Prabang	1	1	1	1	1
Xayabouri district					
10) DONRE	1	1	1	1	1
11) UDAA	1	1	1	1	1
12) DPWT	1	1	1	_1_	1
	12	12	12	12	12

Supplements 1, 2 and 3 are Baseline Survey Result, draft Vision for ESC and draft Action Plan (A/P) of Vientiane capital, Luang Prabang district and Xayabouri district. Draft A/Ps of Vientiane capital are for solid waste management (SWM) and water environment management (WEM), while A/Ps of Luang Prabang district and Xayabouri district are for SWM. Supplement 4 contains Draft National ESC guideline.

The Technical Committee (TC) members discussed the draft P/R(1) and its supplements and supplement4 at the second technical committee on 2nd March 2012 in accordance with the agendas of the Technical Committee Meeting (Appendix 1)

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and agreed to the following. A list of officials who attended this meeting is given in Appendix 2.

2. ISSUES AND DECISIONS

Various issues were discussed and clarifications on the P/R(1) and its supplements were made. Subsequently appropriate consensus on the major items of the P/R(1) and all the supplements including the Project Design Matrix₁ (PDM₁) and Plan of Operation (PO₁), the project organization and others were reached during the meeting. These issues, clarifications and consensus are outlined as follows.

2.2 The PDM₀ and PO₀ are revised to PDM₁ and PO₁

 PDM_0 (Appendix 3) and PO_0 (Appendix 4) are revised to PDM_1 and PO_1 by amending them as follows.

- Output 1 "Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC." is changed to "As part of urban environmental management (UEM), solid waste management (SWM) in the three pilot cities is improved based on the Guidelines on ESC."
- ✓ The term of Activity 1.4 "The environment and development visions for the pilot cities" is changed to "The visions for ESC of the pilot cities"
- ✓ A term "cooperation scenario" is changed to "action Plan".
- ✓ Activity 1.6 "The ESC Guidelines of Laos are formulated" will be implemented throughout the 2nd and 3rd project years as the guidelines needed to be continuously reviewed and disseminated.
- ✓ Activity 1.4 and Activity 1.5 will be implemented in the 2nd year in order to finalize the vision and the action plan.
- ✓ In the "Input from Japan", an expert of healthcare waste management is added.

Based on the various discussions made regarding the PDM₀ and PO₀ by the SJET and Counterpart(C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM₁ and PO₁ were approved by TC members.

2.3 The draft of ESC Guidelines

Various discussions were held regarding the draft of ESC Guidelines among the project team (SJET and C/P) and the draft of ESC Guidelines was presented to TC members. As a result, the draft of ESC Guidelines has been approved by TC members.

2.4 The draft of Vision and Action Plan of Vientiane capital, Luang Prabang district and Xayabouri district

Various discussions were held regarding the draft of Vision and Action Plan of Vientiane capital, Luang Prabang district and Xayabouri district among the project team (SJET and C/P) and the draft of Vision and Action Plan of Vientiane capital, Luang Prabang district and Xayabouri district were presented to TC members. As a result, the draft of Vision and Action Plan of Vientiane capital, Luang Prabang

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district and Xayabouri district have been approved by TC members.

2.3 The review of the Lao language version of the Vision, Action Plans and ESC Guidelines

Various discussions were held regarding the review of the Lao language version of the Visions, Action Plans and Draft ESC Guidelines among the project team (SJET and C/P) and the schedule of revision are presented to TC members as below.

- ✓ Visions and Action Plans of Lao language version are to be finalized by the 3rd Technical Committee.
- ✓ Draft ESC Guidelines of Lao language version is to be revised prior to the dissemination activity in the 2nd project year.

As a result, the schedule of revision of the Lao language version of the Vision, Action Plans and Draft ESC Guidelines has been approved by TC members.

2.8 Comments on Progress Report (1) and Supplements 1, 2, 3 and 4

The comments on P/R(1) and Supplements 1, 2, 3 and 4 including Baseline Survey Result, draft Vision for ESC and Draft Action Plans for SWM and WEM in Vientiane capital, Luang Prabang district, Xayabouri district and Draft National ESC guidelines were collected by 8 March 2012 and the finalized P/R(1), and Supplements 1, 2, 3 and 4 were handed in by 12 March to MONRE.

3. CONCLUSION

Following the intensive and technical discussions among participants made at the second technical committee on 2nd March 2012, the P/R(1) and Supplement 1, Supplement 2, Supplement 3 and Supplement 4 with the above clarifications and modifications were fully approved by the both sides.



The Second Technical Committee Meeting on 2nd March 2012

The Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration

Agenda

Date and Time	Subject	Responsibility
2/3/2012		
8:00 - 8:30	Register	All
8:30 - 9:00	Open Remark	Governor of Luang Prabang District PCD & JICA LPP project coordinator
9:00 - 10:00	Reporting of the project progress	PCD, MONRE
10:00 - 10:30	Coffee Break	All
10:30 - 11:30	Overall schedule of project and proposal of amended PDM & PO	Short-term JICA Expert(SJET)
11:30 - 12:00	Discussion	All
13:30 - 14:30	Action Plan	Vientiane, Luang Prabang and Xayabouri Coordinator
14:30 - 14:45	Coffee Break	All
14:45 – 15:30 15:30 – 16:00	Draft of National ESC Guideline Discussion	Short-term JICA Expert(SJET) All
16:00	Closure	LPB District Governor

Attachment 1: Inception Report

Attachment 2: PDM₀

En A

No	Name and Surname	Organization	Position
I	. Central and Experts		* * * * * * * * * * * * * * * * * * *
1	Mr. Susumu Shimura	LPPE	Team leader and expert
2	Mr. Kanehiro MORISHITA	LPPE	Expert
3	Mr. Naofumi SATO	LPPE	Vice-team leader and expert
4	Mr. Phengkhamla PHONVISAI	PCD, MONRE	Director
5	Mr. Phouthone KINGSADA	LPPE	Project Assistant
6	Mr. Virachit DUANGCHANH	MPWT	Staff
7	Dr. Sayamang NANTHANAVONE	LPPE	Project Assistant
8	Mr. Bounheuang PHANTHASUTH	LPPE	Project Assistant
9	Mr. Sengkeo TASAKETH	PCD, MONRE	Staff
10	Mr. Noudeng VONGDALA	PCD, MONRE	Staff
11	Miss. Chantha INTA	PCD, MONRE	Training Student
12	Miss. Souphalin SOULIYAVONG	PCD, MONRE	Training Student
13	Mr. Jonny	PCD, MONRE	Training Student
14	Mr. Kingthong	PCD, MONRE	Training Student
15	Mr. Pathoumphone		
16	Mr. Soukpasong		
17	Mr. Sisavath PHOUTTHISONE	DONRE, XYB	
18	Mr. Bounneung NOUTPATHONG	MONRE	Vice-general director
and I	II. Luang Prabang District	ν	
1	Mr. Somdy SIPASETH	Land-use Management	Vice-Director
2	Mr. Anda YANGSENXAY	World Heritage Department	Director
3	Ms. Vandy SISOUPHANH	Gender Promotion Office	Director
4	Mr. Khamsavanh THONGSOUK	UDAA	Staff
5	Mr. Bounchan PANFONGPHET	Lao Youth Union	Director
6	Mr. Khamphengphet	Department of Police	Vice-Director
7	Mr. Thongvanh SISOUPHANH	District Education Department	Director
8	Mr. Bounpheng SOUKSITTHI	Provincial Agriculture and Forestry	Vice-Head of office
9	Ms. Kaisone KEOPASETH	UDAA	Head of Solid waste Management Section
10	Mr. Soulaphon PHILAKOUN	DONRE, LPB	Vice-Director
11	Mr. Phaisanith PANYASAVATH	Provincial Education Department	Staff
12	Mr. Soulixay HONGSAKHONE	Department of Industrial and Commerce	Vice-Head
13	Mr. Padith THAMMAVONGSAVANH	UDAA	Vice-Head
14	Mr. Vongsavanh THEPPHACHANH	District governor of LPB	
15	Mr. Atsana CHITTAPHONE	Provincial Administration Office of LPB	General Director
16	Mr. Daovanh SIRIVONG	UDAA	Head of Engineering section



17	Mr. Vilahong XAYASITH	District Police Department of LPB	Director
18	Ms. Phimphone MALY	Non-Formal Education of LPB Province	Head
19	Mr. Vanhpheng ITTHIPHON	Department of Information and Culture	Director
20	Mr. Phouthasone MANOUPHATH	DPWT, LPB	Staff
21	Ms. BuaNgemg INHAVONG	Women Union of LPB province	Staff
22	Mr. Sithalon SIPHOXAY	Department of Planning and Investment	Staff
23	Mr. Phoumy ORPHETSAN	UDAA	Vice-President and Vice-District governor
24	Mr. Bounlamai MALY	DONRE, LPB	Staff
25	Mr. Sackdaphone KEOPHACHANH	DONRE, LPB	Staff
26	Ms. Chit-Amphone KEOMANY	DONRE, LPB	Staff
27	Mr. Keonakhone SIHALATH	Committee of Women Strengthened Office	Head
28	Miss. Pavina	DONRE, LPB	Staff
29	Mr. Pava	DONRE, LPB	Staff
30	Mr. Alune MANOSAN	DONRE, LPB	Staff
	III. Vientiane Capital		
1	Mr. Sisouk THORATHA	VUDAA	Head
2	Mr. Kaison CHANTHALATH	VUDAA	Staff
3	Mr. Vilavong KHENSOULIN	DONRE, VTE	Staff
4	Mr. Vilasak VAENPASETH	DONRE, VTE	Staff
5	Mr. Sivanh KHONESAVANH	PCD, MONRE	Staff
6	Mr. Someboun	VUDAA	Staff
7	Mr. Aliyasak TOULALOME	DPWT, VTE	Staff
8	Miss. Someteo	DONRE, LPB	Staff
9	Miss. Souphavanh	DONRE, LPB	Staff
10	Miss. Duangchai	DONRE, LPB	Staff
11	Mr. Veuyang	DONRE, LPB	Staff
12	Mr. Soubanhdith	DONRE, LPB	Staff
13	Miss. Anousone	DONRE, LPB	Staff
14_	Miss. Kaison	DONRE, LPB	Staff
	IV. XAYABOURI District		
1	Miss. Khampeiw PHANTHAVONG	DONRE, XYB	Vice-Director
2	Mr. Somnuk SAINATHY	Vice-District governor of XYB	
3	Mr. Bounkhong VONGSAVANH	UDAA	Director
4	Mr. Khamla KONGSAB	UDAA	Staff
5	Mr. Phatthanong SONPHANH	UDAA	Staff
6	Mr. Vilaysak LINTHAVONG	DPWT, XYB	Staff
7	Mr. Khitsamone PHOTHILAK	DONRE, XYB	Staff
8	Mr. Phetbandith	DONRE, LPB	Staff

1-23

Project Design Matrix (PDM₁)

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, Luang Prabang District and Xayabouri District)

Period: August 2011-October 2015

Ver. 1 2 March 2012

Narrarive Summary		Objectively verifiable indicators	Means of verification	Important assumptions
	ect purpose notion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines and its Manual are disseminated.	The number of seminars/workshops held to disseminate the ESC Guidelines and its Manual, and the number of participating cities. Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. The number of cities newly registered as ESC.	
Out _l	The Guidelines on ESC is formulated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated.	Formulated ESC Guidelines	Environmental policy of the Lao Government is not
2	As part of urban environmental management (UEM), solid waste management (SWM) in the three pilot cities is improved based on the Guidelines on ESC.	(In each pilot site) To be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2)	Same as on the left	drastically changed.
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	EEA Program for SWM improvement in the three pilot cities is formulated. The extent of community participation in the pilot projects (to be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2)).	Formulated EEA program Same as on the left	
Acti 1.1	vities Basic environmental information of pilot cities are collected and analyzed	Inputs <from laos=""> 1. Counterpart personnel from the</from>	<pre><from japan=""> 1. Experts of the following specialities</from></pre>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	 Team leader/urban environmental management 	equipment and fuels is not drastically



3.5 3.6 3.7	ASEAN Countries are reviewed and their applicability to Laos is analyzed. The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated. The EEA pilot projects to facilitate Activity 2.2 are planned. EEA Tools for SWM are developed and the implementation system is enhanced. The EEA pilot projects are implemented. The results of the EEA pilot project are analyzed.	 MPWT Local offices of MONRE and MPWT UDAAs (VUDAA) in pilot cities Other relevant organizations 2. Facilities Offices for experts in Vientiane and pilot cities Utilities such as electricity, water, sewerage, telephone, etc. of the offices. Data and information 3. Operation cost	 Deputy team leader/intermediate treatment/final disposal Water environment management Waste collection and transport Community-based urban environmental management (1)/environmental education Community-based urban environmental management (2)/pilot project Baseline survey on urban environmental management Healthcare Waste Management Cost of necessary survey Provision of equipment if necessary Support for operation cost Training opportunity in Japan and/or ASEAN countries <from as="" asean="" expected=""></from> Experts to be dispatched on demand Consultation and joint activities (study tour, data and information) Training opportunity in ASEAN countries (cost sharing with JICA) Support for resource mobilization 	increased. 3. Security is maintained in the pilot cities. Pre-conditions All relevant personnel participates the project.
3.8	The EEA pilot projects are presented in collaboration with Activity 2.4			

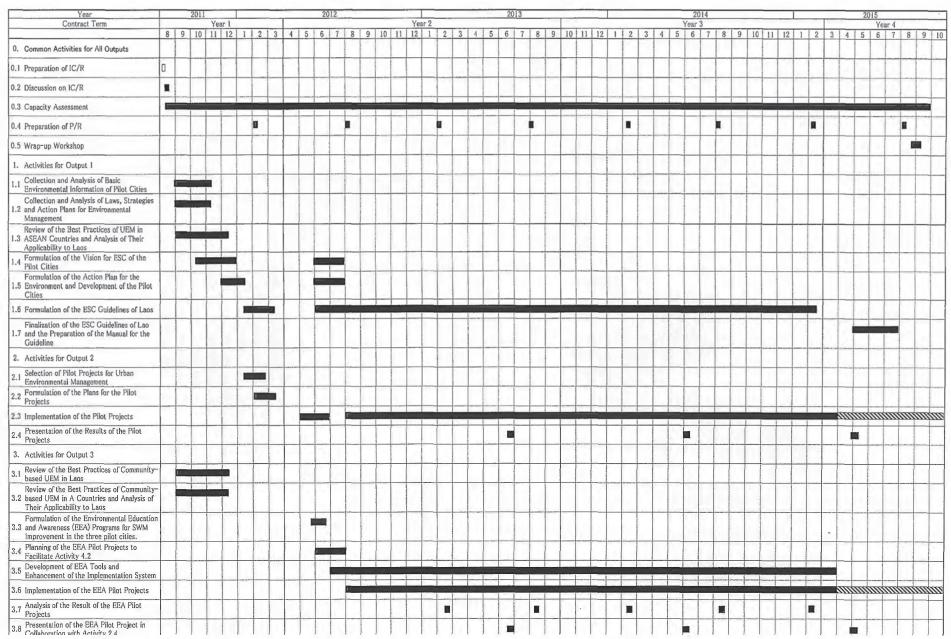
^(*1) Action plans are to be formulated for SWM in Vientiane Capital, SWM in Luang Prabang District, SWM in Xayabouri District and water environment management in Vientiane Capital.

^(*2) Pilot projects are to be implemented for the improvement of SWM in Vientiane Capital, Luang Prabang District and Xayabouri District.





Plan of Operation (PO₁) Ver.1



MINUTES OF MEETINGS FOR THE THIRD TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Vientiane, 31st August 2012

Mr. Naofumi SATO

Deputy Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Phengkhamla PHONVISAI

Chairperson of Technical Committee

Ministry of Natural Resources and Environment

The Third Technical Committee on the Project

The third technical committee of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 31st August 2012 at Vientiane Urban Development and Administration Authority (VUDAA) office. The chairperson of technical committee, Mr. Phengkhamla PHONVISAI Director of Regulation and Information Division, Pollution Control Depart of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The third technical committee was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 Amendment of Member of Counterpart (C/P) Team

The Project Manager informed that the appointments of following members as the counterpart (C/P) personnel were amended in accordance with personal changes by August 2012.

Assignment	Name	Position and Organization
Project Manager	Mr. Phengkhamla PHONVISAI	Director of Regulation and Information Division, DoPC, MONRE
Project Coordinator	Mr. Vanxay PHIOMANYVONE	Acting Director of Pollution Control Division, DoPC MONRE

Table1: Amended Member of Counterpart (C/P) Team

Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
1.4 Formulation of the Environment and Development Vision for the Pilot Cities	Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Tharmmavong 3. Mr. Vilavong Kensouline Department of Public Works and Transport of VTE: 1. Mr. Dethsongkham Thammavong 2. Mr. Oudone Ngengvarnavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority Mr.Phoumy Orpethsan Department of Public Works and Transport of LPB: Mr.Bounpheng Chithaphone	Department of Natural Resources and Environment of XYB Ms. Khamphew Phanthavong
1.5 Formulation of the Cooperation Scenario for the Environment and Development of the Pilot Cities	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Mr. Vilavong KENSOULINE 2. Mrs. Khamla Thammavong Department of Public Works and Transport of VTE: 1. Mr. Somkhit Meungpak 2. Ms. Bouavone Luangkho Vientiane Urban Development and Administration: 1. Mr. Sonethavy Phimmasane 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethsa	Department of Public Works and Transport of XYB: Mr PhouangKham PHILAKET
1.6 Review of the ESC Guidelines of Laos	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE	Department of Natural Resources and Environment of VTE: 1. Mr. Vilavong KENSOULINE 2. Mrs. Khamla Thammavong Department of Public Works and Transport of VTE:	Department of Natural Resources and Environment of LPB Mr.Chanthavong Phonnachit Urban Development Administration Authority	District vice governor of XYB district Mr. SomNuk Xaynathee Department of Public

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Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
	Mr. Vanhxay Phiomanyvone	Mr. Sonethavy Phimmasane Mr. Kaysone Chanthalath Vientiane Urban Development and Administration: Mr. Sonethavy Phimmasane Mr. Kaysone Chanthalath	Mr.Phoumy Orpethsan Department of Public Works and Transport of LPB. Mr.Bounpheng Chithaphone	Works and Transport of XYB: Mr PhouangKham PHILAKET
1.7 Finalization of the ESC Guidelines of Laos and the Preparation of the Manual for the Guidelines	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dethsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh
2.3 Implementation of the Pilot Projects	Acting Director of Pollution Control Division. Department of Pollution Control, MONRE Mr, Vanhxay Phiomanyvone	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration. 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr. Phathanong Sonephan
2.4 Presentation of the Results of the Pilot Projects	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethsan	Urban Development and Administration Agency; Mr.Phathanong Sonephan
3.3 Formulation of the Environmental Education and Awareness Program for SWM Improvement in the three pilot cities	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dethsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration; 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr.Phathanong Sonephan
3.4 Planning of the EEA Pilot Projects for SWM to Facilitate Activity 2.2	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayarath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr. SomNuk Xaynathee
3.5 Development of EEA Tools for SWM and Enhancement of	Acting Director of Pollution Control Division, Department of Pollution Control,	Department of Natural Resources and Environment of VTE: 1, Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh





Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
the Implementation System	MONRE Mr. Vanhxay Phiomanyvone	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	and Environment of LPB Mr. Sackdaphone Keoprachan	
3,6 Implementation of the EEA Pilot Projects	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Department of Public Work and Transport Mr Vilaysak Linthavong
3.7 Analysis of the Result of the EEA Pilot Project	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2, Mrs. Khamla Thammavong 3, Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB; Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr.SomNuk Xaynathee
3,8 Presentation of the EEA Pilot Project in Collaboration with Activity 2.4	Acting Director of Pollution Control Division, Department of Pollution Control, MONRE Mr. Vanhxay Phiomanyvone	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh

The SJET acknowledged the appointment.

2.3 Amendment of Member of Technical Committee (TC)

The Project Manager informed that the appointments of following technical committee members were amended in accordance with personal changes by August 2012.

Table2: Amended Member of Technical Committee (T/C)

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Chairperson	Director General of Department of Pollution Control,MONRE Madam Keobang A Keola	Department of Natural Resources and Environment of XYB Dr. Bagng on Sayarath	Department of Natural Resources and Environment of LPB Mr. Chantovong Phonnachit	Department of Natural Resources and Environmen of XYB Ms, Khamphew Phanthavong
Member	Director of Regulation and Information Division, DoPC of MONRE Mr. Phengkhamla Phonvisai	Department of Public Works and Transport of VTE Mr. Dethsongkham THAMMAVONG	Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan	District vice governor of XYI district Mr. SomNuk Xaynathee
	Planning/Ministry of Public Works and Transport Mr. Bounthong Keohanam	Department of Public Works and Transport of VTE Mr. Oudone NGENGVANNAVONG	Department of Public Works and Transport of LPB; Mr. Bounpheng Chithaphone	Urban Development and Administration Agency of XYB: Mr Bounkhong Phongsavanh
	Acting Director of Pollution Control Division, DoPC, MONRE Mr. Vanhxay Phiomanyvone	Vientiane Urban Development and Administration: Mr. Nousone Meunviseth	Department of Public Works and Transport of LPB: Mr. Phouttasorn Manophat	Department of Public Works and Transport of XYB; Mr PhouangKham PHILAKET
	Technical Staff of Department of Pollution Control, MONRE Mrs. Palina Khotphouthane	Department of Public Works and Transport of VTE: Mr. Somkhit Moungpack	Urban Development and Administration Agency of LPB Mr. Phumy Orpethsan	Urban Development and Administration Agency of XYB: Mr.Phathanong Sonephan
	Technical Staff of Department of Pollution Control, MONRE Mr. Noudeng Vongdala	Department of Natural Resources and Environment of VTE: Mr. Vilavong KENSOULINE	Urban Development and Administration Agency of LPB Ms. Kalsone Keopraserth	Department of Natural Resources and Environmen of XYB Mr. Kissamone Photiluck
		Vientiane Urban Development and Administration: Mr. Kaysone Chanthalath		Department of Public Work and Transport of XYB Mr Vilaysak Linthavong
		Vientiane Urban Development and Administration: Mr. Sonethavy Phimmasane		Urban Development and Administration Agency of XYB: Mr Khamla Khongsap
		Department of Natural Resources and Environment of VTE. Mrs. Khamla Thammavong		In Mania Mongoap
		Department of Public Works and Transport of VTE: Ms. Bouavone Luangkhot		

The SJET acknowledged the appointment.

2.4 Amendment of Approaches and Projects of Strategy: 2 at three cities

The SJET proposed that "Strategy: 2. WastePilot collection and transportation system is improved to keep the city clean and raise its efficacy" at three cities shall be amended in accordance with the result of detail site survey since May 2012 as follows;

Table3: Amended Approaches and Projects of Strategy2 at VTE

Strategies	Approach	Project	
Waste collection and transportation system is improved to keep the city clean and raise its efficiency.	2.1 Improvement of existing collection and discharge system	2.1.1 Improvement of existing collection system	
	and discharge system	2.1.2 Improvement of existing waste discharge system	
	2.2 Expansion of waste collection	2.2.1Expansion of waste collection system	
	service area.	2.2.2 Establishment of waste discharge rule in waste collection expansion area	
	2.3 The proper plan of waste transfer is studied and improved to manage the waste transfer efficiently.		
	2.4 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.4.1 To improve existing finance system regarding waste collection and transfer.	

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Table4: Amended Approaches and Projects of Strategy2 at LPB and XYB

Strategies	Approach	Project	
2.Waste	2.1 Improvement of existing collection	2.1.1 Improvement of existing collection system	
collection and transportation system is	and discharge system	2.1.2 Improvement of existing waste discharge system	
	2.2 Expansion of waste collection	2.2.1Expansion of waste collection system	
improved to keep the city clean and	service area.	2.2.2 Establishment of waste discharge rule in waste collection expansion area	
raise its efficiency.	2.3 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.3.1 To improve existing finance system regarding waste collection and transfer.	

The amendment of approaches and projects of "Strategy: 2. WastePilot collection and transportation system is improved to keep the city clean and raise its efficacy" at three cities has been approved by TC members.

2.5 Authorization of Pilot Projects and Counterpart's Responsibilities at three cities

The SJET proposed that the pilot projects at three cities and organization responsible
at three cities were authorized as follows:

VTE pilot project and Organization responsible

Strategies	Approach	Project	Activities	Organization Responsible
1."3Rs" are promoted at generation sources.	1.1 "3Rs" are promoted at generation sources to control the waste amount generation.	1.1.1 To reduce the amount of kitchen waste and garden waste at households.	-Study and selection of pilot area for on-site (home) composting	SJET
		The State of the S	-Establish the management system (Assignment of staff)	DONRE/priority area district
			-Procurement of home compost barrels	SJET
			-Selection of participating households	DONRE/priority area district
			-Designing the awareness raising tools (leaflet/equipment)	DONRE
			-Procurement of awareness raising tools	SJET
			-Distribution and instruction of home compost barrels	DONRE/priority area district
			-Dissemination to other area (from July 2013 onwards)	DONRE/priority area district
		1.1.2 To collect remidel to maste concepted at	-Study and selection of pilot area	SJET
		1.1.2 To collect recyclable waste separated at generation sources.	-Making rule for collection of recyclable waste and designing the awareness raising tools (leaflet/equipment)	DONRE/priority area district and VUDA
			-Procurement of awareness raising tools	SJET
			-Awareness program	DONRE/priority area district
			-Implementation of the program	DONRE/priority area district
			-Dissemination to other area (from July 2013 onwards)	DONRE/priority area district
		1.1.3 To avoid using excess packages such as plastic shopping bags.	-Study and selection of pilot area and pilot shops/markets	SJET
			-Making rule for reducing of the use of plastic bags and designing the awareness raising tools (leaflet/equipment)	DONRE/priority area district
			-Procurement of awareness raising tools	SJET
			-Awareness program	DONRE/priority area district
			-Implementation of the program	DONRE/priority area district
			-Dissemination to other area (from July 2013 onwards)	DONRE/priority area district
2. Waste collection and	2.1 Improvement of existing	2.1.1 Improvement of existing collection	-Study of existing waste collection system	SJET
transportation system	collection and discharge system	system	-Identification of the waste to be collected	VUDAA/priority area district
is improved to keep the city clean and raise		System.	-Selection of the priority area where new waste collection plan is implemented	VUDAA/priority area district
its efficiency			-Formulation of the new waste collection plan based on the waste to be collected and the area	VUDAA/priority area district
			-Procurement of leaflet / necessary equipment	SJET
			-Implementation new waste collection plan at the priority area	VUDAA/priority area district
		2.1.2 Improvement of existing waste discharge system	-Study the existing waste discharge system at the priority area	SJET
			-Plan of the new waste discharge rule based on the waste to be collected and the area	VUDAA/priority area district
			-Publicity of the waste discharge rule	VUDAA/priority area district
			-Procurement of leaflet / necessary material	VUDAA/priority area district
			-Implementation and monitoring of the waste discharge	VUDAA/priority area district
	2.2 Expansion of waste	2.2.1Expansion of waste collection system	-Clarifying non collection area	SJET
	collection service area.		-Study of the demanding of waste collection service	SJET
			-Selection of the priority area where new waste collection plan is implemented	VUDAA/priority area district
			-Formulation of the new waste collection plan based on the waste to be collected and the area	VUDAA/priority area district
			-Procurement of waste collection equipment	SJET
			-Implementation new waste collection plan at the priority area	VUDAA/priority area district
			-Dissemination to other area	VUDAA/priority area district
		2.2.2 Establishment of waste discharge rule in	-Study existing condition at the priority area	SJET

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Strategies	Approach	Project	Activities	Organization Responsible
		waste collection expansion area	-Plan of the new waste discharge rule at the priority area	VUDAA/priority area district
			-Publicity of the waste discharge rule	VUDAA/priority area district
			-Implementation and monitoring of the waste discharge	VUDAA/priority area district
			-Procurement of waste discharge equipment	SJET
			-Dissemination to other area	VUDAA/priority area district
	2.3 The proper plan of waste transfer is studied and improved to manage the waste transfer efficiently.	2.3.1 To study and introduce the new transfer station.	-No pilot project	Seeking for the candidate site by VUDA and DPWT
	2.4 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.4.1 To improve existing finance system regarding waste collection and transfer.	-Study existing waste collection fee system -Revise the fee systemPut the new fee system into force.	SJET/VUDAA
3. Final disposal	3.1The final disposal site is	3.1.1 To instruct the proper management of	-Study and plan of improvement of KM32 disposal site	SJET
system is improved to	managed properly to discharge	existing final disposal site.	-Procurement of concrete plate	SJET
mitigate adverse	waste properly.		-Installation of concrete plate at KM32 disposal site	VUDAA
impacts on the			-Improvement of access road at KM32 disposal site	SJET
surrounding areas.			-Establishment of buffer zone	SJET
			-Preparation of operation plan of KM32 disposal site	SJET
			-Operation of proper landfill site by according to SJET instruction	VUDAA
			-Supplying fuel for heavy equipment	VUDAA
			-Assignment of civil engineer at KM32 disposal site	VUDAA
			-Establishment of monitoring system	MONRE/DONRE
		3.1.2 To manage waste pickers and improve their working condition	-Study of waste pickers current condition	SJET
			-Procurement of ID card/ vaccine injection	SJET
			-Organizing the waste pickers/ID card	VUDAA
			-Implementation of vaccine injection for waste pickers	VUDAA
	3.2 The sewage from septic tank is treated properly to mitigate around aquatic impact.	3.2.1 To introduce and manage the proper treatment facility for the sewage from septic tanks	-Study and plan of septic tank sludge treatment	SJET
			-Construction of septic tank sludge treatment facility	SJET
			-Operation of septic tank sludge treatment facility	VUDAA
	3.3 The sound finance is established to manage the final disposal site properly.	3.3.1 To improve the finance system regarding the final disposal site.	-Study existing waste collection fee system -Revise the fee systemPut the new fee system into force.	SJET/VUDAA
4. Health care waste	4.1 Health care waste is separated	4.1.1 To establish the separation rule of health	-Preparation of waste separation guidelines.	MOH (this is outside of LPPE)
management is improved.	properly to prevent the expansion of infectious pathogen at generation sources.	care waste at generation source and monitoring system.	-Instruction and monitoring of waste separation using the guidelines to hospitals	DOH (this is outside of LPPE)
			-Confirmation of hospitals which use the incineration service (PP's target hospitals) and establish the infectious waste incineration committee by September 2013	DONRE, DOH, VUDAA and target hospitals
			-Preparation of monitoring sheets to monitor waste separation practices at the target hospitals and implementation of monitoring.	DONRE (confirmation is required if such monitoring at generation sources is in the scope of its jurisdiction)
			-Preparation of plan of waste containers distribution	DOH and hospitals
			-Appraisal of the container distribution plan and procurement of containers for the target hospitals	SJET
			-Implementation of waste separation following the guidelines.	Target hospitals
			-Preparation of monitoring sheets to monitor waste separation practices at the target hospitals and implementation of	DONRE

Strategies	Approach	Project	Activities	Organization Responsible
			monitoring.	
			-Giving advices	SJET
	4.2 Health care waste is transferred properly to prevent the expansion of infectious pathogen in the town.	4.2.1 To establish the collection and transportation system of health care waste and monitoring system.	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.) by September	VUDAA
			-Implementation of the collection and transportation plan	VUDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
			-Giving advices	SJET
properly to prevent the ex of infectious pathogen at t	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen at the		-Operation system establishment (assignment of personnel, operation recording format, procedure of waste reception, procedure of waste residue removal, etc.) by September	VUDAA
	disposal site.		-Operation and maintenance in October onward.	VUDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
			-Giving advices	SJET
	4.4 The sound finance is established to manage the treatment of health care waste	d to manage the regarding treatment of health care waste.	-Establishment of pricing and payment rules by September	DONRE, DOH, VUDAA and target hospitals (committee)
			-Implementation of pricing and payment rules	VUDAA and hospitals
properly.	properly.		-Keeping the account of the PP and reporting it to the committee	VUDAA
			-Review of the financial sustainability and revision of pricing if necessary	DONRE, DOH, VUDAA and target hospitals (committee)
			-Giving advices	SJET

1-34

LPB pilot project and Organization responsible

Strategies	Approach	Project	Activities	Organization Responsible
at generation sources. generation so	1.1 "3Rs" are promoted at generation sources to control the		-Study and selection of pilot area for on-site (home) composting	SJET
	waste amount generation.	guest houses and restaurants	-Establish the management system (Assignment of staff)	DONRE/UDAA
			-Procurement of home compost barrels	SJET
			-Selection of participating households	DONRE/UDAA
			-Designing the awareness raising tools (leaflet/equipment)	DONRE/UDAA
			-Procurement of awareness raising tools	SJET
			-Distribution and instruction of home compost barrels	DONRE/UDAA
			-Dissemination to other area (from July 2013 onwards)	DONRE/UDAA
	1		-Study and plan of off-site compost	SJET
	1		-Selection of participating hotels, guest houses and restaurants	DONRE/UDAA
			-Construction of compost plant	SJET
			-Implementation of organic waste collection and operation of off-site compost	UDAA
		1.1.2 To collect recyclable waste separated at generation sources.	-Study and selection of pilot area	SJET
			-Making rule for collection of recyclable waste and designing the awareness raising tools (leaflet/equipment)	DONRE/UDAA
	3		-Procurement of awareness raising tools	SJET
			-Awareness program	DONRE/UDAA
			The second secon	DONRE/UDAA
			-Implementation of the program	DONRE/UDAA
			-Dissemination to other area (from July 2013 onwards)	THE PROPERTY OF THE PARTY OF TH
	II.	1.1.3 To avoid using excess packages such as	-Study and selection of pilot area and pilot shops/markets	SJET
		plastic shopping bags.	-Making rule for reducing of the use of plastic bags and designing the awareness raising tools (leaflet/equipment)	DONRE/UDAA
			-Procurement of awareness raising tools	SJET
	III		-Awareness program	DONRE/UDAA
			-Implementation of the program	DONRE/UDAA
			-Dissemination to other area (from July 2013 onwards)	DONRE/UDAA
O Wester and Manager	2.1 Turning and all contains	2.1.1 Improvement of suicing collection	-Study of existing waste collection system	SJET
 Waste collection system is improved 	2.1 Improvement of existing collection and discharge system	2.1.1 Improvement of existing collection system	-Identification of the waste to be collected	UDAA
through the strengthening of collection service capacity and			-Selection of the priority area where new waste collection plan is implemented	UDAA
			-Formulation of the new waste collection plan based on the waste to be collected and the area	UDAA
enhancement of public			-Procurement of leaflet / necessary material	SJET
cooperation			-Construction of work shop building	SJET
			-Procurement of equipment for assembling 5m3 container	SJET
			-Management of workshop for assembling 5m3 container	UDAA
			-Implementation new waste collection plan at the priority area	UDAA
		2.1.2 Improvement of existing waste discharge system	-Study the existing waste discharge system at the priority area	SJET
			-Plan of the new waste discharge rule based on the waste to be collected and the area	UDAA
	12		-Publicity of the waste discharge rule	UDAA
			-Procurement of leaflet / necessary equipment	UDAA
			-Implementation and monitoring of the waste discharge	UDAA/DONRE
	2.2 Expansion of waste collection	2.2.1Expansion of waste collection system	-Clarifying non collection area	SJET

Strategies	Approach	Project	Activities	Organization Responsible
	service area.		-Study of the demanding of waste collection service	SJET
			-Selection of the priority area where new waste collection plan- is implemented	UDAA
			-Formulation of the new waste collection plan based on the waste to be collected and the area	UDAA
			-Procurement of waste collection equipment	SJET
			-Implementation new waste collection plan at the priority area	UDAA
			-Dissemination to other area	UDAA
		2.2.2Establishment of waste discharge rule in	-Study existing condition at the priority area	SJET
		waste collection expansion area	-Plan of the new waste discharge rule at the priority area	UDAA
			-Publicity of the waste discharge rule	UDAA
			-Implementation and monitoring of the waste discharge	UDAA
			-Procurement of discharge equipment	SJET
			-Dissemination to other area	UDAA
	2.3 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.3.1 To improve existing finance system regarding waste collection and transfer.	-Study existing waste collection fee system -Revise the fee systemPut the new fee system into force.	SJET/UDAA
. Final disposal	3.1The final disposal site is	3.1.1 To instruct the proper management of	-Study and plan of improvement of KM8 disposal site	SJET
stem is improved to	managed properly to discharge waste properly.	existing final disposal site.	-Procurement of concrete plate	SJET
nitigate adverse			-Installation of concrete plate at KM8 disposal site	UDAA
npacts on the			-Construction of new access road at KM8 disposal site	SJET
irrounding areas.			-Construction of new disposal cell	SJET
Manager and the same			-Site clearance for weigh bridge	UDAA
		3.1.2 To manage waste pickers and improve their working condition	-Installation of weigh bridge	SJET
			-Operation of weigh bridge	UDAA
			-Preparation of operation plan of KM8 disposal site	SJET
			-Operation of proper landfill site by according to SJET instruction	UDAA
			-Supplying fuel for heavy equipment	UDAA
			-Assignment of civil engineer at KM8 disposal site	UDAA
			-Establishment of monitoring system	MONRE/DONRE
			-Study of waste pickers current condition	SJET
			-Procurement of ID card/ vaccine injection	SJET
			-Organizing the waste pickers/ID card	UDAA
			-Implementation of vaccine injection for waste pickers	UDAA
		3.1.3 The feasible study at expected candidate site for new final disposal site in accordance with development plan, if necessary	-No pilot project at this moment	None
	3.2 The sewage from septic tank	3.2.1 To introduce and manage the proper	-Study and plan of septic tank sludge treatment	SJET
	is treated properly to mitigate	treatment facility for the sewage from septic	-Construction of septic tank sludge treatment facility	SJET
	around aquatic impact.	tanks	-Operation of septic tank studge treatment facility	UDAA
	3.3 The sound finance is	3.3.1 To improve the finance system regarding	-Study existing waste collection fee system	SJET/VUDAA
	established to manage the final disposal site properly.	the final disposal site.	-Revise the fee systemPut the new fee system into force.	
4. Health care waste	4.1 Health care waste is separated	4.1.1 To establish the separation rule of health	-Preparation of waste separation guidelines.	MOH (this is outside of LPPE)
management is improved.	properly to prevent the expansion of infectious pathogen at	care waste at generation source and monitoring system.	-Instruction and monitoring of waste separation using the guidelines to hospitals	DOH (this is outside of LPPE)
	generation sources.		-Confirmation of hospitals which use the incineration service	DONRE, DOH, UDAA and target hosp

Strategies	Approach	Project	Activities	Organization Responsible
			(PP's target hospitals) and establish the infectious waste incineration committee	
			-Preparation of monitoring sheets to monitor waste separation practices at the target hospitals and implementation of monitoring.	DONRE (confirmation is required if such monitoring at generation sources is in the scope of its jurisdiction)
			-Preparation of plan of waste containers distribution	DOH and hospitals
			-Appraisal of the container distribution plan and procurement of containers for the target hospitals	SJET
			-Implementation of waste separation following the guidelines.	Target hospitals
			-Preparation of monitoring sheets to monitor waste separation practices at the target hospitals and implementation of monitoring.	DONRE
			-Giving advices	SJET
	4.2 Health care waste is transferred properly to prevent the expansion of infectious pathogen in the town.	4.2.1 To establish the collection and transportation system of health care waste and monitoring system.	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.)	UDAA
			-Implementation of the collection and transportation plan	UDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
			-Giving advices	SJET
	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen at the	4.3.1 To establish the treatment and disposal system of health care waste and monitoring	-Operation system establishment (assignment of personnel, operation recording format, procedure of waste reception, procedure of waste residue removal, etc.)	UDAA
	disposal site,	system.	-Operation and maintenance.	UDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
	I the second sec		-Giving advices	SJET
	4.4 The sound finance is established to manage the	4.4.1 To establish sound finance system regarding treatment of health care waste.	-Establishment of pricing and payment rules	DONRE, DOH, UDAA and target hospitals (committee)
	treatment of health care waste	The state of the s	-Implementation of pricing and payment rules	UDAA and hospitals
	properly.		-Keeping the account of the PP and reporting it to the committee	UDAA
			-Review of the financial sustainability and revision of pricing if necessary	DONRE, DOH, UDAA and target hospitals (committee)
			-Giving advices	SJET

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	Strategies	Approach	Project	Activities	Organization Responsible
1."3Rs" are pro	."3Rs" are promoted at generation sources.	1.1 "3Rs" are promoted at generation sources to control the	1.1.1 To reduce the amount of kitchen waste and garden waste at households.	-Study and selection of pilot area for on-site (home) composting	SJET
	Parameter in state and	waste amount generation.		-Establish the management system (Assignment of staff)	DONRE/UDAA
		Day's and the same of the same		-Procurement of home compost barrels	SJET
				-Selection of participating households	DONRE/UDAA
				-Distribution and instruction of home compost barrels	DONRE/UDAA
		III.		-Dissemination to other area (from July 2013 onwards)	DONRE/UDAA
		11	1.1.2 To collect recyclable waste separated at	-Study and selection of pilot area	SJET
			generation sources.	-Making rule for collection of recyclable waste and designing	DONRE/UDAA
				the awareness raising tools (leaflet/equipment)	
				-Procurement of awareness raising tools	SJET
				-Awareness program	DONRE/UDAA
		li li		-Implementation of the program	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	DONRE/UDAA
			1.1.3 To avoid using excess packages such as	-Study and selection of pilot area and pilot shops/markets	SJET
			plastic shopping bags.	-Making rule for reducing of the use of plastic bags and	DONRE/UDAA
				designing the awareness raising tools (leaflet/equipment)	
			2.1.1 Improvement of avieting collection	-Procurement of awareness raising tools	SJET
				-Awareness program	DONRE/UDAA
				-Implementation of the program	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	DONRE/UDAA
	2 dillocation	2.1 Toursesson of misting		-Study of existing waste collection system	SJET
	2. Waste collection system is gradually	2.1 Improvement of existing collection and discharge system	2.1.1 Improvement of existing collection system	-Identification of the waste to be collected	DONRE/UDAA
	improved to keep the city clean.			-Selection of the priority area where new waste collection plan is implemented	DONRE/UDAA
	city cican.			-Formulation of the new waste collection plan based on the waste to be collected and the area	DONRE/UDAA
				-Procurement of leaflet / necessary material	SJET
			-Construction of work shop building	SJET	
				-Procurement of equipment for assembling 5m3 container	SJET
		N 5		-Management of workshop for assembling 5m3 container	DONRE/UDAA
				-Implementation new waste collection plan at the priority area	DONRE/UDAA
			2.1.2 Improvement of existing waste discharge	-Study the existing waste discharge system at the priority area	SJET
			system	-Plan of the new waste discharge rule based on the waste to be collected and the area	DONRE/UDAA
				-Publicity of the waste discharge rule	DONRE/UDAA
				-Procurement of leaflet / necessary equipment	DONRE/UDAA
				-Implementation and monitoring of the waste discharge	DONRE/UDAA
		2.2 Expansion of waste collection	2.2.1Expansion of waste collection system	-Clarifying non collection area	SJET
		service area.	The second secon	-Study of the demanding of waste collection service	SJET
				-Selection of the priority area where new waste collection plan is implemented	DONRE/UDAA
				-Formulation of the new waste collection plan based on the waste to be collected and the area	DONRE/UDAA
				-Procurement of waste collection equipment	SJET
				-Implementation new waste collection plan at the priority area	DONRE/UDAA

Strategies	Approach	Project	Activities	Organization Responsible
			-Dissemination to other area	DONRE/UDAA
		2.2.2Establishment of waste discharge rule in	-Study existing condition at the priority area	SJET
			-Plan of the new waste discharge rule at the priority area	DONRE/UDAA
	V		-Publicity of the waste discharge rule	DONRE/UDAA
			-Implementation and monitoring of the waste discharge	DONRE/UDAA
		*	-Procurement of discharge equipment	SJET
			-Dissemination to other area	DONRE/UDAA
	2.3 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.3.1 To improve existing finance system regarding waste collection and transfer.	-Study existing waste collection fee system -Revise the fee systemPut the new fee system into force.	SJET/UDAA
3. Final disposal	3.1The final disposal site is	3.1.1 To instruct the proper management of	-Study and plan of improvement of KM9 disposal site	SJET
system is gradually	managed properly to discharge	existing final disposal site.	-Procurement of concrete plate	SJET
improved in	waste properly.		-Installation of concrete plate at KM9 disposal site	UDAA
accordance with the	1		-Installation of site office	SJET
increase of waste			-Operation of site office	UDAA
collection amount.			-Preparation of operation plan of KM9 disposal site	SJET
			-Operation of proper landfill site by according to SJET instruction	UDAA
			-Supplying fuel for heavy equipment	UDAA
			-Assignment of staff and guards at KM disposal site	UDAA
			-Establishment of monitoring system	MONRE/DONRE
		3.1.2 To manage waste pickers and improve their working condition	-Study of waste pickers current condition	SJET
	3.2 The sewage from septic tank is treated properly to mitigate	3.2.1 To introduce and manage the proper treatment facility for the sewage from septic	-Study and plan of septic tank sludge treatment	SJET
			-Improvement of septic tank sludge treatment facility	SJET
	around aquatic impact.	tanks	-Operation of septic tank sludge treatment facility	UDAA
	3.3 The sound finance is established to manage the final disposal site properly.	3,3,1 To improve the finance system regarding the final disposal site.	-Study existing waste collection fee system -Revise the fee systemPut the new fee system into force.	SJET/VUDAA
4. Health care waste	4.1 Health care waste is separated	4.1.1 To establish the separation rule of health	-Preparation of waste separation guidelines.	MOH (this is outside of LPPE)
management is improved.	properly to prevent the expansion of infectious pathogen at	care waste at generation source and monitoring system.	-Instruction and monitoring of waste separation using the guidelines to hospitals	DOH (this is outside of LPPE)
	generation sources. -Confirmation of hospitals which use the infectious waste (PP's target hospitals) and establish the infectious waste safe-disposal committee -Preparation of monitoring sheets to monitor waste separa practices at the target hospitals and implementation of	-Confirmation of hospitals which use the infectious waste pit (PP's target hospitals) and establish the infectious waste	DONRE, DOH, UDAA and target hospitals	
			monitoring.	DONRE (confirmation is required if such monitoring at generation sources is in the scope of its jurisdiction)
			-Preparation of plan of waste containers distribution	DOH and hospitals
			-Appraisal of the container distribution plan and procurement of containers for the target hospitals	SJET
			-Implementation of waste separation following the guidelines.	Target hospitals
			-Preparation of monitoring sheets to monitor waste separation practices at the target hospitals and implementation of monitoring.	DONRE
			-Giving advices	SJET
	4.2 Health care waste is transferred properly to prevent the	4.2.1 To establish the collection and	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the	UDAA

Strategies	Approach	Project	Activities	Organization Responsible
	expansion of infectious pathogen in the town.	transportation system of health care waste and monitoring system.	week for collection, transportation route, waste delivery recording format, etc.)	
		I	-Implementation of the collection and transportation plan	UDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
			-Giving advices	SJET
	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen at the 4.3.1 To establish the treatment and disposal system of health care waste and monitoring	-Operation system establishment (preparation of infectious waste pit, instruction to site operators, operation recording format, procedure of waste reception, etc.)	UDAA	
	disposal site.	system.	-Operation and maintenance. (to be started by March 2013)	UDAA
			-Preparation of monitoring sheets and implementation of monitoring	DONRE
			-Giving advices	SJET
		4.4.1 To establish sound finance system regarding treatment of health care waste.	-Establishment of pricing and payment rules	DONRE, DOH, UDAA and target hospitals (committee)
	treatment of health care waste		-Implementation of pricing and payment rules	UDAA and hospitals
	properly.		-Keeping the account of the PP and reporting it to the committee	UDAA
			-Review of the financial sustainability and revision of pricing if necessary	DONRE, DOH, UDAA and target hospitals (committee)
			-Giving advices	SJET





The technical committee agreed on the authorization of pilot projects and counterpart's responsibilities at three cities proposed by SJET.

3. CONCLUSION

3.1 Following the intensive and technical discussions among participants made at the meetings on 20th and 27th August 2012 at Vientiane capital, on 22nd August 2012 at Luang Prabang district and on23rd August 2012 at Xayabouri district and the third technical committee on 31st August 2012, the above clarifications and modifications was fully approved by the both sides.

17/2

Agenda

The Third Technical Committee Meeting on 31st August 2012 The Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration

Date and Time	Subject	Responsibility
8:00 - 8:30	Register	All
8:30 - 8:40	Welcome Remark	Vanxay PHIOMANYVONE LPP project coordinator
8:40 - 9:00	Open Remark	Director General of Pollution Control Department, MoNRE
9:00 - 9:30	Incinerators Handing Over Ceremony Section - Laos Pilot Program for Narrowing the Development Gap towards ASAN Integrated (LPPE project) - Handing Over	- Masato TOGAWA Chief Representative of JICA Laos Office
	 Comment forward for Laos Pilot Program for Narrowing the Development Gap towards -ASEAN Integrated (LPPE project 	- Director General of Pollution Control Department, MoNRE
9:30 - 10:00	LPPE Progress Report	Phengkhamla PHONVISAI LPPE project manager
10:00 - 10:15	Coffee Break	All
10:15 - 11:15	-Summary of strategy, approach and pilot project -Authorization of Pilot Project and responsibilities of counterpart at VTE, LPB & XYB	- VTE, LPB,XYB
11:15- 12:00	-Appointment of Person in charge of each pilot activities by counterpart -Work plan	- VTE - LPB - XYB
12:00 - 13:30	Lunch Break	All
13:30 - 14:00	Schedule of Vision Editing	Naofumi SATO Deputy Team Leader
14:00 – 14:30	Study Tour Report - Vietnam study tour - Thailand study tour	XYB representatives LPB representatives
14:30 - 14:45	Coffee Break	All
14:45 - 15:45	Discussion	All
15:45 - 16:00	Conclusion and result of workshop report	Vanxay PHIOMANYVONE LPP project coordinator
16:00	Closing Remark	Director General of Pollution Control Department, MoNRE
	STE 1	104

Appendix 2

31			ittee meeting on 31st August 2012.
No.	Name	Organization	Title
1	Ms.Keobang A Keola	Central Government	Director General, Department of Pollution Control, MoNRE
2	Mr.Phengkhamla Phonvisai	Central Government	Chief, Division of Regulation and Information, DPC, MoNRE
3	Mr.Vanhxay Phiomanyvone	Central Government	Acting Chief, Division of Pollution Control, DPC, MoNRE
4	Mr.Ruen Chanphana	Central Government	Chief, Division of Administration and Planning, DPC, MoNRE
5	Mr.Thewaluck Phonekaew	Central Government	Chief, Division of Pollution Management, DPC, MoNRE
6	Mr.Sunadeth Sukchaloen	Central Government	Chief, Division of Technical Promotion, DPC, MoNRE
7	Mr.Noudeng Vongdala	Central Government	Technician, DPC, MoNRE
8	Ms.Palina Khotphouthone	Central Government	Technician, DPC, MoNRE
9	Ms.Khanmalee Suthammawong	Central Government	Technician, DPC, MoNRE
10	Ms.Supalanee Duangmala	Central Government	Technician, DPC, MoNRE
11	Ms.Amornrat Mancephone	Central Government	Technician, DPC, MoNRE
12	Mr.Bounthong Keohanam	Central Government	Director of Urban Development Division, Department of Housing and Urban Planning, MPWT
13	Dr.Vilaivone Mangkhaserm	Central Government	Deputy Chief of Health and Environment Division, Department of Health-Disease Protection, MPH
14	Dr.Bangon Sayarath	VTE	Deputy Director, DONRE, Vientiane Capital
15	Mr.Vilayong Kensouline	VTE	Deputy Chief, Division of Water Resources, DONRE, Vientiane Capital
16	Mr.Khamla Thammawong	VTE	Deputy Chief, Division of Environment, DONRE, Vientiane Capital
17	Mr.Khampian Inthaluecha	VTE	Chairman, VUDAA, Vientiane Capital
18	Mr.Nusone Muenviseth	VTE	Deputy Chairman, VUDAA, Vientiane Capital
19	Mr.Kaisone Chanthalath	VTE	Technician, VUDAA, Vientiane Capital
20	Mr.Bouakham Phakasoum	VTE	Board of Directors, Vientiane Solid Waste Collection Service, VUDAA, Vientiane Capital
21	Ms.Bouavone Luangkhot	VTE	Technician, DPWT, Vientiane Capital
22	Mr.Bounbueng Panyakit	VTE	Deputy Chief, Saysettha District, Vientiane Capital
23	Mr.Khoumphawa Champasuk	VTE	Deputy Chief, Administration Office, Saysettha District, Vientiane Capital
24	Mr.Pouthavong Suwanphonesai	VTE	Technician, Administration Office, Saysettha District, Vientiane Capital
	Ms.Sudalai Manohtham	VTE	Technician, Administration Office, Saysettha District, Vientiane Capital
	Ms.Khottamin Pongyalak	VTE	Vice Chief of Section, Administration Office, Vientiane Capital

ETE 17

	Mr. Vithone Lavaphong	VTE	Technician, Department of Planning and Investment, Vientiane Capital
	Mr.Somphone	VTE	Technician, Department of Health, Vientiane Capital
	Mr.Soumlah Thammawongsa	VTE	Deputy Chief of Administration Office, DONRE, Vientiane Capital
	Dr.Thongfai Vongchaiya	VTE	Chief of Medical Service Division, 5 April Hospital
	Dr.Khamphet Thammavong	VTE	Chief of Division, Settha Hospital
	Ms.Sangsadeth	VTE	Mahosot Hospital
	Mr.Bounthone Minmalaisingha	VTE	Deputy Chief of Nurse, Mittaphab Hospital
	Mr.Somvieng Khaewvilai	VTE	Chief of Section, 103 Hospital
	Ms.Sitsamone Kaewsanhom	VTE	Administration Officer, Lao Pasteur Institute
	Mr.Phumy Orpetsan	LPB	Vice President of Luang Prabang District and Vice President of UDAA, Luang Prabang Province
	Mr.Suraphone Philakoum	LPB	Chief of Environment Section, DONRE, Luang Prabang Province
	Mr.Bounpheng Chittaphone	LPB	Chief of DPWT Office, Luang Prabang District
	Ms.Kaisone Kaewprasert	LPB	Technician, Environmental Section, UDAA, Luang Prabang Province
	Mr.Sakdaphone Khaewprachan	LPB	Technician, Environmental Section, DONRE, Luang Prabang Province
Ī	Mr.Phouthasone Manouphat	LPB	Technician, DPWT Office, Luang Prabang District
	Mr.Khamphoey Kongpheng	LPB	Chief of Technical Section, Luang Prabang Provincial Hospital, Luang Prabang Province
i	Mr.Bounkhong Phongsawan	XYB	President of UDAA, Xayabouri Province
	Ms.Khamphiou Phanthavong	XYB	Deputy Chief of DONRE, Xayabouri Province
	Mr.Chanpheng Panthuarmat	XYB	Deputy Chief of DPWT, Xayabouri Province
	Mr.Phattanong Sonephone	XYB	Technician, UDAA, Xayabouri Province
	Mr.Khamha Kongsub	XYB	Technician, UDAA, Xayabouri Province
	Mr.Somnuk Sainathee	XYB	Deputy Chief of Xayabouri District, Xayabouri Province
	Mr.Kittasamone Photilack	XYB	Technician, DONRE, Xayabouri Province
	Mr. Vilaisack Linthawong	XYB	Technician, DPWT, Xayabouri Province

MINUTES OF MEETINGS

FOR

THE FOURTH TECHNICAL COMMITTEE

ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Xayabouri, 14th February 2013

Mr. Susumu SHIMURA

Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Phengkhamla PHONVISAI

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Fourth Technical Committee Meeting on the Project

The fourth technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 14th February 2013 at Xayabouri District office. The Project Manager of the C/P Team, Mr. Phengkhamla PHONVISAI Director of Regulation and Information Division, Pollution Control Depart of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The fourth technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 Amendment of Member of Counterpart (C/P) Team

The Project Manager informed that the appointments of following members as the counterpart (C/P) personnel were amended in accordance with personal changes by February 2013.

Project Mr. Vanxay Ac	Position and Organization irector of Legslation and Information Division, oPC, MONRE cting Director of Pollution Control Division, DoPC, ONRE
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Table1: Amended Member of Counterpart (C/P) Team

Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	T 1 commi
1.4	Director of	Department of Natural Resources and	Department of Natural Resources and	Xayabouri (XYB)
Formulation of the	Legislation and	Environment of VTE:	Environment of LPB	Department of Natural
Environment and		Dr. Bangone Xayyalath	Environment of LPB	Resources and
Development Vision	Department of	2. Mrs. Khamla Thammavong	Mr.Chanthavong Phonnachit	Environment of XYB
for the Pilot Cities	Pollution Control,	3. Mr. Vilavong Kensouline	l	Ms. Khamphew
	MONRE	Department of Delivery	Urban Development Administration	Phanthavong
1	Mr. Phengkhamla	Department of Public Works and	Authority	
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		2. Mr. Oudone Ngengvannavong	Transport of LPB:	
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		4. Mr. Somkhit Meungpak	1 3	ſ
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	i	Administration:		1 1
		Mr. Nousone Meunviseth		
1	1	2. Mr. Sonethavy Phimmasane		. 1
	<u> </u>	3. Mr. Kaysone Chanthalath		
1.5	Director of	Department of Natural Resources and	Department of Natural Resources and	<u> </u>
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	Pollution Control	Department of Public Works and	Urban Development Administration	Department of Public
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Mr. Vanhxay Transport of VTE: Mr. Sackdaphone Keoprachan	System		Department of Public Works and		
	-	Mr. Vanhxay		Mr. Sackdaphone Keonrachan	
		Phiomanyvone			



Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
3.6 Implementation of the EEA Pilot Projects	Technical staff of Legislation and Information Division. Department of Pollution Control MONRE. Ms Soukpalamy DUANGMALA	2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration; 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms.Kaisorn Keopraserth	Department of Public Work and Transport Mr Vilaysak Linthavong
3.7 Analysis of the Result of the EEA Pilot Project	Technical staff of Legislation and Information Division, Department of Pollution Control, MONRE, MS Soukpalamy DUANGMALA	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr.SomNuk Xaynathee
3.8 Presentation of the EEA Pilot Project in Collaboration with Activity 2.4	Technical staff of Legislation and Information Division. Department of Pollution Control. MONRE, Ms Soukpalamy DUANGMALA	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh

The SJET acknowledged the appointment.

2.3 Amendment of Member of Technical Committee (TC)

The Project Manager informed that the appointments of following technical committee members were amended in accordance with personal changes by February 2013.

Table2: Amended Member of Technical Committee (T/C)

	Tabloz: Tallot	idea melimer of legitii	Cal Committee (1/6)	
Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Chairperson	Director of Legulation and Information Division, DoPC of MONRE Mr. Phengkhamla Phonvisai	Department of Natural Resources and Environment of XYB Dr. Bagng on Sayarath	Department of Natural Resources and Environment of LPB Mr. Chantovong Phonnachit	Department of Natural Resources and Environment of XYB Ms. Khamphew Phanthavong
Member	Planning/Ministry of Public Works and Transport Mr. Bounthong Keohanam	Department of Public Works and Transport of VTE Mr. Dethsongkham THAMMAVONG	Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan	District vice governor of XYB district Mr. SomNuk Xaynathee
	Deputy Chief of Health and Environment Division, Ministry of Health Ms Vitayvone MUNGKHASERM	Department of Public Works and Transport of VTE Mr. Oudone NGENGVANNAVONG	Department of Public Works and Transport of LPB: Mr. Bounpheng Chithaphone	Urban Development and Administration Agency of XYB: Mr Bounkhong Phongsavanh
	Acting Director of Pollution Control Division, DoPC, MONRE Mr. Vanhxay Phiomanyvone	Vientiane Urban Development and Administration: Mr. Nousone Meunviseth	Department of Public Works and Transport of LPB: Mr. Phouttasorn Manophat	Department of Public Works and Transport of XYB: Mr PhouangKham PHILAKET
	Technical Staff of Department of Pollution	Department of Public Works and Transport of VTE: Mr. Somkhit Moungpack	Urban Development and Administration Agency of LPB	Urban Development and Administration Agency of XYB:



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Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
	Control, MONRE Mrs. Palina Khotphouthane		Mr. Phumy Orpethsan	Mr.Phathanong Sonephan
	·			
	Technical Staff of Department of Pollution	Department of Natural Resources and Environment	Urban Development and	Department of Natural Resources and Environment
	Control, MONRE	of VTE:	Administration Agency of LPB	of XYB
	Mr. Noudeng Vongdala	Mr. Vilavong KENSOULINE	Ms. Kaisone Keopraserth	Mr. Kissamone Photituck
	Technical Staff of	Vientiane Urban Development and		Department of Public Work
	Department of Pollution Control, MONRE	Administration:		and Transport of XYB Mr Vilaysak Linthavong
]	Ms Soukpalamy	Mr. Kaysone Chanthalath		
	DUANGMALA			
	Technical Staff of Department of Pollution	Vientiane Urban Development and		Urban Development and Administration Agency of
	Control, MONRE	Administration:		XYB:
	Mr Nakkhalin VORRASARN	Mr. Sonethavy Phimmasane		Mr Khamla Khongsap
	Technical Staff of Department of Pollution	Department of Natural Resources and Environment		
	Control, MONRE	of VTE:		
	Mr Khounsamay SILAPHET	Mrs. Khamla Thammavong		
	Technical Staff of Department of Pollution	Department of Public Works and Transport of VTE:		
	Control, MONRE	Ms. Bouavone Luangkhot		
	Mr Sivanh KHONESAVANH		******	
	Technical Staff of Department of Pollution			
	Control, MONRE			
	Ms Kesone DALASENG			
	Technical Staff of Department of Pollution			
	Control, MONRE			
	Ms thidalath VONGXAYA			

The SJET acknowledged the appointment.

2.4 The PDM₁ and PO₁ are revised to PDM₂ and PO₂

 PDM_1 and PO_1 are revised to PDM_2 (Appendix 3) and PO_2 (Appendix 4) by amending them as follows.

Project Purpose:

- > Objectively verifiable indicators: "The ESC Guidelines and its Manual are disseminated." is changed to "The ESC Guidelines are widely used."
- Means of verification: "1. The number of seminars/workshops held to disseminate the ESC Guidelines and its Manual, and the number of participating cities." is changed to "1. The number of cities formulated "Vision for ESC.""

Output 1:

- Narrarive Summary: "The Guidelines on ESC is formulated based on the National Environmental Strategy 2020 and related strategies and action plans." is changed to "The Guidelines on ESC is formulated <u>and disseminated</u> based on the National Environmental Strategy 2020 and related strategies and action plans."
- > Objectively verifiable indicators: "The ESC Guidelines is formulated." is changed to "The ESC Guidelines is formulated and disseminated."
- Means of verification: "2. The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities." is added.

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Output 2:

Descrively verifiable indicators: "(In each pilot site) To be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2)" is changed to "As shown in the detailed PDM table for output 2 & 3 below."

Output 3:

Dijectively verifiable indicators: "2. The extent of community participation in the pilot projects (to be specifically determined when the content of the pilot projects are confirmed (in the first half of Year 2))." is changed to "2. As shown in the detailed PDM table for output 2 & 3 below."

Activities:

> The term of Activity 1.8 "Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities." is added.

Based on the various discussions made regarding the PDM₁ and PO₁ by the SJET and Counterpart (C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM₂ and PO₂ were approved by TC members.

2.5 Amendment of Authorization of Pilot Projects and Counterpart's Responsibilities at three cities

The Authorization of Pilot Projects and Counterpart's Responsibilities at three cities is amended as shown in the Appendix 5. The main amendment is shown below.

2.5.1 VTE

- (1) The following approaches shall be deleted from original table and merged as "5. Institutional system improvement"
 - "2.4 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer."
 - "3.3 The sound finance is established to manage the final disposal site properly."
 - "4.4 The sound finance is established to manage the treatment of health care waste properly."
- (2) "4.1 Health care waste is separated properly to prevent the expansion of infectious pathogen at generation sources." shall be deleted from original table.

2.5.2 LPB

(1) "1.1 "3Rs" are promoted at generation sources to control the waste amount generation." shall be amended as "1.1"3Rs" are promoted at on-site to control the waste amount generation."

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- (2) "1.1.1 To reduce the amount of kitchen waste and garden waste at households, hotels, guest houses and restaurants" shall be amended as "1.1.1 To reduce the amount of kitchen waste and garden waste at households"
- (3) "1.2 Recycling is promoted at off-site by composting" shall be added.
- (4)" 1.2.1 To reduce the final disposal amount of kitchen waste from hotels" shall be added.
- (5) The following approaches shall be deleted from original table and merged as "5. Institutional system improvement"
 - "2.3 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer."
 - "3.3 The sound finance is established to manage the final disposal site properly."
 - "4.4 The sound finance is established to manage the treatment of health care waste properly."
- (6) "4.1 Health care waste is separated properly to prevent the expansion of infectious pathogen at generation sources." shall be deleted from original table.

2.5.3 XYB

- (1) The following approaches shall be deleted from original table and merged as "5. Institutional system improvement"
 - "2.3 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer."
 - "3.3 The sound finance is established to manage the final disposal site properly."
 - "4.4 The sound finance is established to manage the treatment of health care waste properly."
- (2) "4.1 Health care waste is separated properly to prevent the expansion of infectious pathogen at generation sources." shall be deleted from original table.

The technical committee agreed on the amendment of authorization of pilot projects and counterpart's responsibilities at three cities proposed by SJET.

3. CONCLUSION

Following the intensive and technical discussions among participants made at the meetings on 10th January 2013 at Vientiane capital, on 23rd January 2013 at Luang Prabang district and on 25th January at Xayabouri district and the fourth technical

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committee on 14th February 2013, the above clarifications and modifications was fully approved by the both sides.

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Agenda

The agenda of the fourth technical committee meeting on 14th February 2013 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

Subject	Responsible Personnel	Time
Registration	·	8:00 - 8:30
P.1 Opening Speech	Governor of XYB District Director General of PCD, MONRE	8:30 9:00
P.2 Progress of the LPPE from Sep 2012 to Feb 2013	Director of Legislation and Information Division of PCD	9:00 - 9:20
P.3 Planned Activities of the LPPE from Mar 2013 to Aug 2013 and Modification of PDM	Team Leader of SJET	9:20 – 10:00
Coffee Break		10:00 – 10:30
P.4 Revised Vision for the ESC of Each Pilot City	Vientiane Capital DONRELuang Prabang DONREXayabouri DONRE	10:30 – 11:00
P.5 Selected PPs and their Contents and Issues	Vientiane Capital VUDAALuang Prabang UDAAXayabouri UDAA	11:00 – 12:00
Lunch		12:00 – 13:30
P.6 Group Discussion on the Strength and Weakness of Each Pilot City and the Issues for Successful Implementation of PPs and How to Conquer the Issues	Vientiane Capital VUDAALuang Prabang UDAAXayabouri UDAA	13:30 15:00
P.7 Results of the Group Discussion	Representatives of Groups	15:00 – 15:30
P.8 Conclusion of the 4 th TC	Acting Director of Pollution Management Division of PCD	
P.9 Closing Speech	Governor of XYB District Director General of PCD, MONRE	15:45 – 16:00



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Appendix 2 Attendant List on the Third Technical Committee meeting on 14th February 2013.

No	Name	Position	attee meeting on 14 th February 2013. Title
1	Ms KeobangA KEOLA	Central Government	Director General, Department of Pollution Control, MoNRE
2	Mr Phengkhamla PHONVISAI	Central Government	Chief, Division of Regulation and Information, DPC, MoNRE
3	Mr Vanxay PHIOMANYVONE	Central Government	Acting Chief, Division of Pollution Control, DPC, MoNRE
4	Mr Suphin SOMAYA	Central Government	Director General of Cabinet Office
5	Mr Outha ISSALAVONG	Central Government	Deputy Director of Division
6	Mrs Palina KHODPHOUTHONE	Central Government	Technician, DPC, MoNRE
7	Mr Noudeng VONGDALA	Central Government	Technician, DPC, MoNRE
8	Mr Sivanh KHONESAVANH	Central Government	Technician, DPC, MoNRE
9	Ms Soukpalamy DOUANGMALA	Central Government	Technician, DPC, MoNRE
10	Ms Kesone DALASENG	Central Government	Technician, DPC, MoNRE
11	Mrs Thidalath VONGXAYA	Central Government	Technician, DPC, MoNRE
12	Mr Nakhalin VORASANE	Central Government	Technician, DPC, MoNRE
13	Mr Khounsamay SILAPHET	Central Government	Technician, DPC, MoNRE
14	Mrs Bangon SAYYARATH	VTE	Deputy Director, DONRE, Vientiane Capital
15	Mr Khampien INTHALUESA	VTE	Chairman, VUDAA, Vientiane Capital
16	Mr Thavixay MAOSOMPHOU	VTE	Vice governor of Saysetha District
17	Ms Malakhone SONETHAVONG	VTE	Project Assistant Officer, LPPO
18	Mr. khoumkham KHANKHAM	VTE	Officer, MOH
19	Mrs Bouavone LUANGKHOT	VTE	Technician, DPWT
20	Mr Sonethavy PHIMMASANE	VTE	Vice Chief of Section, VUDAA
21	Mr Alounsay MINGBOUPPHA	VTE	Officer, Saysettha District
22	Mr Vilachith DUANGCHAN	VTE	Officer, DPWT
23	Mrs Khamlar THAMMAVONG	VTE	Officer, DONRE
24	Mrs Manoluck KEOMANIVONG	VTE	Cabinet Office, MONRE
25	Mr Boualomphone KHAMVONGSA	VTE	Department of Planning and Investment, MONRE
26	Mr. Susumu SHIMURA	LPPE	Team leader of LPPE project
27	Ms. Noriko OTSUKI	LPPE	Expert of LPPE project in charge of Environmental education
28	Mr Shinnosuke ODA	LPPE	Expert of LPPE project in charge of improving collection service and transportation
29	Mr. Yuji IWATSUKI	LPPE	Construction Supervisor
30	Mr SayyamungNANTHANAVONE	LPPE	Project's staff



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31	Mr Saysavanh INTHAPANYA	LPPE	Project's staff
32	Ms. Malakhon SONETHAVONG	LPPO	Project assistant officer
33	Ms. Sherry IVYVALENZUELA	Nagoya University	Internship
34	Mr. Khamphet SAYYAVONG	VTE	National Television of Laos
35	Mr. Phetsavanh SISUMUNG	VTE	National Television of Laos
36	Mr Phoumy ORPHETSANE	LPB	Deputy Director of UDAA
37	Mrs Kaisone KEOPASERT	LPB	Chief Section of UDAA
38	Mr Sakdaphone KEOPHACHAN	LPB	Deputy chief of Section
39	Mr Khampadit PHONNACHITH	LPB	Staff of DONRE
40	Mrs Bounphuk INTAPANYA	ХҮВ	Governor of XYB District
41	Mr. Bounthavy BOUNSOUHACK	XYB	Vice governor
42	Mr Pien CHANTHIP	XYB	Director of DONRE
43	Ms. Khamphiew PHANTHAVONG	XYB	Deputy Director of DONRE
44	Mr. Bounhom SENKHAM	XYB	Chief of Environmental Section
45	Mr. Kitsamone PHOTHILACK	XYB	Staff of DONRE
46	Ms. Souphapone	XYB	Staff of DONRE
47	Ms. Sonesavanh	XYB	Staff of DONRE
.48	Mr Bounkhong PHONGSAVANH	XYB	President of UDAA
49	Mr Thonglan PHEUAPHOM	XYB	Deputy Director of UDAA
50	Mr. Farsananh THAMMAVONG	XYB	Chief of Unit ,UDAA
51	Mr Phutthanong SONEPHAN	XYB	Vice Chief of Unit ,UDAA
52	Mr Sayyasith SOMSY	XYB	Officer, UDAA
53	Mr Seth SOUKNAKHONE	XYB	Deputy Director of Trade Union
54	Mr. Phouvieng CHANTHIP	XYB	Chief of management section
55	Mr Sulisack KHAMON	ХҮВ	Secretariat of Youth Union
56	Mr Bouachan VANPHAN	XYB	Deputy Director
57	Ms Thevy PHANLACK	ХҮВ	Director of Women's Union
58	Mr Kapkeo SISUMLARN	ХҮВ	Vice Chief of Division
59	Mr. Phouankham PHILAKETH	XYB	Vice Chief of Section, DPWT
60	Mr. Vilaysack LINTHAVONG	XYB	Staff of DPWT
61	Ms. Vilayvanh	XYB	Journalist
62	Ms. Shaly	ХҮВ	Journalist
63	Mr. Letsamone	ХҮВ	Journalist
			

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Project Design Matrix (PDM₂)

Appendix 3

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, Luang Prabang District and Xayabouri District)

Period: August 2011-October 2015

Ver. 2 PDM₂ February 2013

	Narrarive Summary	Objectively verifiable indicators	Means of verification	Important assumptions
	ct purpose otion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines are widely used.	The number of cities formulated "Vision for ESC" Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. The number of cities newly registered as ESC.	
Outpi 1	uts The Guidelines on ESC is formulated and disseminated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated and disseminated.	Formulated ESC Guidelines The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities.	Environmental policy of the Lao Government is not drastically changed.
2	Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	As shown in the detailed PDM table for output 2 & 3 below.	Same as on the left	, ,
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	 EEA Program for SWM improvement in the three pilot cities is formulated. As shown in the detailed PDM table for output 2 & 3 below. 	Formulated EEA program Same as on the left	
Activ		Inputs	**	
1.1	Basic environmental information of pilot cities are collected and analyzed	<pre><from laos=""> 1. Counterpart personnel from the</from></pre>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	Team leader/urban environmental management	equipment and fuels is not drastically
1.3	The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed.	MPWT Local offices of MONRE and MPWT UDAAs (VUDAA) in pilot cities	Deputy team leader/intermediate treatment/final disposalWater environment management	increased. 3. Security is maintained in the
1.4	The environment and development visions for the pilot cities are formulated.	Other relevant organizations	 Waste collection and transport Community-based urban environmental 	pilot cities.
1.5	The cooperation scenario for the environment and development of the pilot cities are formulated. (*1)	Z. Facilities Offices for experts in Vientiane and pilot cities	 management (1)/environmental education Community-based urban environmental management (2)/pilot project 	
1.6	The ESC Guidelines of Laos are formulated.	huor ones	management (z)/pilot project	





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1.7	The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared. Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities.	Utilities such as electricity, water, sewerage, telephone, etc. of the offices. Data and information	 Baseline survey on urban environmental management Cost of necessary survey Provision of equipment if necessary 	
2.1	The pilot projects for urban environmental management are selected. (*2) The pilot projects are planned.	3. Operation cost	Support for operation cost Training opportunity in Japan and/or ASEAN countries	
2.3	The pilot projects are implemented. The results of the pilot projects are presented.		<pre><from as="" asean="" expected=""></from></pre>	
3.1	The best practices of community-based UEM in Laos are reviewed.		Experts to be dispatched on demand Consultation and joint activities (study tour, data and information)	Pre-conditions
3.2	The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability to Laos is analyzed.		Training opportunity in ASEAN countries (cost sharing with JICA)	All relevant personnel participates the
3.3	The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated.		Support for resource mobilization	project.
3.4	The EEA pilot projects to facilitate Activity 2.2 are planned.			
3.5	EEA Tools for SWM are developed and the implementation system is enhanced.			
3.6	The EEA pilot projects are implemented.			
3.8	The results of the EEA pilot project are analyzed. The EEA pilot projects are presented in collaboration with Activity 2.4			

(*1) Scenarios are to be formulated for SWM in Vientiane Capital, SWM in Luang Prabang District, SWM in Xayabouri District and water environment management in Vientiane Capital.

(*2) Pilot projects are to be implemented for the improvement of SWM in Vientiane Capital, Luang Prabang District and Xayabouri District.



[Objectively Verifiable Indicators and Means of Verifications of PDM(2) for Outputs 2 and 3 (Vientiane Capital)]

Narrative	Objectively Verifiable Indicators	Means of Verification
Summary		
Output 2 Urban environmental management (solid waste	 Indicator 2.1. 3Rs are promoted. On-site composting is implemented in one or more new villages under the instruction of the C/P. Recyclable waste is separately discharged in one or more new villages under the instruction of the C/P. Plastic shopping bag reduction activities are started at one or more new local markets under the instruction of the C/P. 	LPPE Progress Report LPPE Progress Report Survey of the local market
management (SWM)) in the three pilot cities is improved	Indicator 2.2. The solid waste collection system is improved. 1. Waste discharge and collection rule(s) are applied to one or more new villages under the instruction of the C/P. 2. The number of non-serviced households in one or more new villages reduces by 50% under the instruction of the C/P.	Information from the district officers Information from the district officers
based on the Guidelines on ESC.	 Indicator 2.3. The operation of the final disposal sites is improved. An operation plan of the final disposal site is formulated. The final disposal site is operated in accordance with the operation plan. The final disposal site is monitored by the final disposal site monitoring committee twice a year. 	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	 1.1 VUDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of VTE's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-base	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
d urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: To be decided The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: To be decided The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: To be decided The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: To be decided 	 POS POS POS Information from the stalls



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Narrative

Objectively Verifiable Indicators	Means of Verification
Indicator 3.3. The residents cooperate with the waste collection system.	
1. The rate of the households that follow the waste discharge and collection rule to all the households in all the pilot villages: 70%	1. POS

Note:

"New villages" or "new markets" mean the villages or markets which are selected as targets after the pilot projects in the initially selected villages or markets. POS: Public opinion survey

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[Objectively Verifiable Indicators and Means of Verifications of PDM(2) for Outputs 2 and 3 (Luang Prabang)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines	 Indicator 2.1. 3Rs are promoted. On-site composting is implemented in one or more new villages under the instruction of the C/P. Recyclable waste is separately discharged in one or more new villages under the instruction of the C/P. More than 30 hotels participate in the off-site compost project or the plastic shopping bag reduction project. Compost is produced at the off-site compost plant. Plastic shopping bag reduction activities are started at one or more new local markets under the instruction of the C/P. 	 LPPE Progress Report LPPE Progress Report LPPE Progress Report LPPE Progress Report Survey of the local market
on ESC.	 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of LPB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages under the instruction of the C/P. The activities of the collection expansion PP are implemented in one or more new villages under the instruction of the C/P. 	 Waste collection and transportation plan LPPE Progress Report LPPE Progress Report
	 Indicator 2.3. The operation of the final disposal sites is improved. An operation plan of the final disposal site is formulated. The final disposal site is operated in accordance with the operation plan. The final disposal site is monitored by the final disposal site monitoring committee twice a year. 	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	1.1 UDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of LPB District's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-based	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program





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urban environmental
management for SWM
is promoted in the three
pilot cities.
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Narrative Summary	Objectively Verifiable Indicators	Means of Verification
urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: To be decided The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: To be decided The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: To be decided 	 POS POS Information from the stalls
	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management units are established in the of the existing collection improvement pilot villages. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70% 	 Memorandums of unit establishment POS POS

Note:

"New villages" or "new markets" mean the villages or markets which are selected as targets after the pilot projects in the initially selected villages or markets. POS: Public opinion survey





[Objectively Verifiable Indicators and Means of Verifications of PDM(2) for Outputs 2 and 3 (Xayabouri)]

Narrative Summary	Objectively Verifiable Indicators	
Output 2 Urban environmental management (solid waste management (SWM)) in the three	 Indicator 2.1. 3Rs are promoted. On-site composting is implemented in one or more new villages under the instruction of the C/P. Recyclable waste is separately discharged in one or more new villages under the instruction of the C/P. Plastic shopping bag reduction activities are started at one or more new local markets under the instruction of the C/P. 	Means of Verification 1. LPPE Progress Report 2. LPPE Progress Report 3. Survey of the local market
pilot cities is improved based on the Guidelines on ESC.	 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of XYB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages under the instruction of the C/P. The activities of the collection expansion PP are implemented in one or more new villages under the instruction of the C/P. 	 Waste collection and transportation plan LPPE Progress Report LPPE Progress Report
	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee twice a year.	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	 The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	 Indicator 2.5. The following documents are prepared. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. Proposal for financial system improvement necessary for SWM improvement is prepared. 	 UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of XYB District's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-based	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: To be decided The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: To be decided The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: To be decided The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: To be decided 	 POS POS POS Information from the stalls
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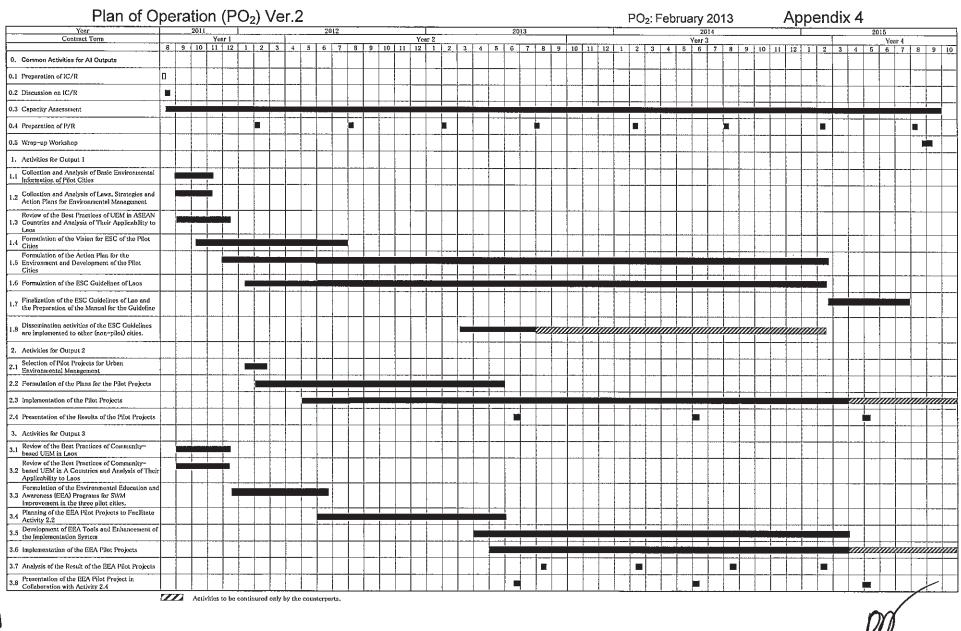


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Narrative Summary	Objectively Verifiable Indicators	Means of Verification
	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management units are established in the of the existing collection improvement pilot villages. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70% or "new markets" mean the villages or markets which are selected as targets after the pilot projects in the initially collected villages.	 Memorandums of unit establishment POS POS

ages or markets which are selected as targets after the pilot projects in the initially selected villages or markets. POS: Public opinion survey







VTE pilot project and Organization responsible

Appendix 5

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible		
1."3Rs" are promoted at generation sources.	I.1 "3Rs" are promoted at	1.1.1 To reduce the amount of kitchen		-Study and selection of pilot area for on-site (home) composting	Done	SJET		
	generation sources	waste and garden waste		-Establish the management system	Done	DONRE		
	to control the waste	at households.		(Assignment of staff)		/priority area district		
	amount generation.			-Selection of participating households	March 2013	DONRE/priority area district		
				-Procurement of home compost barrels	April-May 2013	SJET		
			77.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	-Designing the awareness raising tools (leaflet/equipment)	April-May 2013	DONRE		
			Xaisethha district (1) B.None Sabang	-Procurement of awareness raising tools	April-May 2013	SJET		
			(2) B.Hougsouphab (3) B.Nonsavanh	-Distribution and instruction of home compost barrels	From May 2013	DONRE/priority area district		
			(4) B.Amone	-Dissemination to other area	From 2014	DONRE/priority area district		
		1.1.2 To collect	(+) D.Amone	-Study and selection of pilot area	Done	SJET		
į		recyclable waste separated at generation sources.		-Making rule for collection of recyclable waste and designing the awareness raising tools (leaflet/equipment)	March-April 2013	DONRE/priority area district and VUDAA		
				-Procurement of awareness raising tools	April-May 2013	SJET		
				-Preparation of awareness program	April-May 2013	DONRE/priority area district		
			-Implementation of the program	From May 2013	DONRE/priority area district			
				-Dissemination to other area	From 2014	DONRE/priority area district		
	1.1.3 To avoid using excess packages such as plastic shopping bags.	1	1.1.3 To avoid using excess packages such	excess packages such		-Study and selection of pilot area and pilot shops/markets	Done	SJET
		Anopping Xaisethha district (1) B.None Sabang (2) B.Hougsouphab	-Making rule for reducing of the use of plastic bags and designing the awareness raising tools (leaflet/equipment)	March-April 2013	DONRE/priority area district			
			(3) B.Nonsavanh (4) B.Amone	-Procurement of awareness raising tools	April-May 2013	SJET		
				-Preparation of awareness program	April-May 2013	DONRE/priority area district		
			(5) Hoa Khoua market	-Implementation of the program	From May 2013	DONRE/priority area district		
		_		-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/priority area district		
2. Waste collection	2.1 Improvement of	2.1.1 Improvement of		-Study of existing waste collection system	Done	SJET		
and transportation		existing collection		-Identification of the waste to be collected	Done	VUDAA/priority area district		
system is improved to keep the city clean		system		-Selection of the priority area where new waste collection plan is implemented	Done	VUDAA/priority area district		
and raise its efficiency.			Xaisethha district (1) B.None Sabang (2) B.Hougsouphab	-Formulation of the new waste collection plan based on the waste to be collected and the area	March-April 2013	VUDAA/priority area district		
			(3) B.Nonsavanh (4) B.Amone	-Procurement of leaflet / necessary equipment	April-May 2013	SJET		
				-Implementation new waste collection plan at the priority area	From May 2013	VUDAA/priority area district		
		2.1.2 Improvement of		-Study the existing waste discharge system	Done	SJET		
		existing waste		at the priority area				



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible							
		discharge system		-Plan of the new waste discharge rule based on the waste to be collected and the area	March-April 2013	VUDAA/priority area distr							
				-Publicity of the waste discharge rule	April-May 2013	VUDAA/priority area distr							
				-Procurement of leaflet / necessary material	April-May 2013	VUDAA/priority area distr							
				-Implementation and monitoring of the waste discharge	From May 2013	VUDAA/priority area dist							
	2.2 Expansion of	2.2.1Expansion of		-Clarifying non collection area	Done	SJET							
	waste collection service area.	waste collection system		-Study of the demanding of waste collection service	Done	SJE1							
			Xaisethha district	-Selection of the priority area where new waste collection plan is implemented	Done	VUDAA/priority area dist							
	:		(1) B.None Sabang (2) B.Hougsouphab (3) B.Nonsavanh	-Formulation of the new waste collection plan based on the waste to be collected and the area	March-April 2013	VUDAA/priority area dist							
			(4) B.Amone	-Procurement of waste collection equipment	April-May 2013	SJET							
				-Implementation new waste collection plan at the priority area	From May 2013	VUDAA/priority area dist							
		2.2.2 Establishment of waste discharge rule in waste collection expansion area Xaisethha district (1) B.None Sabang (2) B.Hougsouphab (3) B.Nonsavanh		-Dissemination to other area	From 2014	VUDAA/priority area dist							
			waste discharge rule in waste collection expansion area Xaisethha	waste discharge rule in waste collection expansion area Xaisethha district	-Study existing condition at the priority area	Done	SJET						
						expansion area Xaisethni	expansion area Xaisethna district	-Plan of the new waste discharge rule at the priority area	March-April 2013	VUDAA/priority area dist			
			-Publicity of the waste discharge rule	April-May 2013	VUDAA/priority area dist								
										(3)	(3) B.Nonsavanh (4) B.Amone	-Implementation and monitoring of the waste discharge	April-May 2013
	į		(1) 2.1 2.10.10	-Procurement of waste discharge equipment	May 2013	SJET							
				-Dissemination to other area	From 2014	VUDAA/priority area dis							
	2.3 The proper plan of waste transfer is studied and improved to manage the waste transfer efficiently.	2.3.1 To study and introduce the new transfer station.	-	-No pilot project	-	Seeking for the candidate by VUDAA and DPWT							
	2.4 The sound finance of Solid Waste Management is established to manage proper waste collection and transfer.	2.4.1 To improve existing finance-system regarding waste collection-and-transfer.		-Study existing waste collection fee system Revise the fee system Put-the new fee system into force.		SJET/VUDAA							
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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
3. Final disposal system is improved to	3.1The final disposal site is	3.1.1 To instruct the proper management of		-Study and plan of improvement of KM32 disposal site.	Done	SJET
mitigate adverse	managed properly	existing final disposal		-Procurement of concrete plate	Done	SJET
impacts on the surrounding areas.	to discharge waste properly.	site.	!	-Installation of concrete plate at KM32 disposal site	Done	VUDAA
				-Improvement of access road at KM32 disposal site	Done	SJET
				-Establishment of buffer zone	Done	SJET
				-Preparation of operation plan of KM32 disposal site	From March 2013	SJET
				-Operation of proper landfill site by according to SJET instruction	From March 2013	VUDAA
	}		KM32 existing landfill	-Supplying fuel for heavy equipment	From March 2013	VUDAA
			site	-Assignment of civil engineer at KM32 disposal site	From March 2013	VUDAA
		2127		-Establishment of monitoring system	From March 2013	MONRE/DONRE
		3.1.2 To manage waste pickers and improve		-Study of waste pickers current condition	Done	SJET
		their working condition		-Procurement of ID card/ vaccine injection	From March 2013	SJET
		men working condition		-Organizing the waste pickers/ID card	From March 2013	VUDAA
	3.2 The sewage	2217.		-Implementation of vaccine injection for waste pickers	From March 2013	VUDAA
	3.2 The sewage of the sewage of the septic tank is treated properly to treatment facility for septiment facility for the sewage of the sewage	r	-Study and plan of septic tank sludge treatment	Done	SJET	
	mitigate around	ate around the sewage from septic tanks		-Construction of septic tank sludge treatment facility	March-May 2013	SJET
	3.3 The sound			-Operation of septic tank sludge treatment facility	From March 2013	VUDAA
	finance———————————————————————————————————	finance———system regarding—the—final disposal-site.		-Study existing waste collection—fee system— -Revise-the-fee-system- -Put-the-new-fee-system-into-force-		SJET/VUDAA
4. Health care waste management is	4.1-Health-care- waste-is-separated-	4.1.1 To establish the separation rule of health		-Preparation-of-waste-separation-		MOH (this is outside of
improved.	properly to prevent-	care-waste-at-generation-		guidelines- -Instruction-and-monitoring-of-waste-		LPPE)
•	the expansion of	source-and-monitoring-		separation using the guidelines to hospitals		DOH-(this-is-outside-of- LPPE)
	infectious-pathogen-	system.		-Confirmation-of-hospitals-which-use the-		DONRE, DOH, VUDAA
	at-generation- sources.			incineration service (PP's target-hospitals) and establish the infectious-waste		target-hospitals
ļ				incineration-committee-by-September- 2013		



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
				-Preparation of monitoring sheets to-		DONRE-(confirmation-is-
			1	monitor-waste-separation-practices-at-the-		required-if-such-monitoring
				target-hospitals-and-implementation-of-		generation-sources-is-in-the-
				monitoring.		scope of its jurisdiction)-
				-Preparation-of-plan-of-waste-containers-		DOH-and-hospitals-
				distribution		BOTT-una-nospitalis
				-Appraisal-of-the-container distribution-		SJET
				plan-and-procurement-of-containers-for the		03137
				target-hospitals		
				-Implementation-of-waste-separation-		Target-hospitals
				following the guidelines.		Turger-nospituis
				-Preparation-of-monitoring-sheets-to-		DONRE
				monitor-waste-separation-practices-at-the-		Bornes
	ļ			target-hospitals-and-implementation-of-		
				monitoring.		
				-Giving-advices-		SJET
	4.2 Health care	4.2.1 To establish the	Targets medical	-Preparation of the plan to collect and	From February 2013-	VUDAA
	waste is transferred	collection and	institutions (MIs)	transport infectious and non-infectious	1 Tom February 2013"	TODAK
	properly to prevent	transportation system	mistracións (1713)	waste from target hospitals (such as date		
	the expansion of	of health care waste		of the week for collection, transportation		
	infectious pathogen	and monitoring system.		route, waste delivery recording format,	J	
		n the town.	etc.)			
	in the town.			-Implementation of the collection and	From March 2013	VUDAA
				transportation plan	FIUII Maigi 2015	VODAA
			-Preparation of monitoring sheets and	From March 2013	DONRE	
			implementation of monitoring	FIGHT March 2015	DONKE	
				-Giving advices	From February 2013-	SJET
	4.3 Health care	4.3.1 To establish the		-Operation system establishment	February 2013-	VUDAA
	waste is disposed	treatment and disposal		(assignment of personnel, operation	reditially 2013-	VODAA
	properly to prevent	system of health care		recording format, procedure of waste		
	the expansion of	waste and monitoring		reception, procedure of waste residue		
	infectious pathogen	system.	KM32 existing landfill	removal, etc.)		
	at the disposal site.	site site	-Operation and maintenance .	From March 2013	THE A A	
	at the disposition.			-Preparation and mannenance : -Preparation of monitoring sheets and	From March 2013	VUDAA
		implementation of n			From March 2013	DONRE
			-Giving advices	From February 2013-	SJET	
	4.4-The-sound-	4.4.1-To-establish-	liah	-Establishment of pricing and payment-	From reditiary 2013-	
	finance-is-	sound-finance-system-		rules—		DONRE, DOH, VUDAA-and
	established-to-	regarding-treatment-of-		-Implementation of pricing and payment-		target-hospitals-(committee)
	manage-the-	health-care-waste:		rules		VUDAA and hospitals
	treatment of health			-Keeping-the-account of the PP and		VUDAA
	care-waste-properly.			reporting-it-to-the-committee-		
	1			-Review of the financial-sustainability and		DONRE, DOH, VUDAA and
				revision of pricing if necessary		target-hospitals (committee)
				-Giving-advices-		SJET
Institutional system	5.1 The	5.1.1 To codify the		-Study existing decrees, regulations	March-December	SJET
nprovement	responsibilities that	responsibilities of each	VTE Capital	and rules	2013	



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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
	the relevant stakeholders should bear to achieve a	stakeholder and build consensus.	1	-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/VUDAA/DONRE
	goal of SWM are clarified.			- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	VUDAA/DONRE/SJET
				-Put the proposal into force.	From 2014	VUDAA/DONRE
	5.2 Financial system	5.2.1 Preparation of		-Study existing financial system		
	SWM is improved. system improvement	proposals for financial system improvement necessary for SWM	VTE Capital	-Examination of improvement needs on the financial system.	March-December 2013	SJET
		improvement		-Preparation of proposals for for financial system improvement	June-December 2013	VUDAA/DONRE/SJET
				-Put the new fee system into force.	From 2014	VUDAA/DONRE





LPB pilot project and Organization responsible

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
1."3Rs" are promoted	1.1"3Rs" are promoted at on-site to control the waste amount generation.	1.1.1 To reduce the amount of kitchen waste and garden waste at households	(1)B.Vat Thath; (2)B.Phongvon:	-Study and selection of pilot area for on-site (home) composting	Done	SJET
				-Establish the management system (Assignment of staff)	March 2013	DONRE/UDAA
				-Selection of participating households	March 2013	DONRE/UDAA
				-Procurement of home compost barrels	April-May 2013	SJET
				-Designing the awareness raising tools (leaflet/equipment)	April-May 2013	DONRE/UDAA
				-Procurement of awareness raising tools	April-May 2013	SJET
				-Distribution and instruction of home compost barrels	From May 2013	DONRE/UDAA
				-Dissemination to other area	From 2014	DONRE/UDAA
		1.1.2 To collect recyclable waste separated at generation sources.	(1)B.Phongvon:	-Study and selection of pilot area	Done	SJET
				-Making rule for collection of recyclable waste and designing the awareness raising tools (leaflet/equipment)	March-April 2013	DONRE/UDAA
				-Procurement of awareness raising tools	April-May 2013	SJET
				-Preparation of awareness program	April-May 2013	DONRE/UDAA
				-Implementation of the program	April-May 2013	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
		1.1.3 To avoid using excess packages such as plastic shopping bags.	(1)B. Pakham (Thaheua market) (2) Hotels registered to association	-Study and selection of pilot area and pilot shops/markets	Done	SUBT
				-Making rule for reducing of the use of plastic bags and designing the awareness raising tools (leaflet/equipment)	March-April2013	DONRE/UDAA
				-Procurement of awareness raising tools	April-May 2013	SJET
				-Preparation of awareness program	April-May 2013	DONRE/UDAA
				-Implementation of the program	From May 2013	DONRE/UDAA
	10 5 1			-Dissemination to other area	From 2014	DONRE/UDAA
	1.2 Recycling is promoted at off-site by composting.	1.2.1 To reduce the final disposal amount of kitchen waste from hotels	(1) Hotels registered to association (2) Compost plant at KM8 existing landfill site	-Study and plan of off-site compost	Done	SIET
				-Selection of participating hotels, guest houses and restaurants	March 2013	DONRE/UDAA
				-Construction of compost plant	March-May 2013	SJET
				-Implementation of organic waste collection and operation of off-site composting	From May 2013	UDAA
2.Waste collection	2.1 Improvement of existing collection and discharge system	2.1.1 Improvement of existing collection system	(1)B.Hua Xieng (2)B.Wat Thad (3)B.A Phay	-Study of existing waste collection system	Done	SJET
system is improved				-Identification of the waste to be collected	Done	UDAA
through the strengthening of				-Selection of the priority area where new waste collection plan is implemented	Done	UDAA
collection service capacity and				-Formulation of the new waste collection plan based on the waste to be collected	March-April 2013	UDAA



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
enhancement of public cooperation				and the area	Somedific	Organization Responsible
				-Procurement of leaflet / necessary	April-May 2013	SJET
	ļ			material	1 14111 14103 2015	5521
	ļ			-Implementation new waste collection	From May2013-	UDAA
				plan at the priority area	1 Tom May 2015-	ODAA
				-Dissemination to other area	F. 2014	115
		2.1.2 Improvement of		-Study the existing waste discharge system	From 2014	UDAA
		existing waste discharge system	(1)B.Hua Xieng (2)B.Wat Thad (3)B.A Phay	at the priority area	Done	SJET
				-Plan of the new waste discharge rule	March-April 2013	7172
				based on the waste to be collected and the	March-April 2013	UDAA
				area		
				-Publicity of the waste discharge rule	April-May 2013	UDAA
				-Procurement of leaflet / necessary	April-May 2013	
				equipment	April-iviay 2015	UDAA
				-Implementation and monitoring of the	From May2013-	UDAA/DONRE
				waste discharge	Profit May2013-	UDAA/DONKE
				-Dissemination to other area	F 2014	
	2.2 Expansion of	2.2.1 Expansion of	<u> </u>	-Clarifying non collection area	From 2014	UDAA
	waste collection	waste collection system	To be decided:	-Construction of workshop building	Done	SJET
	service area.			-Construction of workshop building	March -May2013	SJET
				-Procurement of equipment and material for making 5m3 container	March -May2013	SJET
				-To make 5m3 container	34. 1. 34. 0010	
				-Study of the demanding of waste	March -May2013	UDAA
				collection service	April 2013	SJET
				-Selection of the priority area where new) feet 2012	TIPS
				waste collection plan is implemented	May 2013	UDAA
				-Formulation of the new waste collection	Inn. 2012	TIPO 4
				plan based on the waste to be collected	June 2013	UDAA
				and the area		1
				-Implementation new waste collection	From July 2013	UDAA
				plan at the priority area	From July 2013	UDAA
				-Dissemination to other area	From 2014	UDAA
		2.2.2Establishment of		-Plan of the new waste discharge rule at	June 2013	UDAA
		waste discharge rule in		the priority area (including fee collection)	Julie 2015	UDAA
		waste collection	i	-Publicity and discussion about the waste	June 2013	UDAA
		expansion area	To be decided:	discharge rule (including fee collection)	Julie 2013	ODAA
		· 1	10 00 111100	-Procurement of discharge equipment	July 2013	UDAA
				-Implementation and monitoring of the	From July 2013	UDAA
				waste discharge	110m 3diy 2015	ODAA
				-Dissemination to other area	From 2014	UDAA
	2.3 The sound	2.3.1 To improve		-Study existing waste collection fee		SJET/UDAA
	finance—of—Solid	existing finance		system-) January
	Waste-Management	system regarding		-Revise-the-fee-system-		
	is—established—to	waste -collection and		-Put-the-new-fee system-into-force,		
	manageproper	transfer.		7		
	waste-collection-and					
	transfer .					
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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
					Donoutio	Organization Responsible
3. Final disposal system is improved to mitigate adverse	3.1The final disposal site is	3.1.1 To instruct the proper management of		-Study and plan of improvement of KM8 disposal site	Done	SJET
impacts on the	managed properly to dispose of waste	existing final disposal		-Procurement of concrete plate	Done	SJET
surrounding areas.	properly.	site.		-Installation of concrete plate at KM8 disposal site	Done	UDAA
				-Construction of new access road at KM8 disposal site	Done	SJET
		1		-Construction of new disposal cell	Done	SJET
				-Site clearance for weigh bridge	Done	UDAA
	ļ			-Installation of weigh bridge	Done	SJET
				-Operation of weigh bridge	From March2013-	UDAA
			KM8 existing disposal site	-Preparation of operation plan of KM8 disposal site	From March2013-	SJET
				-Operation of proper landfill site by according to SJET instruction	From March2013-	UDAA
				-Supplying fuel for heavy equipment	From March2013-	UDAA
				-Assignment of civil engineer at KM8 disposal site	From March2013-	UDAA
				-Establishment of monitoring system	From March2013-	MONRE/DONRE
		3.1.2 To manage waste		-Study of waste pickers current condition	Done	SJET
		pickers and improve		-Procurement of ID card/ vaccine injection	From March2013-	SJET
		their working		-Organizing the waste pickers/ID card	From March2013-	UDAA
		condition		-Implementation of vaccine injection for waste pickers	From March2013-	UDAA
	candidate site for new final disposal site in accordance with development plan, if	study at expected candidate site for new final disposal site in accordance with development plan, if necessary	-	-No pilot project at this moment	-	None
	3.2 The sewage from septic tank is	3.2.1 To introduce and manage the proper	KM8 existing disposal site	-Study and plan of septic tank sludge treatment	Done	SJET
	treated properly to mitigate around	treatment facility for the sewage from septic	į	-Construction of septic tank sludge treatment facility	March-May 2013	SJET
	aquatic impact.	tanks		-Operation of septic tank sludge treatment facility	From May2013	UDAA
	3.3 The sound finance is established to manage the final disposal site properly.	3.3.1—To improve the finance system regarding the final disposal-site.		-Study existing waste collection fee system Revise the fee system Put the new fee system into force.		SJETAVUDAA
Health care waste management is		4-1-1-To establish-the- separation-rule-of-		-Preparation of waste separation- guidelines:		MOH-(this-is-outside-of- LPPE)

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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
improved.	to prevent-the-	health-care waste-at-		-Instruction and monitoring of waste-		DOH-(this is outside-of-
	expansion of	generation-source-and-		separation-using the guidelines to-hospitals		LPPE)
	infectious-pathogen-	monitoring-system.	ļ	-Confirmation-of-hospitals-which-use-the-		DONRE, DOH, UDAA and
	at-generation-sources.			incineration-service-(PP's-target-hospitals)		target-hospitals
				and establish the infectious waste-		• .
				incineration-committee		
]	-Preparation-of monitoring sheets to-		DONRE (confirmation-is-
				monitor waste-separation practices at the-		required if such-monitoring-
				target-hospitals-and-implementation-of-		at-generation-sources-is-in-th
				monitoring.	,	scope of its jurisdiction)
				-Preparation of plan-of-waste-containers-		DOH and hospitals-
				distribution		
				-Appraisal of the container distribution-		SJET
				plan-and-procurement-of-containers-for-the-		
				target-hospitals		
				-Implementation of waste-separation-		Target-hospitals
•				following the guidelines.		100
				-Preparation of monitoring sheets to- monitor waste separation practices at the		DONRE
				target-hospitals-and-implementation-of-		
				monitoring.		
				-Giving-advices-		SJET
	4.2 Health care waste	4.2.1 To establish the	Targets medical	-Preparation of the plan to collect and	From March 2013-	UDAA
	is transferred	collection and	institutions (MIs)	transport infectious and non-infectious	From March 2015-	UDAA
	properly to prevent	transportation system	motitations (14115)	waste from target hospitals (such as date		
	the expansion of	of health care waste		of the week for collection, transportation		
	infectious pathogen	and monitoring		route, waste delivery recording format,		
	in the town.	system.		etc.)		
		•		-Implementation of the collection and	From March 2013-	UDAA
				transportation plan		02.2.
				-Preparation of monitoring sheets and	From March 2013-	DONRE
				implementation of monitoring		
	•			-Giving advices	From February 2013-	SJET
	4.3 Health care waste	4.3.1 To establish the	Incinerator at	-Operation system establishment	February 2013-	UDAA
	is disposed properly	treatment and disposal	Provincial hospital	(assignment of personnel, operation		
	to prevent the	system of health care		recording format, procedure of waste		
	expansion of	waste and monitoring		reception, procedure of waste residue		
	infectious pathogen	system.		removal, etc.)		
	at the disposal site.			-Operation and maintenance.	From March 2013-	UDAA
				-Preparation of monitoring sheets and implementation of monitoring	From March 2013-	DONRE
				-Giving advices	From February 2013-	SJET
	4.4-The-sound-	4.4.1 To establish		-Establishment of pricing and payment		DONRE, DOH, UDAA and
	finance-is-established-	sound finance-system-		rules—		target hospitals (committee)
	to-manage-the-	regarding-treatment-of-		-Implementation-of-pricing-and-payment-	100	UDAA-and-hospitals
	treatment-of-health-	health care waste.		rules		
	care-waste-properly.		!	-Keeping-the-account-of-the-PP-and-		UDAA
				reporting it-to-the-committee-		



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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
				-Review of the financial-sustainability-and- revision-of pricing if necessary		DONRE, DOH, UDAA-and target hospitals (committee)
	1			-Giving-advices-		SJET
improvement		responsibilities of each		-Study existing decrees, regulations and rules	March-December 2013	SJET
	the relevant stakeholders should	stakeholder and build consensus.		-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/UDAA/DONRE
ļ	bear to achieve a goal of SWM are clarified.		LPB District	- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	UDAA/DONRE/SJET
				-Put the proposal into force.	From 2014	UDAA/DONRE
	5.2 Financial system necessary for proper	proper proposals for financial system improvement necessary for SWM	LPBB District	-Examination of improvement needs on the financial system.	March-December 2013	SJET
	SWM is improved.			-Preparation of proposals for for financial system improvement	June-December 2013	UDAA/DONRE/SJET
		improvement		-Put the new fee system into force.	From 2014	UDAA/DONRE



XYB pilot project and Organization responsible

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
1."3Rs" are promoted at generation sources.	1.1 "3Rs" are promoted at	1.1.1 To reduce the amount of kitchen		-Study and selection of pilot area for on-site (home) composting	Done	SIET
	generation sources to control the waste	waste and garden waste at households.		-Establish the management system (Assignment of staff)	March 2013	DONRE/UDAA
	amount generation.			-Selection of participating households	March 2013	DONRE/UDAA
				-Procurement of home compost barrels	April-May 2013	SJET
				-Designing the awareness raising tools (leaflet/equipment)	April-May 2013	DONRE/UDAA
				-Procurement of awareness raising tools	April-May 2013	SJET
			(1)B.Thinh	-Distribution and instruction of home compost barrels	From May 2013	DONRE/UDAA
			(2)B.Phapoom (3) B.Natonoi	-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
		1.1.2 To collect		-Study and selection of pilot area	Done	SJET
		recyclable waste		-Making rule for collection of recyclable	March-April 2013	DONRE/UDAA
		separated at generation sources.		waste and designing the awareness raising		
		sources.		tools (leaflet/equipment)		
				-Procurement of awareness raising tools	April-May 2013	SJET
		;		-Preparation of awareness program	April-May 2013	DONRE/UDAA
				-Implementation of the program	April-May 2013	DONRE/UDAA
***************************************				-Dissemination to other area (from July	From 2014	DONRE/UDAA
				2013 onwards)		
[1.1.3 To avoid using		-Study and selection of pilot area and pilot	Done	SJET
		excess packages such as plastic shopping		shops/markets		
		bags.		-Making rule for reducing of the use of	March 2013	DONRE/UDAA
		0450.	(1)B.Thinh	plastic bags and designing the awareness		
			(2)B.Phapoom	raising tools (leaflet/equipment)		
İ			(3)B.Natonoi	-Procurement of awareness raising tools	April-May 2013	SJET
			(4)Xayabouri market	-Preparation of awareness program	April-May 2013	DONRE/UDAA
				-Implementation of the program	From May 2013	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
2.Waste collection	2.1 Improvement of	2.1.1 Improvement of		-Study of existing waste collection system	Done	SJET
system is gradually	existing collection	existing collection		-Identification of the waste to be collected	Done	UDAA
improved to keep the city clean.		system	(1)B. Simuang Khoun (2)B. Done Mai	-Selection of the priority area where new waste collection plan is implemented	Done	UDAA
			(3)B. Boung	-Formulation of the new waste collection	March-April 2013	UDAA
			(4)B. Kaeng	plan based on the waste to be collected		
			(5)B. Na Tor Noi	and the area		
				-Procurement of leaflet / necessary material	April-May 2013	SJET



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
			110110,0000.00	-Implementation new waste collection plan at the priority area	From May2013	UDAA UDAA
				-Dissemination to other area	From 2014	UDAA
		2.1.2 Improvement of existing waste		-Study the existing waste discharge system at the priority area	Done	SJET
		discharge system	(1)B. Simuang Khoun (2)B. Done Mai	-Plan of the new waste discharge rule based on the waste to be collected and the area	March-April 2013	UDAA
	}		(3)B. Boung	-Publicity of the waste discharge rule	April-May 2013	UDAA
			(4)B. Kaeng (5)B. Na Tor Noi	-Procurement of leaflet / necessary equipment	April-May 2013	UDAA
				-Implementation and monitoring of the waste discharge	From May2013-	UDAA/DONRE
				-Dissemination to other area	From 2014	UDAA
	2.2 Expansion of	2.2.1Expansion of		-Clarifying non collection area	Done	SJET
	waste collection	waste collection		-Construction of work shop building	March -May2013	SJET
	service area.	system		-Procurement of equipment and material for making 5m3 container	March -May2013	SJET
				-To make 5m3 container	March -May2013	UDAA
			To be decided:	-Study of the demanding of waste collection service	April 2013	SJET
			To be decided.	-Selection of the priority area where new waste collection plan is implemented	May 2013	UDAA
				-Formulation of the new waste collection plan based on the waste to be collected and the area	June 2013	UDAA
				Implementation new waste collection plan at the priority area	From July 2013	UDAA
) mm ·		-Dissemination to other area	From 2014	UDAA
		2.2.2Establishment of waste discharge rule in		-Plan of the new waste discharge rule at the priority area (including fee collection)	June 2013	UDAA
		waste collection expansion area	To be decided:	-Publicity and discussion about the waste discharge rule (including fee collection)	June 2013	UDAA
				-Procurement of discharge equipment	July 2013	UDAA
				-Implementation and monitoring of the waste discharge	From July 2013	UDAA
	0.0 000	A A 4		-Dissemination to other area	From 2014	UDAA
	2.3—The—sound finance—of—Solid Waste—Management is—established—to manage—proper waste-collection-and transfer.	2.3.1—To improve existing finance system regarding waste collection—and transfer.		-Study—existing—waste—collection—fee system— -Revise the fee-system- -Put the new-fee-system-into-force-		SJET/UDAA
3. Final dispos system is gradua	ly disposal site is	3.1.1 To instruct the proper management of	KM9 existing disposal	-Study and plan of improvement of KM9 disposal site	Done	SUET
improved	in managed properly to	existing final disposal	site	-Procurement of concrete plate	Done	SJET
accordance with t	ne dispose of waste	site.		-Installation of concrete plate at KM9	Done	UDAA





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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
increase of waste	properly.		11101110,000	disposal site	AN FLANDA STATE OF THE STATE OF THE	Organization Responsible
collection amount.	` ` `			-Construction of site office	February 2013	SJET
	ļ			-Operation of site office	From March2013-	UDAA
				-Preparation of operation plan of KM9 disposal site	From March2013-	SJET
				-Operation of proper landfill site by according to SJET instruction	From March2013-	UDAA
				-Supplying fuel for heavy equipment	From March2013-	UDAA
				-Assignment of staff and guards at KM disposal site	From March2013-	UDAA
				-Establishment of monitoring system	From March2013-	MONRE/DONRE
		3.1.2 To manage waste		-Study of waste pickers current condition	Done	SJET
		pickers and improve		-Procurement of ID card/ vaccine injection	From March2013-	SJET
		their working condition	KM9 existing disposal site	-Organizing the waste pickers/ID card	From March2013-	UDAA
				-Implementation of vaccine injection for waste pickers	From March2013-	UDAA
	3.2 The sewage from septic tank is treated properly to	3.2.1 To introduce and manage the proper	****	-Study and plan of septic tank sludge treatment	Done	SJET
	mitigate around aquatic impact.	treatment facility for the sewage from septic tanks	KM9 existing disposal site	-Improvement of septic tank sludge treatment facility	March-May 2013	SJET
				-Operation of septic tank sludge treatment facility	From May2013	UDAA
	3.3 The sound finance is established to manage the final disposal site properly.	3.3.1—To improve the finance system regarding the final disposal-site.		-Study existing—waste—collection—fee system— -Revise-the-fee-system— -Put the new-fee-system-into-force.		SJET/UDAA
4. Health care waste management is	4.1 Health-care-waste is-separated properly	4.1.1 To establish the separation rule of		-Preparation of waste separation- guidelines.	. "	MOH (this-is-outside of- LPPE)
improved.	to-prevent-the-	health-care-waste-at-		-Instruction and-monitoring of waste-		DOH (this is outside of
	expansion-of- infectious-pathogen-	generation-source-and-		separation-using the guidelines to hospitals		LPPE)
	at generation-sources.			-Confirmation of hospitals which use the infectious waste-pit (PP's target hospitals) and establish the infectious waste-safe-disposal committee		DONRE, DOH, UDAA and target hospitals
				-Preparation-of-monitoring-sheets-to- monitor-waste-separation practices-at-the- target-hospitals-and-implementation-of- monitoring		DONRE—(confirmation-is- required-if-such-monitoring- at generation-sources is in the scope-of-its-jurisdiction)
				-Preparation-of-plan-of-waste-containers- distribution		DOH-and-hospitals-
				-Appraisal-of-the-container distribution- plan-and-procurement-of-containers-for-the- target-hospitals		SJET
				-Implementation-of-waste-separation- following-the-guidelines:		Target hospitals

60

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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
				-Preparation of monitoring sheets to- monitor-waste separation-practices at the- target hospitals and implementation of- monitoring.		DONRE
				-Giving-advices-		SJET
	4.2 Health care waste is transferred properly to prevent the expansion of infectious pathogen in the town.	4.2.1 To establish the collection and transportation system of health care waste and monitoring	Targets medical institutions (MIs)	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.)	From March2013-	UDAA
		system.		-Implementation of the collection and transportation plan	From March2013-	UDAA
				-Preparation of monitoring sheets and implementation of monitoring	From March2013-	DONRE
				-Giving advices	From March2013-	SJET
	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen	4.3.1 To establish the treatment and disposal system of health care waste and monitoring	KM9 existing landfill	-Operation system establishment (preparation of infectious waste pit, instruction to site operators, operation recording format, procedure of waste reception, etc.)	From March2013-	UDAA
	at the disposal site. system.	system.	site	-Operation and maintenance. (to be started by March 2013)	From March2013-	UDAA
				-Preparation of monitoring sheets and implementation of monitoring	From March2013-	DONRE
				-Giving advices	From March2013-	SJET
	4.4 The sound- finance is established	4.4.1-To-establish- sound-finance system-		-Establishment-of-pricing-and-payment- rules		DONRE, DOH, UDAA-and- target-hospitals-(committee)
	to manage-the- treatment-of-health-	regarding treatment of health care-waste.		-Implementation of pricing-and-payment- rules	wagaa ayaa ayaa ayaa ayaa ayaa ayaa ayaa	UDAA and hospitals
	care-waste-properly.			-Keeping the account of the PP and reporting it to the committee		UDAA
				-Review of the financial sustainability and revision-of-pricing-if-necessary		DONRE, DOH, UDAA and target-hospitals-(committee)
i.Institutional system mprovement	5.1 The responsibilities that	5.1.1 To codify the responsibilities of each		-Giving-advices- -Study existing decrees, regulations and rules	March-December 2013	SJET SJET
•	the relevant stakeholders should	stakeholder and build consensus.		-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/UDAA/DONRE
bear to achieve a goal of SWM are clarified.		XYB District	- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	UDAA/DONRE/SJET	
				-Put the proposal into force.	From 2014	UDAA/DONRE
	5.2 Financial system necessary for proper	5.2.1 Preparation of proposals for financial	XYB District	-Examination of improvement needs on the financial system.	March-December 2013	SJET
	SWM is improved.	system improvement necessary for SWM	7115 District	-Preparation of proposals for for financial system improvement	June-December 2013	UDAA/DONRE/SJET



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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
		improvement		-Put the new fee system into force.	From 2014	UDAA/DONRE
	<u></u>					

MINUTES OF MEETINGS FOR THE FIFTH TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Luang Prabang, 20th August 2013

Mr. Susumu SHIMURA

Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Vanhxay PHIOMANYVONE

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Fifth Technical Committee Meeting on the Project

The fifth technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 20th August 2013 at Agriculture and Forestry Meeting Room of Luang Prabang Province. The Project Manager of the C/P Team, Mr Vanhxay PHIOMANYVONE Deputy Director of Pollution Management Division, Pollution Control Department of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The fifth technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 Amendment of Member of Counterpart (C/P) Team

The Project Manager informed that the appointments of following members as the counterpart (C/P) personnel were amended in accordance with personal changes by Agreement on Appointment of Staff to LPPE issued by DG of PCD, MONRE on 31st July 2013.

Assignment	Name	Position and Organization
Project Manager	Mr. Vanhxay PHIOMANYVONE	Deputy Director of Pollution Management Division, PCD, MONRE
Project Coordinator	Mr. Noudeng VONGDALA	Staff of Pollution Management Division, PCD, MONRE
Project Coordinator	Mr. Sivanh KHONESAVANH	Staff of Pollution Management Division, PCD, MONRE
Project Coordinator	Mr. Nakkkalin VORASARN	Staff of Technical Support Division, PCD, MONRE
Project Coordinator	Ms. Phatsada KHOUNPHONEPAKDI	Staff of Pollution Management Division, PCD, MONRE

Table1: Amended Member of Counterpart (C/P) Team

Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
1.5 Formulation of the Cooperation Scenario for the Environment and Development of the Pilot Cities	Deputy Director of Pollution Management Division, PCD, MONRE Mr. Vanhxay PHIOMANYVONE	Department of Natural Resources and Environment of VTE: 1. Mr. Vilavong KENSOULINE 2. Mrs. Khamla Thammavong Department of Public Works and Transport of VTE: 1. Mr. Somkhit Meungpak 2. Ms. Bouavone Luangkho Vientiane Urban Development and Administration: 1. Mr. Sonethavy Phimmasane 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethsa	Department of Public Works and Transport of XYB: Mr PhouangKham PHILAKET
1.6 Review of the ESC Guidelines of Laos	Deputy Director of Pollution Management Division, PCD, MONRE Mr. Vanhxay PHIOMANYVONE	Department of Natural Resources and Environment of VTE: 1. Mr. Vilavong KENSOULINE 2. Mrs. Khamla Thammavong Department of Public Works and Transport of VTE: 1. Mr. Sonethavy Phinmasanc 2. Mr. Kaysone Chanthalath Vientiane Urban Development and Administration: 1. Mr. Sonethavy Phinmasane 2. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethsan Department of Public Works and Transport of LPB: Mr. Boumpheng Chidiaphone	District vice governor of XYB district Mr, SomNuk Xaynathee Department of Public Works and Transport of XYB; Mr PhouangKham PHILAKET
1.7 Finalization of the	Deputy Director of Pollution Management	Department of Natural Resources and Environment of VTE:	Department of Natural Resources and Environment of LPB	Urban Development and Administration Agency:

23

Activities ESC Guidelines of	Central Government f Division, PCD, MONRE	Vientiane Capital (VTN) 1. Dr. Bangone Xayyalath	Luang Prabang (LPB) Mr.Chanthavong Phonnachit	Xayabouri (XYB)
Laos and the Preparation of the Manual for the Guidelines	Mr. Vanhxay PHIOMANYVONE	2. Mrs. Khamla Thanmavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dethsongkham Thanmavong 2. Mr. Oudone Ngengyannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath		Mr Bounkhong Phongsavanh
1.8 Dissemination of the ESC Guidelines to other (non-pilot) cities	Deputy Director of Pollution Management Division, PCD, MONRE Mr. Vanhxay PHIOMANYVONE	Department of Natural Resources and Environment of VTE; 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE; 2. Mr. Dethsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration; 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit	Urban Development and Administration Agency; Mr Bounkhong Phongsavanh
2.2 Planning of the Pilot Projects	Staff of Pollution Management Division, PCD, MONRE Mr, Noudeng VONGDALA and Mr. Sivanh KHONESAVANH	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Urban Development Administration Authority Ms.Kaisorn Keopraserth	Urban Development and Administration Agency: Mr.Phathanong Sonephan
2.3 Implementation of the Pilot Projects	Staff of Pollution: Management Division, PCD, MONRE Mr. Noudeng VONGDALA, Mr. Sivanh KHONESAVANH and Mş. Phatsada KHOUNPHONEPAKDI	Department of Public Works and Transport of VTE: 2. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Urban Development Administration Authority Mr.Phoumy Orpethsan Urban Development Administration Authority Ms.Kaisom Keopraserth	Urban Development and Administration Agency: Mr.Phathanong Sonephan
2.4 Presentation of the Results of the Pilot Projects	Staff of Pollution Management Division, PCD, MONRE Mr. Noudeng VONGDALA and Mr. Sivanh KHONESAVANH	Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Natural Resources and Environment of LPB Mr. Chanthavong Phonnachit Urban Development Administration Authority Mr. Phoumy Orpethaan	Urban Development and Administration Agency: Mr.Phathanong Sonephan
3.3 Formulation of the Environmental Education and Awareness Program for SWM improvement in the hree pilot cities	Staff of Pollution Manaycment Division, PCD, MONRE Mr. Noudeng VONGDALA and Mr. Sivanh KHONESAVANH	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE; 1. Mr. Dethsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr. Phathanong Sonephan
	Staff of Pollution Management Division	Department of Natural Resources and Environment of VTE:	Department of Public Works and Transport of LPB	District vice governor of XYB district

Activities	Central Government	Vientiane Capital (VTN)	Luang Prabang (LPB)	Xayabouri (XYB)
Pilot Projects for SWM to Facilitate Activity 2.2	PCD, MONRE Mr. Noudeng VONGDALA and Mr. Sivanh KHONESAVANH	1. Dr. Bangone Xayarath 2. Mrs. Khamia Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvannavong 3. Ms. Bouavone Luangkhot 4. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisom Keopraserth	Mr.SomNuk Xaynathe
3,5 Development of EEA Tools for SWM and Enlancement of the Implementation System	PCD, MONRE	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE Department of Public Works and Transport of VTE: 1. Mr. Dedsongkham Thammavong 2. Mr. Oudone Ngengvaunavong 2. Ms. Bouavone Luangkhot 3. Mr. Somkhit Meungpak Vientiane Urban Development and Administration: 1. Mr. Nousone Meunviseth 2. Mr. Sonethavy Phimmasane 3. Mr. Kaysone Chanthalath	Department of Public Works and Transport of LPB: Mr. Phoutthasom Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh
3.6 Implementation of the EEA Pilot Projects	Staff of Pollution Mapagement Division, PCD, MONRE Mr. Noudeng VONGDALA, Mr. Sivanh KHONESAVANH and Ms. Phatsada KHOUNPHONEPAKDI	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	Department of Public Work and Transport Mr Vilaysak Linthavong
3.7 Analysis of the Result of the EEA Pilot Project	Staff of Pollution Management Division, PCD; MONRE Mr. Nouden VONGDALA, Mr. Sivanh KHONESAVANH and Ms. Phatsada KHOUNPHONEPAKDI	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thammavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Mr. Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority Ms. Kaisorn Keopraserth	District vice governor of XYB district Mr.SomNuk Xaynathee
3.8 Presentation of the EEA Pilot Project in Collaboration with Activity 2.4	Staff of Pollution Management Division PCD_MONRE Mi-Noudeng VONGDALA, Mr. Siyanh KHONESAVANH and Ms. Phatsada KHOUNBHONEPAKDI	Department of Natural Resources and Environment of VTE: 1. Dr. Bangone Xayyalath 2. Mrs. Khamla Thanmavong 3. Mr. Vilavong KENSOULINE	Department of Public Works and Transport of LPB: Phoutthasorn Manophat Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan Urban Development Administration Authority Mr. Santisouk PHOMMACHANH Urban Development Administration Authority. Ms. Kaisorn Keopraserth	Urban Development and Administration Agency: Mr Bounkhong Phongsavanh

The SJET acknowledged the appointment.

2.3 Amendment of Member of Technical Committee (TC)

The Project Manager informed that the appointments of following technical committee members were amended in accordance with by Agreement on Appointment of Staff to LPPE issued by DG of PCD, MONRE on 31st July 2013.

Table2: Amended Member of Technical Committee (T/C)

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Chairperson	Deputy Director of Pollution Management Division, PCD, MONRE Mr. Vanhxay PHIOMANYVONE	Department of Natural Resources and Environment of XYB Dr. Bagong on Sayarath	of LPB	Department of Natural Resources and Environment of XYB Ms. Khamphew Phanthayong

43~

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Member	Planning/Ministry of Public Works and Transport Mr. Bounthong Keohanam	Department of Public Works and Transport of VTE Mr. Dethsongkham THAMMAVONG	Department of Natural Resources and Environment of LPB Mr. Sackdaphone Keoprachan	District vice governor of XYI district Mr. SomNuk Xaynathee
	Deputy Chief of Health and Environment Division, Ministry of Health Ms Vilayvone MUNGKHASERM	Department of Public Works and Transport of VTE Mr. Oudone NGENGVANNAVONG	Department of Public Works and Transport of LPB: Mr. Bounpheng Chilhaphone	Urban Development and Administration Agency of XYB: Mr Bounkhong Phongsavanh
	Staff of Pollution Management Division, PCD, MONRE Mic Noudeng VONGDALA,	Vientiane Urban Development and Administration: Mr. Nousone Meunviseth	Department of Public Works and Transport of LPB: Mr. Phouttasorn Manophat	Department of Public Works and Transport of XYB: Mr PhouangKham PHILAKET
	Staff of Pollution Management Division, PCD, MONRE Mr. Sivanh KHONESAVANH	Department of Public Works and Transport of VTE: Mr. Somkhit Moungpack	Urban Development and Administration Agency of LPB Mr. Phumy Orpethsan	Urban Development and Administration Agency of XYB: Mr.Phathanong Sonephan
	Staff of Pollution Management Division, PCD, MONRE Mr. Nakkalin VORASARN	Department of Natural Resources and Environment of VTE: Mr. Vilavong KENSOULINE	Urban Development and Administration Agency of LPB Ms. Kaisone Keopraserth	Department of Natural Resources and Environment of XYB Mr. Kissamone Photiluck
	Staff of Pollution Management Division, PCD, MONRE Ms, Phatsada KHOUNPHONEPAKD)	Vientiane Urban Development and Administration: MrKaysone Chanthalath		Department of Public Work and Transport of XYB Mr Vilaysak Linthavong
		Vientiane Urban Development and Administration:		Urban Development and Administration Agency of XYB:
		Mr. Sonethavy Phimmasane Department of Natural Resources and Environment of VTE: Mrs. Khamla Thammavong		Mr Khamla Khongsap
		Department of Public Works and Transport of VTE: Ms. Bouavone Luangkhot		

The SJET acknowledged the appointment.

2.4 The PDM2 and PO2 are revised to PDM3 and PO3

PDM₂ and PO₂ are revised to PDM₃ (Appendix 3) and PO₃ (Appendix 4) by amending them as follows.

PDM

Project Purpose:

No change

Output 1:

No change

Output 2:

Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital, Luang Prabang and Xayabouri are changed to as shown in the detailed PDM table for output 2.

Output 3:

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R

Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital, Luang Prabang and Xayabouri are changed to as shown in the detailed PDM table for output 3.

PO

➤ PO of the activities 2.2, 2.4, 3.4 and 3.8 were amended considering the current status of the project.

Based on the various discussions made regarding the PDM₂ and PO₂ by the SJET and Counterpart (C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM₃ and PO₃ were approved by TC members.

2.5 Amendment of Authorization of Pilot Projects and Counterpart's Responsibilities at Three Cities

The Authorization of Pilot Projects and Counterpart's Responsibilities at three cities is amended as shown in the Appendix 5.

3. CONCLUSION

3.1 Following the intensive and technical discussions among participants made at the fifth technical committee on 20th August 2013, "PDM₃ and the Pilot Project and Organization Responsible at Three Cities" with the above clarifications and modifications were fully approved by the both sides.

Agenda

The agenda of the fifth technical committee meeting on 20th August 2013 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

Time	Subject	Responsible Personnel
13:30 – 13:50	P.1 Progress of the LPPE from March 2013 to August 2013	Deputy Director of Pollution Control and Management Division of PCD
13:50 – 14:10	P.2 Planned Activities of the LPPE from Sep 2013 to Feb 2014 and Modification of PDM	Team Leader of SJET
14:10 – 15:10	P.3 Presentation of Conclusions of the Group Discussion of the 1 st Workshop for PPs	Responsible Officer of Each Group
15:10 - 15:40	Coffee Break	
15:40 – 15:50	P.4 Conclusion of the 5 th TC	Deputy Director of Pollution Control and Management Division of PCD
15:50 – 16:00	P.5 Closing Speech	Governor of LPB District Director General of PCD, MONRE





Appendix 2
Attendant List on the Third Technical Committee meeting on 14th February 2013.

No		Position	ee meeting on 14 th February 2013. Title
1	Ms.KeobangA KEOLA	Central Government	Director General, Department of Pollution Control, MoNRE
2	Mr.Vanhxay PHIOMANYVONE	Central Government	Deputy Director, Division of Pollution Management, DPC
3	Mr.Noudeng VONGDALA	Central Government	Technician, DPC, MoNRE
4	Mr.Sivanh KHONESAVANH	Central Government	Technician, DPC, MoNRE
5	Mr.Nakkhalin VORASARN	Central Government	Technician, DPC, MoNRE
6	Ms.Phatsada KHOUNPHOLPAKDI	Central Government	Technician, DPC, MoNRE
7	Mr.Vilaivan TOENGSUMAVONG	Central Government	Technician, Cabinet Office, MoNRE
8	Mr.Thanongsay KAEWYOTHEE	Central Government	Technician, Department of Planning and Cooperation, MoNRE
9	Mr.Vilaichit DUANGCHANH	Central Government	Technician, Department of Housing and Planning, MPWT
10	Mr.Saly PHIMPINIT	Central Government	Department of Tourism Advertisement Min. of Information, Culture and Tourism
11	Mr.Soukhavong KHOTSIMUEANG	Central Government	Min. of Agriculture and Forestry
12	Mr.Arthit SIPASEUTH	Vientiane Capital	Technician, DONRE
13	Mr.Virasack WAENPASEUTH	Vientiane Capital	Technician, DONRE
14	Ms.Buavone LUANGKHOTE	Vientiane Capital	Chief of Section, DPWT
15	Mr.Visay PHETTHONG	Vientiane Capital	Technician, DPWT
16	Mr.Somboun KHAVONGSA	Vientiane Capital	Deputy Director, VUDAA Office
17	Mr.Sonethavy PHIMMASONE	Vientiane Capital	Chief of Section, VUDAA
18	Mr.Suphin SOMAYA	Vientiane Capital	Chief of Section, Saysettha District
19	Mr.Chansamone LUANGLATH	Vientiane Capital	Chief of Group, Saysettha District
20	Ms.Khamphiew PHANTHAVONG	Xayabouri Province	Deputy Director, DONRE
21	Mr.Kitsamone PHOTHILUCK	Xayabouri Province	Acting Chief of Office, DONRE
22	Mr.Puangkham PHILAKATE	Xayabouri Province	Deputy Director, DPWT
23	Mr.Vilaysack LINTHAVONG	Xayabouri Province	Technician, DPWT
24	Mr.Bounkong	Xayabouri Province	President of UDAA

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	PHONGSAVANH		
33	Mr.Phoumy ORPHETSARN	Luang Prabang Province	Vice Governor
34	Mr.Bounkong HOUNGDUANGCHAN	Luang Prabang Province	Department of Public Health
35	Mr.Chantee PHONSI	Luang Prabang Province	UDAA
36	Mr.Sangphone BOUNLUESAY	Luang Prabang Province	UDAA
37	Mr.Onkaew NGAOKHAMVONG	Luang Prabang Province	Technician, District Environment
38	Mr.Khamsone PHONGSAWAT	Luang Prabang Province	Deputy Director, Provincial Hospital
39	Mr.Sonenapha INSUWONG	Luang Prabang Province	Technician
40	Mr.Suwanthong	Luang Prabang Province	Environmental District Office
41	Mr.Bounliang PHONNACHIT	Luang Prabang Province	Chief of Pongwan Village
42	Mr.Ounruen	Luang Prabang Province	Chief of Huaxieng Village
43	Ms. Vilaisith	Luang Prabang Province	Chief of Watthat Village
44	Mr.Somsak	Luang Prabang Province	Chief of Aphay Village
45	Mr.Somdee HOMSAWAT	Luang Prabang Province	Vice President, UDAA
46	Ms.Phonesai	Luang Prabang Province	Vice Chief of Thatbosoth Village
47	Mr.Sompang PHANGDAROUN	Luang Prabang Province	Technician, Provincial Office
48	Mr.Pradith THAMMAVONGSAVANH	Luang Prabang Province	UDAA
49	Mr.Suchart VONGTHEP	Luang Prabang Province	Technician, District Office
50	Mr.Khamsouk	Luang Prabang Province	Deputy Chief of Pakham Village
51	Mr.Siyee YANGSAENCHAI	Luang Prabang Province	Vice Chief, District Office
52	Mr.Suwanthong	Luang Prabang Province	Vice Chief, District Environment Office
53	Mr.Ounruen	Luang Prabang Province	Chie of Huaxieng Village
54	Mr.Susumu SHIMURA	LPPE's Project	Team Leader
55	Ms.Makiko INAMORI	LPPE's Project	Expert
56	Mr.Sayamang NANTHANAVONE	LPPE's Project	Expert
57	Mr.Precha CHUNTAKORN	LPPE's Project	Assistant
58	Mr.Xaysavanh INTHAPANYA	LPPE's Project	Assistant
59	Ms.Mayumi MIYATA	JICA's Laos Office	Representative
60	Mr. Kazuhiro Yoneda	LPPO	Project Leader
61	Mr.Malakhone SONETHAVONG	LPP'O	Staff

62	Mr. Kyojin Mima	LPPA	Expert
63	Mr. Toshikawa KINOSHITA	LPPT'	Expert



1-90

Project Design Matrix (PDM₃)

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, Luang Prabang District and Xayabouri District)

Period: August 2011-October 2015

Ver. 3 PDM₃ August 2013

Narrarive Summary		Objectively verifiable indicators	Means of verification	Important
_	et purpose tion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines are widely used.	The number of cities formulated "Vision for ESC" Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual.	assumptions
Outpu 1	The Guidelines on ESC is formulated and disseminated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated and disseminated.	The number of cities newly registered as ESC. Formulated ESC Guidelines The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities.	Environmental policy of the Lao Government is not drastically changed.
2	Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	As shown in the detailed PDM table for output 2 & 3 below.	Same as on the left	drastically changed.
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	 EEA Program for SWM improvement in the three pilot cities is formulated. As shown in the detailed PDM table for output 2 & 3 below. 	Formulated EEA program Same as on the left	
Activ	ities Basic environmental information of pilot cities are collected and analyzed	Inputs <from laos=""> 1. Counterpart personnel from the</from>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	Team leader/urban environmental management	equipment and fuels is not drastically
1.3	The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed.	- MPWT - Local offices of MONRE and MPWT - UDAAs (VUDAA) in pilot cities	Deputy team leader/intermediate treatment/final disposalWater environment management	increased. 3. Security is maintained in the
1.4	The environment and development visions for the pilot cities are formulated.	Other relevant organizations Z. Facilities	 Waste collection and transport Community-based urban environmental management (1)/environmental education 	pilot cities.
1.5	The cooperation scenario for the environment and development of the pilot cities are formulated. (*1) The ESC Guidelines of Laos are formulated.	Offices for experts in Vientiane and pilot cities	Community-based urban environmental management (2)/pilot project	

1.7 1.8 2.1 2.2 2.3 2.4 3.1 3.2 3.3	The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared. Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities. The pilot projects for urban environmental management are selected. (*2) The pilot projects are planned. The pilot projects are implemented. The results of the pilot projects are presented. The best practices of community-based UEM in Laos are reviewed. The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability to Laos is analyzed. The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated. The EEA pilot projects to facilitate Activity 2.2 are planned. EEA Tools for SWM are developed and the implementation system is enhanced.	 Utilities such as electricity, water, sewerage, telephone, etc. of the offices. Data and information 3. Operation cost 	 Baseline survey on urban environmental management Cost of necessary survey Provision of equipment if necessary Support for operation cost Training opportunity in Japan and/or ASEAN countries From ASEAN as expected> Experts to be dispatched on demand Consultation and joint activities (study tour, data and information) Training opportunity in ASEAN countries (cost sharing with JICA) Support for resource mobilization 	Pre-conditions All relevant personnel participates the project.
3.5	EEA Tools for SWM are developed and the implementation system is enhanced.			
3.6	The EEA pilot projects are implemented.			
3.7	The results of the EEA pilot project are analyzed.			
3.8	The EEA pilot projects are presented in collaboration with Activity 2.4			

(*1) Scenarios are to be formulated for SWM in Vientiane Capital, SWM in Luang Prabang District, SWM in Xayabouri District and water environment management in Vientiane Capital. (*2) Pilot projects are to be implemented for the improvement of SWM in Vientiane Capital, Luang Prabang District and Xayabouri District.



[Objectively Verifiable Indicators and Means of Verifications of PDM(3) for Outputs 2 and 3 (Vientiane Capital)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste	Indicator 2.1. 3Rs are promoted. 1. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. 2. Recyclable waste is separately discharged in one or more new villages under the instruction of the C/P. 2. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P.	LPPE Progress Report and Monitoring Report LPPE Progress Report LPPE Progress Report
management (SWM)) in the three pilot cities	Indicator 2.2. The solid waste collection system is improved. To be confirmed after the selection of the pilot villages 1. Waste discharge and collection rule(s) are applied to one or more new villages under the instruction of the C/P. 2. The number of non-serviced households in one or more new villages reduces by 50% under the instruction of the C/P.	Information from the district officers Information from the district officers
is improved based on the Guidelines on ESC.	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	 The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
,	 Indicator 2.5. The following documents are prepared. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. Proposal for financial system improvement necessary for SWM improvement is prepared. 	 1.1 VUDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of VTE's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-base	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
d urban environmental management for SWM is promoted in the three pilot cities.	Indicator 3.2. The residents participate the 3Rs activities. 1. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 60% 3. The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: To be decided in the pilot villages: 40%	 POS POS POS Information from the stalls



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Narrative	Objectively Verifiable Indicators	Means of Verification
Summary		
	Indicator 3.3. The residents cooperate with the waste collection system.	1. POS
	1. The rate of the households that follow the waste discharge and collection rule to all the households in all the pilot villages: To	
	be decided after the selection of the pilot villages.	

Note:

"New villages" mean the villages or markets which are selected as targets after the pilot projects in the initially selected villages or markets.

POS: Public opinion survey



[Objectively Verifiable Indicators and Means of Verifications of PDM(2) for Outputs 2 and 3 (Luang Prabang)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	 Indicator 2.1. 3Rs are promoted. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. The rate of the households (HHs) who separate recyclable and sell it to all the HHs covered by the existing collection improvement pilot Project (PP): 70%. More than 30 hotels/ restaurants participate in the off-site compost project Compost is produced at the off-site compost plant. More than 30 hotels/guesthouses participate in the plastic shopping bag reduction project Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. 	 LPPE Progress Report and Monitoring Report POS LPPE Progress Report
	 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of LPB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages under the instruction of the C/P. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. 	 Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
	 Indicator 2.3. The operation of the final disposal sites is improved. An operation plan of the final disposal site is formulated. The final disposal site is operated in accordance with the operation plan. The final disposal site is monitored by the final disposal site monitoring committee once a year. 	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	 The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	 UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of LPB District's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-based	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program



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Narrative Summary	Objectively Verifiable Indicators	Means of Verification
urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: To be decided The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 30% 	 POS POS Information from the stalls
	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management groups are established in the of the existing collection improvement pilot villages. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70% 	3. 108

Note:

"New villages" mean the villages or markets which are selected as targets after the pilot projects in the initially selected villages or markets.

POS: Public opinion survey



Narrative Summary	Objectively Verifiable Indicators		Means of Verification
Output 2 Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved	 All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. The rate of the households (HHs) who separate recyclable and sell it to all the HHs covered by the existing collection improvement pilot Project (PP): 70%. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. 	1. 2. 3.	LPPE Progress Report and Monitoring Report POS LPPE Progress Report
	 A waste collection and transportation plan of XYB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. 	1. 2. 3.	Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	1. 2. 3.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 		The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	 Indicator 2.5. The following documents are prepared. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. Proposal for financial system improvement necessary for SWM improvement is prepared. 		 UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of XYB District's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	1.	Formulated EEA program
Community-based urban environmental management for SWM is promoted in the three pilot cities.	Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the	1. 2. 3. 4.	POS POS POS Information from the stalls





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Narrative Summary	Objectively Verifiable Indicators	Means of Verification
	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management groups are established in the of the existing collection improvement pilot villages. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70% 	3. POS

Note:

"New villages" mean the villages or markets which are selected as targets after the pilot projects in the initially selected villages or markets.

POS: Public opinion survey

Plan of Operation (PO₃) Ver.3 Appendix 4 PO₃: August 2013 Year Contract Term Year 1 Year 2 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 3 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 8 9 10 11 12 1 2 3 6. Common Activities for All Outputs 0.1 Preparation of IC/R 0.2 Discussion on IC/R 0.3 Capacity Assessment . 0.4 Preparation of P/R 0.5 Wrap-up Workshop I. Activities for Output I Collection and Analysis of Basic Environmental 1.1 Information of Pilot Cities 1.2 Collection and Analysis of Laws, Strategies and Action Plans for Environmental Management Review of the Best Practices of UEM in ASEAN 1.3 Countries and Analysis of Their Applicability to Laos Formulation of the Vision for ESC of the Pilot Cities Formulation of the Action Plan for the 1.5 Environment and Development of the Pilot Cities 1.5 Formulation of the ESC Guidelines of Laos Finalization of the ESC Guidelines of Lao and 1.7 Finalization of the Good Guideline the Preparation of the Manual for the Guideline Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities. 2. Activities for Output 2 Selection of Pilot Projects for Urban 2.1 Environmental Management 2.2 Formulation of the Plans for the Pilot Projects 2.3 Implementation of the Pilot Projects 2.4 Presentation of the Results of the Pilot Projects 3. Activities for Output 3 Review of the Best Practices of Communitybased UEM in Laos Review of the Best Practices of Community-3.2 based UEM in A Countries and Analysis of Their Applicability to Laos Formulation of the Environmental Education and 3.3 Awareness (EEA) Programs for SWM Improvement in the three pilot cities. Planning of the EEA Pilot Projects to Facilitate Activity 2.2 Development of EEA Tools and Enhancement of 3.5 the Implementation System anniminan minima 3.6 Implementation of the EEA Pilot Projects 3.7 Analysis of the Result of the EEA Pilot Projects 3.8 Presentation of the EEA Pilot Project in Collaboration with Activity 2.4 Activities to be continured only by the counterparts.





Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible	
1."3Rs" are promoted at generation sources.	1.1 "3Rs" are promoted at generation sources	1.1.1 To reduce the amount of kitchen waste and garden waste	amount of kitchen waste and garden waste		4Study and selection of pilot area for on-site (home) composting -Establish the management system.	30.00	DONRE
	to control the waste	at households.		(Assignment of staff)		officially area district	
	amount generation.			-Selection of participating households	Done	DONRE/priority area district	
				-Procurement of home compost barrels	Done	SJET	
			Xaisethha district	-Designing the awareness raising tools (leaflet/equipment)	From April-2013	SJET, DONRE	
			(1) B.None Savang	-Procurement of awareness raising tools	From April-2013	SJET	
			(2) B.Hong Souphat:	-Distribution and instruction of home compost barrels	From May 2013	DONRE/priority area district	
			(3) B.Nonsavanh	-Dissemination to other area	From 2014	DONRE/priority area district	
	,	1.1.2 To collect	(4) B.Amone	Study and selection of pilot area	Done	SHET	
		recyclable waste		-Making-rule-for-collection-of-recyclable	March-April-2013	DONRE/priority-area-district	
		separated at generation		waste-and-designing-the-awareness-raising		and-VUDAA	
		sources.		tools (leaflet/equipment)			
				Procurement of awareness raising tools	April-May 2013	SJET	
				-Preparation of awareness program	April-May-2013	DONRE/priority area district	
				-Implementation-of-the-program	From May 2013	DONRE/priority-area district	
		1.1.2 To avoid using excess packages such as plastic shopping bags.		-Dissemination-to-other-area-	From-2014	DONRE/priority area district	
			Xaisethha district (1) B.None Savang (2) B.Hong Souphab	Study and selection of pilot area and pilot shops/markets	Done	SIET IN THE STATE OF THE STATE	
				-Making rule for reducing of the use of	From April 2013	SJET, DONRE/priority area	
				plastic bags and designing the awareness raising tools (leaflet/equipment)		district	
,			(3) B.Nonsavanh	-Procurement of awareness raising tools	From April 2013	SJET	
			(4) B.Amone	-Preparation of awareness program	From April 2013	DONRE/priority area district	
			(5) Hoa Khoua market	-Implementation of the program	From May 2013	DONRE/priority area district	
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/priority area district	
2. Waste collection	2.1 Improvement of	2.1.1 Improvement of		Study of existing waste collection system	Done	SJETO	
and transportation	1	existing collection		Identification of the waste to be collected	To be confirmed	VUDAA/pilot site district	
system is improved to		system		-Selection of the priority area where new	To be confirmed	VUDAA/pilot sife district	
keep the city clean	system	To be confirmed	To be confirmed	waste collection plan is implemented		The Atlanta Control of	
and raise its	To be confirmed		Xaisethha-district	-Formulation of the new waste collection	After selection of the	SJET/VUDAA/pilot site	
efficiency.			(1)-B-None-Sabang	plan based on the waste to be collected	pilot sites	district	
			(2) B. Hougsouphab	and the area			
			(3) B.Nonsavanh (4) B.Amone	-Procurement of leaflet / necessary equipment	After selection of the pilot sites	VUDAA/pilot sife district	
				-Implementation new waste collection plan at the priority area	pilot sites	VUDAA/pilot/site/district	
		2.1.2 Improvement of		-Study the existing waste discharge system	Done	SJET	
		existing waste		at the priority area		4 4 4	



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Ores di B
		discharge system		-Plan of the new waste discharge rule	After selection of the	Organization Responsible
		To be confirmed		based on the waste to be collected and the	pilot sites	SJET/VUDAA/pilot sit
				area	photisites	district
				-Publicity of the waste discharge rule	4.6	·
					After selection of the pilot sites	VUDAA/pilot site district
				-Procurement of leaflet / necessary material	After selection of the pilot sites	VUDAA/pilot site district
				-Implementation and monitoring of the waste discharge	After selection of the	VUDAA/pilot site district
	2.2 Expansion of	2.2.1 Expansion of		*Glarifying non collection area	pilot sites	20 DEC 172404 20 20 20 20 20 20 20 20 20 20 20 20 20
	waste collection	waste collection		-Study of the demanding of waste	Done	SJET
	service area.	system		collection service	Done :	SJET
		-		Selection of the priority area where new	To be a constant to the constant of the consta	The second second second
	To be confirmed	To be confirmed	To be confirmed	waste collection plan is implemented	To be confirmed by C/P	VUDAA/pilot site district
			Xaisethha-district	-Formulation of the new waste collection	After selection of the	on page, and of the second
			(1) B. None Sabang	plan based on the waste to be collected	pilot sites	SJET/VUDAA/pilot sit
			(2) B. Hougsouphab	and the area	phot sites	district
			(3)-B.Nonsavanh (4)-B.Amene-	-Procurement of waste collection equipment	After selection of the	VUDAA/pilot site district
				-Implementation new waste collection	After selection of the	XII TO A A L
				plan at the priority area	pilot sites	VUDAA/pilot site district
				-Dissemination to other area	After selection of the	VUDAA/pilot site district
				Discontinuition to the time	pilot sites	VODAA/pilot site district
		2.2.2 Establishment of		-Study existing condition at the priority	Done since	SJET
		waste discharge rule in		area are in the artist the second second	700	HOLES
		waste collection		-Plan of the new waste discharge rule at	After selection of the	SJET/VUDAA/pilot sit
		expansion area	To be confirmed	the priority area	pilot sites	SJET/VUDAA/pilot sit
			Xaisethha district	-Publicity of the waste discharge rule	After selection of the	VUDAA/pilot site district
		To be confirmed	(1) B. None Sabang		pilot sites	* ODY BY PRIOR SITE, GISTRICE
			(2)-B-Hougsouphab (3)-B-Nonsavanh	-Implementation and monitoring of the	After selection of the	VUDAA/pilot site district
•			(4)-B-Amone-	waste discharge	pilot sites	· ODIA i prior sito districe
			(77.15:17.110116-	-Procurement of waste discharge	After selection of the	VUDAA/pilot site district
		ala and a second		equipment	pilot sites	y District Site district
				-Dissemination to other area	After selection of the	VUDAA/pilot site district
					pilot sites	y de la prior district
	2.3 The proper plan	2.3.1 To study and		-No pilot project		Seeking for the candidate site
	of-waste-transfer-is	introduce—the—new				by VUDAA and DPWT
	studied and	transfer station.	_			,
	improved to		-		-	
	manage the waste					
T'1 1' 1	transfer-officiently.					
3. Final disposal	3.1The final	3.1.1 To instruct the		-Study and plan of improvement of KNI32	Done	SJET
ystem is improved to	disposal site is	proper management of		disposal site		and the same of the same
nitigate adverse	managed properly	existing final disposal	KM32 existing landfill	-Procurement of concrete plate	Done as	SIET
mpacts on the	to dispose waste	site.	site	-Installation of concrete plate at KM32	Done	VUDAA
urrounding areas.	properly.		3100	disposal site	the bar the second	To a series of the series of
				-Improvement of access road at KM32	Done	SJET
	1 !			disposal site		



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
			Service Control of the Control of th	-Establishment of buffer zone -Preparation of operation plan of KM32 disposal site	Done To be confirmed by C/P	SJET/VUDAA
		and the second s	** 	-Operation of proper landfill site by according to SJET instruction	In progress	VUDAA
				-Supplying fuel for heavy equipment	In progress	VUDAA
				-Assignment of civil engineer at KM32 disposal site	Done	VUDAA
				-Establishment of monitoring system	In progress	MONRE/DONRE
		3.1.2 To manage waste		*Study of weste pickers current condition	Done	SJET
		pickers and improve	and	-Procurement of ID card/ vaccine injection	Done	SJET
		their working condition		-Organizing the waste pickers/ID card	In progress	VUDAA
				-Implementation of vaccine injection for	Done	SJET/VUDAA
	3.2 The sewage	3.2.1 To introduce and		waste pickers -Study and plan of septic tank sludge	Done Contract Contract	SIET
	from septic tank is	manage the proper		treatment	100	Parameter 15 Supplies
	treated properly to mitigate around	treatment facility for the sewage from septic		-Construction of septic tank sludge treatment facility	Done	SJET
	aquatic impact.	tanks		-Operation of septic tank sludge treatment facility	From July 2013	VUDAA
Health care waste nanagement is	4.2 Health care waste is transferred	4.2.1 To establish the collection and	Target medical institutions (MIs)	-Target medical institutions decided by November 2013	In progress-	VUDAA/DONRE/DOH
improved.	properly to prevent the expansion of infectious pathogen in the town.	properly to prevent the expansion of expansion of the exp	system waste	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.)	From December 2013	SJET/VUDAA
			Commence of the Commence of th	-Implementation of the collection and transportation plan	From December 2013	VUDAA
,				-Preparation of monitoring sheets and implementation of monitoring	To be discussed	DONRE
				-Giving advices	From February 2013-	SJET
waste is dis properly to the expansion	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen	waste and monitoring system.	KM32 existing landfill	-Operation system establishment (assignment of personnel, operation recording format, procedure of waste reception, procedure of waste residue removal, etc.)	In progress-	VUDAA
	at the disposal site.		site	-Operation and maintenance.	From September 2012	VUDAA
				-Preparation of monitoring sheets and implementation of monitoring	From March 2013	DONRE
				-Giving advices	From February 2013-	SJET
J.Institutional system mprovement	5.1 The responsibilities that	5.1.1 To codify the responsibilities of each		-Study existing decrees, regulations and rules	March-December 2013	SJET
	the relevant stakeholders should	stakeholder and build consensus.	VTE Capital	-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/VUDAA/DONRE

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
	bear to achieve a goal of SWM are clarified.			- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	VUDAA/DONRE/SJET
				-Put the proposal into force.	From 2014	VUDAA/DONRE
	5.2 Financial system	proper proposals for financial		-Study existing financial system	In progress-	SJET
	necessary for proper SWM is improved.		VTE Capital	-Examination of improvement needs on the financial system.	March-December 2013	SJET
				-Preparation of proposals for for financial system improvement	June-December 2013	VUDAA/DONRE/SJET
				-Put the new fee system into force.	From 2014	VUDAA/DONRE



LPB pilot project and Organization responsible

Strategies	Approach	Project	Pilot Project site	Activities		
1."3Rs" are promoted	1.1"3Rs" are	1.1.1 To reduce the	(1)B.Vat Thath:	-Study and selection of pilot area for	Schedule	Organization Responsible
	promoted at on-site	amount of kitchen	(2)B.Phong Vone	on-site (home) composting	Done	SJET
	to control the waste	waste and garden	(3)B.Pukham:	-Establish the management system	Done	and the second s
	amount generation.	waste at households		(Assignment of staff)	Done	DONRE/UDAA
				-Selection of participating households	Done	DONRE/UDAA
				-Procurement of home compost barrels	Done	SJET
				-Designing the awareness raising tools (leaflet/equipment)	From April 2013	SJET/DONRE/UDAA
				-Procurement of awareness raising tools	From April 2013	SJET
				-Distribution and instruction of home compost barrels	From May 2013	DONRE/UDAA
		110 -		-Dissemination to other area	From 2014	DONRE/UDAA
		1.1.2 To promote	It has been merged	-Study and selection of pilot area	Done	SIET
		recyclable waste separated at generation	into the pilot project	-Making rule for promotion for separation	Done	SJET/DONRE/UDAA
		sources.	2.1	of recyclables		JULIA DE LA CONTROL DE LA CONT
		Jourees.		-Distribution and publicity of the leaflet	Done	SJET/DONRE/UDAA
				-Preparation of awareness program	April-May-2013	DONREAUDAA
				-Implementation of the rule	Under progress	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
		1.1.3 To avoid using	(1)B. Pakham	-Study and selection of pilot area and pilot	Done	SJET
		excess packages such	(Thaheua market)	shops/markets		
		as plastic shopping bags.	(2) Hotels registered to association	-Making rule for reducing of the use of	From April 2013	SJET/DONRE/UDAA
		vags.	association (3) B. Vat That	plastic bags and designing the awareness		
			(3) B. val I nat	raising tools (leaflet/equipment)		
				-Procurement of awareness raising tools	April-August 2013	SJET
				-Preparation of awareness program	From April 2013	DONRE/UDAA
				-Implementation of the program -Dissemination to other area	From May 2013	DONRE/UDAA
	1.2 Recycling is	1.2.1 To reduce the	(1) Hotels registered to	-Study and plan of off-site compost	From 2014	DONRE/UDAA
	promoted at off-site	final disposal amount	association	-Study and plan of ou-she compost	Done	SJET
	by composting.	of kitchen waste from hotels	(2) Compost plant at KM8 existing landfill	-Selection of participating hotels, guest houses and restaurants	March 2013	DONRE/UDAA
			site	-Construction of compost plant	March-May 2013	SJET
				-Implementation of organic waste collection and operation of off-site	From September 2013	UDAA
2. Waste collection	2.1 Improvement of	2.1.1 Improvement of		composting		
system is improved	existing collection	existing collection	•	-Study of existing waste collection system	Done	SJET/DONRE/UDAA
through the	and discharge	system	(1)B.Hua Xieng	-Identification of the Improvement method	Done	SJET/DONRE/UDAA
strengthening of collection service	system		(2)B. Wat Thad	-Selection of the target villages and households	Done	SJET/DONRE/UDAA
collection service capacity and			(3)B.A Phay	-Formulation of the waste collection		
and				system for pilot project	Done	SJET/DONRE/UDAA
				S JOSTI TOT DITOU DI OJECT	annone and an announce and an	



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	
enhancement of public cooperation				-To prepare leaflet/garbage bins	Done	Organization Responsible SJET/DONRE/UDAA
	2.1.2 Improvement of existing waste			-Implementation of the waste collection system for pilot project	Under Progress	UDAA
				-Dissemination to other area	From 2014	UDAA
		existing waste		-Study the existing waste discharge system at the priority area	Done	SJET/DONRE/UDAA
		discharge system		Formulation of the waste discharge	Done	SJET/DONRE/UDAA
				manner for pilot project		OSETIDONNEIODAA
				-Publicity of the waste discharge rule	Done	SJET/DONRE/UDAA
				-To distribute leaflet / garbage bins	Done	SJET/DONRE/UDAA
	-			-Implementation and monitoring of the waste discharge	Under Progress	SJET/DONRE/UDAA
	2.2 Famousia	AA1 5		-Dissemination to other area	From 2014	UDAA
	2.2 Expansion of	2.2.1 Expansion of		-Clarifying non collection area Abrasia	Donesia.	SJET/DONRE/UDAA
	waste collection waste collection service area.		-To determine the UDAA policy for expansion	Done	SJET/DONRE/UDAA	
				-Construction of workshop building	Done	SJET
			-Procurement of equipment and material for making 5m3 container	Done Done	SJET/DONRE/UDAA	
			2 villages and 8 places	-To make 10 of 5m3 container	Under Progress	UDAA
				-Study of the demanding of waste collection service	April-2013	SJET
			-Selection of the priority area where new waste-cellection plan is implemented	May 2013	UDAA	
			-Formulation of the container placement plan for 10 containers	Drafted	SJET/DONRE/UDAA	
				-Implementation of the container placement plan	From October 2013	UDAA
		0.000		-Dissemination to other area	From 2014	UDAA
	,	2.2.2Establishment of waste discharge rule in waste collection expansion area		-Plan of the new waste discharge rule at the priority area (including fee collection)	October 2013	SJEŢ/DONRE/UDAA
				-Publicity and discussion about the waste discharge rule (including fee collection)	November 2013	SJET/DONRE/UDAA
				-Procurement of discharge equipment	July 2013	UDAA
				-Implementation and monitoring of the waste discharge	From December 2013	SJET/DONRE/UDAA
3. Final disposal	3.1The final	3.1.1 To instruct the		-Dissemination to other area	From 2014	UDAA
system is improved to mitigate adverse impacts on the	disposal site is managed properly to dispose of waste properly.	proper management of existing final disposal site.	KM8 existing disposal	Shudy and plan of improvement of KM8 disposal site Procurement of concrete plate Itistallation of concrete plate at KM8.	Done Done	SJET UDAA
	EE4-0.		site	disposal site Construction of new access read at kM8 disposal site	Doné ser di distributione di distributio	SJET was any
				-Construction of new disposal cell	Done	SJET
				-Site clearance for weigh bridge	Done-Lin	UDAA



Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
				-Installation of weigh bridge -Operation of weigh bridge	Done From July2013-	SIET UDAA
				-Preparation of operation plan of KM8 disposal site	To be confirmed by C/P	SJET/UDAA
				-Operation of proper landfill site by according to SJET instruction	In progress	UDAA
				-Supplying fuel for heavy equipment	In progress	UDAA
				-Assignment of civil engineer at KM8 disposal site	Dóne	UDAA
				-Establishment of monitoring system	In progress	MONRE/DONRE
		3.1.2 To manage waste	KM8 existing disposal	-Study of waste pickers current condition	Done was in	SJET
		pickers and improve	site	-Procurement of ID card/ vaccine injection	Done	SJET
		their working		-Organizing the waste pickers/ID card	In progress	UDAA
		condition		-Implementation of vaccine injection for waste pickers	Done	SJET/UDAA
	3.2 The sewage from septic tank is	3.2.1 To introduce and manage the proper treatment facility for the sewage from septic tanks	KM8 existing disposal site	Shidy and plan of septic tank sludge treatment	Dune!	SJET TO STATE OF THE STATE OF T
	treated properly to mitigate around			-Construction of septic tank sludge treatment facility	Done	SJET
	aquatic impact.			-Operation of septic tank sludge treatment facility	From July 2013	UDAA
4. Health care waste management is	4.2 Health care waste is transferred	collection and transportation system of health care waste	Targets medical institutions (MIs)	-Target medical institutions decided by October 2013	In progress-	UDAA/ DONRE/ DOH
improved.	properly to prevent the expansion of infectious pathogen in the town.			-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.)	From November 2013	SJET/UDAA
				-Implementation of the collection and transportation plan	From November 2013	UDAA
				-Preparation of monitoring sheets and implementation of monitoring	To be discussed	DONRE
				-Giving advices	From February 2013-	SJET
	4.3 Health care waste is disposed properly to prevent the expansion of infectious pathogen at the disposal site.	4.3.1 To establish the treatment and disposal system of health care waste and monitoring system.	Incinerator at Provincial hospital	-Operation system establishment (assignment of personnel, operation recording format, procedure of waste reception, procedure of waste residue removal, etc.)	In progress-	SJET/UDAA
	and the mopous sieve			-Operation and maintenance.	From May 2012	UDAA
				-Preparation of monitoring sheets and implementation of monitoring	To be confirmed	DONRE
				-Giving advices	From February 2013-	SJET
5.Institutional system improvement	5.1 The responsibilities that the relevant	5.1.1 To codify the responsibilities of each	LPB District	-Study existing decrees, regulations and rules	March-December 2013	SJET
	stakeholders should	stakeholder and build consensus.		-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/UDAA/DONRE

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
	bear to achieve a goal of SWM are clarified.			- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	UDAA/DONRE/SJET
				-Put the proposal into force.	From 2014	UDAA/DONRE
	5.2 Financial system necessary for proper	5.2.1 Preparation of proposals for financial		-Examination of improvement needs on the financial system.	March-December 2013	SJET
	SWM is improved.	system improvement necessary for SWM	LPBB District	-Preparation of proposals for for financial system improvement	June-December 2013	UDAA/DONRE/SJET
		improvement		-Put the new fee system into force.	From 2014	UDAA/DONRE





XYB pilot project and Organization responsible

Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
"3Rs" are promoted	1.1 "3Rs" are	1.1.1 To reduce the	(1)B.Thinh	-Study and selection of pilot area for,	Done	SJET
at generation sources.	promoted at	amount of kitchen	(3) B.Natonoi (4) B. Boung	on-site (home) composting	and the state of t	
	generation sources	waste and garden		-Establish the management system	Done	DONRE/UDAA
	to control the waste amount generation.	waste at households.		(Assignment of staff)	The section of the se	
				-Selection of participating households	Done	DONRE/UDAA
				-Procurement of home compost barrels	Done	SJET
				-Designing the awareness raising tools (leaflet/equipment)	From April 2013	DONRE/UDAA
				-Procurement of awareness raising tools	From April 2013	SJET
				-Distribution and instruction of home compost barrels	From May 2013	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
		1.1.2 To promote	It has been merged	-Study and selection of pilot area	Done	SJET
		recyclable waste	into the pilot project	-Making rule for promotion for separation	Done	SJET/DONRE/UDAA
•		separated at generation	2.1	of recyclables		
		sources.		-Distribution and publicity of the leaflet	Done	SJET/DONRE/UDAA
				Preparation of awareness program	April-May 2013	DONRE/UDAA
	exc	1.1.3 To avoid using		-Implementation of the rule	Under progress	DONRE/UDAA
				-Dissemination to other area (from July	From 2014	DONRE/UDAA
				2013-onwards)		
				-Study and selection of pilot trea and pilot	Done	SJETC
		excess packages such as plastic shopping bags.		shops/markets		
			(1)B.Thinh (2)B.Phapoon (3)B.Natonoi (4)B.Boung (5)Simungkhun	-Making rule for reducing of the use of	From April 2013	SJET/DONRE/UDAA
				plastic bags and designing the awareness		
				raising tools (leaflet/equipment)	4 21 22 24 0010	CITTO
				-Procurement of awareness raising tools	April-August 2013	SJET
				-Preparation of awareness program	From April 2013	DONRE/UDAA
	1		market	-Implementation of the program	From May 2013	DONRE/UDAA
				-Dissemination to other area (from July 2013 onwards)	From 2014	DONRE/UDAA
2. Waste collection	2.1 Improvement of	f 2.1.1 Improvement of	JET/PP	-Shidy of existing waste collection system	Done	SJET/DONRE/UDAA
system is gradually	existing collection	existing collection	(1)B. Simuang Khoun	-Identification of the Improvement method	Done	SJET/DONRE/UDAA
improved to keep the	1	system	(2)B. Boung	-Selection of the target villages and	Done	SJET/DONRE/UDAA
city clean.	system		(2)B. Kaeng (3)B. Kaeng CP/PP (4)B. Na Tor Noi (5)B. Done Mai	households the person of		
				-Formulation of the waste collection system for pilot project	Done	SJET/DONRE/UDAA
				-To prepare leaflet / garbage bins	Done	SJET/DONRE/UDAA
				-Implementation of the waste collection system for pilot project	Under Progress	UDAA
				-Dissemination to other area	From 2014	UDAA
	i	2.1.2 Improvement of	JET/PP	-Study the existing waste discharge system.	F-12	SJET/DONRE/LIDAA

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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Passes 3.1
		existing waste	(1)B. Simuang Khoun	at the priority area	Constant	Organization Responsible
		discharge system	(2)B. Boung	-Formulation of the waste discharge	Done	CITTOODE
			(3)B. Kaeng	manner for pilot project	Done	SJET/DONRE/UDAA
			On me	-Publicity of the waste discharge rule	Done	CITTON
			CP/PP	-To distribute leaflet / garbage bins	Under Progress	SJET/DONRE/UDAA
			(4)B. Na Tor Noi (5)B. Done Mai	-Implementation and monitoring of the	Under Progress	SJET/DONRE/UDAA
	•		(2)D: Done Iviai	waste discharge	Girder a togicss	SJET/DONRE/UDAA
	20 5			-Dissemination to other area	From 2014	UDAA
	2.2 Expansion of	2.2.1Expansion of		-Clarifying non collection area	Done	STET/DONRE/UDAA!
	waste collection service area.	waste collection		-To determine the UDAA policy for	Done	SJET/DONRE/UDAA
	Scivice area.	system		expansion		SICTIDON REJUDAA
				-Construction of workshop building	Done	SJET/DONRE/UDAA
				-Procurement of equipment and material	Done	SJET/DONRE/UDAA
				for making 5m3 container		
			10.010.52	-To make 10 of 5m3 container	Under Progress	UDAA
			10 places	-Study of the demanding of waste	April 2013	SJET
				cellection service	The state of the s	
				-Selection of the priority area where new waste collection plan is implemented	May-2013	UDAA
				-Formulation of the container placement	Drafted	
				plan for 10 containers	Draited	SJET/DONRE/UDAA
				-Implementation of the container	From September 2013	UDAA
				placement plan	1 Tom September 2013	UDAA
				-Dissemination-to-other-area	From-2014	UDAA
		2.2.2Establishment of		-Plan of the new waste discharge rule at	September 2013	SJET/DONRE/UDAA
		waste discharge rule in		the priority area (including fee collection)		
		waste collection		-Publicity and discussion about the waste	October 2013	SJET/DONRE/UDAA
		expansion area	10 places	discharge rule (including fee collection)	The state of the s	
	•			-Procurement-of-discharge equipment	July-2013	UDAA
				-Implementation and monitoring of the waste discharge	From November 2013	SJET/DONRE/UDAA
				-Dissemination to other area	From 2014	UDAA
Final disposal	3.1The final	3.1.1 To instruct the		-Study and plan of improvement of KM9	Done	SJET
stem is gradually proved in	disposal site is managed properly to	proper management of		disposal site	STATE OF THE STATE	34 325
cordance with the	dispose of waste	existing final disposal site.		Procurement of concrete plate	Done	SJET
crease of waste	properly.	Sico.		Installation of concrete plate at KM9 disposal site	Done	UDAA seese
llection amount.				-Construction of site office	7.1	100 m
•				-Operation of site office	February 2013	SJET
			KM9 existing disposal	-Preparation of operation plan of KM9	From March2013- To be confirmed by	UDAA
			site	disposal site	C/P	SJET/UDAA
				-Operation of proper landfill site by	In progress	UDAA
				according to SJET instruction	2-00B49AP#ASA	ODAA
				-Supplying fuel for heavy equipment	In progress	UDAA
				-Assignment of staff and guards at KM	Done	UDAA
				disposal site		
	ŀ	3 1 2 To message		-Establishment of monitoring system	In progress	MONRE/DONRE
		3.1.2 To manage waste	KM9 existing disposal	-Study of waste pickers current condition-	Done	SJET

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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
		pickers and improve	site	-Procurement of ID card/vaccine injection	Done	SJET
		their working condition		-Organizing the waste pickers/ID card	In progress	VUDAA
		· 		-Implementation of vaccine injection for waste pickers	In progress	SJET/VUDAA
	3.2 The sewage from septic tank is treated properly to	3.2.1 To introduce and manage the proper treatment facility for	KM9 existing disposal	Study and plan of septre tank sludge treatment. -Improvement of septic tank sludge	Done Done	SJET
	mitigate around aquatic impact.	the sewage from septic tanks	site	treatment facility		
				-Operation of septic tank sludge treatment facility	From July 2013	VUDAA
Health care waste management is improved.	4.2 Health care waste is transferred properly to prevent the expansion of	4.2.1 To establish the collection and transportation system of health care waste and monitoring	Targets medical institutions (MIs)	-Preparation of the plan to collect and transport infectious and non-infectious waste from target hospitals (such as date of the week for collection, transportation route, waste delivery recording format, etc.)	In progress-	SJET/UDAA
	infectious pathogen in the	system.		-Implementation of the collection and transportation plan	From August 2013	UDAA
	town.			-Preparation of monitoring sheets and implementation of monitoring	To be confirmed	DONRE
				-Giving advices	From February 2013-	SJET
	4.3 Health care waste is disposed properly to prevent the expansion of	4.3.1 To establish the treatment and disposal system of health care waste and monitoring	KM9 existing landfill	-Operation system establishment (preparation of infectious waste pit, instruction to site operators, operation recording format, procedure of waste reception, etc.)	In progress-	SJET/UDAA
	infectious pathogen at the disposal site.	system.	site	-Operation and maintenance.	From May 2013-	UDAA
	at the disposal site.	system.		-Preparation of monitoring sheets and implementation of monitoring	To be confirmed	DONRE
				-Giving advices	From February 2013-	SJET
5.Institutional system improvement	5.1 The responsibilities that	5.1.1 To codify the responsibilities of each		-Study existing decrees, regulations and rules	March-December 2013	SJET
,		stakeholder and build consensus.		-Examination of improvement needs on decrees, regulations and rules	March-December 2013	SJET/UDAA/DONRE
			XYB District	- Preparation of proposals for decrees, regulations and rules necessary for SWM improvement	June-December 2013	UDAA/DONRE/SJET
				-Put the proposal into force.	From 2014	UDAA/DONRE
	5.2 Financial system necessary for proper	5.2.1 Preparation of proposals for financial	XYB District	-Examination of improvement needs on the financial system.	2013	SJET
	SWM is improved.	system improvement necessary for SWM	A LD DISHICE	-Preparation of proposals for for financial system improvement	June-December 2013	UDAA/DONRE/SJET



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Strategies	Approach	Project	Pilot Project site	Activities	Schedule	Organization Responsible
		improvement		-Put the new fee system into force.	From 2014	UDAA/DONRE

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M/M for the 6th T/C

MINUTES OF MEETINGS FOR

THE SIXTH TECHNICAL COMMITTEE

ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Vientiane, 6th March 2014

Mr. Susumu SHIMURA

Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Vanhxay PHIOMANYVONE

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Sixth Technical Committee Meeting on the Project

The sixth technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 6th March 2014 at DONRE Meeting Room of Vientiane Capital. Ms.Keobang A KEOLA, Director General, Pollution Control Department of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The sixth technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 The PDM3 and PO3 are revised to PDM4 and PO4

PDM₃ and PO₃ are revised to PDM₄ (Appendix 3) and PO₄ (Appendix 4) by amending them as follows.

PDM

Project Purpose:

No change

Output 1:

Means of Verification of PDM are changed to as shown in the detailed PDM table for output 1.

Output 2:

Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital are changed to as shown in the detailed PDM table for output 2.

Output 3:

Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital are changed to as shown in the detailed PDM table for output 3.

Activity:

"Activity 1.9 Introduction activities of the ESC Guidelines are implemented to the other ASEAN cities" is added.

PO

> PO of the activity 1.9 is amended considering the current status of the project.

Based on the various discussions made regarding the PDM₃ and PO₃ by the SJET and

Counterpart (C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM_4 and PO_4 were approved by TC members.

3. CONCLUSION

Following the intensive and technical discussions among participants made at the sixth technical committee on 6th March 2014, "PDM₄" with the above clarifications and modifications were fully approved by the both sides.

Agenda

The agenda of the sixth technical committee meeting on 6th March 2014 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

Time	Subject	Responsible Personnel
8:00 - 8:30	Registration	
8:30 – 8:50	P.1 Opening Speech	Vice Governor of Vientiane Capital
8:50 – 9:00	P.2 Monitoring Report and Progress of the LPPE from September 2013 to February 2014	Deputy Director of Pollution Control and Management Division of PCD
9:00 – 9:30	P.3 Planned Activities of the LPPE from Mar 2014 to Aug 2014 and Modification of PDM	Team Leader of LPPE
09:30 - 10:00	Coffee Break	
10:00 – 10:50	P.4 Results and Issues of PPs in Each Pilot Sites	Representatives from VTE, LPB and XYB
10:50 11:30	P.5 Discussion and Comment	• All
11:30 – 11:40	P.6 Conclusion of the 6 th TC	Deputy Director of Pollution Control and Management Division of PCD
11:40 – 12:00	P.7 Closing Speech	Director General of PCD, MONRE



Appendix 2
Attendant List on the Sixth Technical Committee meeting on 6th March 2014

No	Name	Organization	Title
1	Mr. Keophilavanh	VTE Capital	Vice governor of Vientiane capital.
2	Ms KeobangA KEOLA	Ministry of Neutral Resources and Environmental (MONRE)	Director General of Department of Pollution Control (PCD), MONRE
3	Mr. Vanhxay PHIOMANYVONE	MONRE	Deputy Chief of Pollution Management Division (PMD), PCD, MONRE
4	Mr. Noudeng VONGDALA	MONRE	Technician, PMD, PCD, MONRE
5	Mr. Sivanh KHONESAVANH	MONRE	Technician, PMD, PCD, MONRE
6	Ms. Phatsada SOUMPHONPUKDY	MONRE	Technician, PMD, MONRE
7	Mr. Bounthong KEOHANAM	Ministry of Public work and Transportation(MPWT)	Chief of Housing and Urban Planuing Division(HUPD), MPWT
8	Dr. Bounthanome PHIMMASONE	Ministry of Health(MOH)	Technician staff of Department of Hiyien and Health Promotion (DHHP), MOH
9	Mr. Amnouy HANNONGSAY	MONRE	Technician staff of Planning and Cooperation Department, MONRE
10	Ms. Manoluck KEOMANYVONG	MONRE	Head of Unit, Cabinet Office, MONRE
11	Dr. Bangon SAYARATH	VTE Capital	Deputy Director, Department of Natural Resource and Environmental (DONRE), Vientiane Capital.
12	Ms. Lodchana PHOUNGMANYVONG	VTE Capital	Chief of Environmental Unit, DONRE
13	Mr. Vilasac VANPHASERT	VTE Capital	Technician staff of DONRE
14	Mr. Khampian INTHALUECHA	VTE Capital	Chairman, Vientiane Urban Development Administration Authority (VUDAA).
15	Mr. Sisouk THOLATHA	VTE Capital	Deputy Chief of Urban Cleaning Supervision section, VUDAA
16	Mr Sonethavy PHIMMASANE.	VTE Capital	Director of Vientiane Solid Waste Collection Service Km7, VUDAA
17	Mr. Bouakham PHAKASOUM	VTE Capital	Board of Director Vientiane Solid Waste Collection Service Km7, VUDAA
18	Mr. Bounseng SAYSOMBAT	VTE Capital	Acting Head of Disposal management Km32, VUDAA.
19	Ms. Bouavone LUANGKHOT	VTE Capital	Deputy chief of Housing and Urban Planning Division, DPWT



20	Mr. Sivone SUPTHAVY	VTE Capital	Deputy chief of Transportation Section, DPWT
21	Mr. Bouasang PHISALA	VTE Capital	Deputy Director of ToukTouk Assosiation, DPWT
22	Ms. Saylom PHIMPHA	VTE Capital	Technician Staff of DPWT
23	Mr. Thavysay PHETSOMPHOU	VTE Capital	Vice of Xaysetha district governor,
24	Mr. Vanhpheng PHICSAYKHAM	VTE Capital	Deputy Chief of Xaysetha district office
25	Mr. Chansamone LUANGLART	VTE Capital	Chief of Natural Resource and Environment, Xaysetha district office
26	Mr. Boupha PHANGTHAVONG	VTE Capital	Head of Sisathanak District office, VTE
27	Ms. Sikhamphong	VTE Capital	Student from Faculty of Engineering
28	Mr. Chanthavong PHONNACHIT	LPB	Deputy Chief Department of Natural Resource and Environmental (DONRE)
29	Mr. Sacdaphone KEOPHACHAN	LPB	Technician staff of DONRE
30	Mr. Phoumy ORPETSAN	LPB	Vice president of LPB District and Vice president of UDAA
31	Ms. Kaisone KUSONSAVATH	LPB	Head of SWM unit of UDAA
32	Ms. Khamphiou PHATHAVONG	XYB	Deputy Chief of DONRE
33	Mr. Kitsamone PHOTHILACK	ХҮВ	Technician staff of DONRE
34	Mr. Phoungkham PHILAKHET	XYB	Deputy Chief, Department of Public Work and Transportation (DPWT)
35	Mr. Vilaysack LINTHAVONG	XYB	Technicain staff of DPWT
36	Mr. Bounkhong PHONGSAVANH	XYB	Persident of UDAA
37	Mr. Souliyan MUNKHONG	XYB	Technicain staff of UDAA
38	Mr. Bounhome KHANTHAVONG	ХҮВ	Technicain staff of UDAA
39	Ms. Akiko KISHIUE	JICA	Project Formation Advisor
40	Mr. Keisuke SAWADA	JICA	Aid Coordination
41	Mr. Kazuhiro YONEDA	LPPO	Project Leader
42	Mr. Yoshinori YONESATO	LPPO	Project Coordinator
43	Ms. Phatsamalee VANNHA	LPPO	Assistant
44	Mr. Susumu SHIMURA	LPPE	Team Leader
45	Mr. Shinnosuke ODA	LPPE	Expert
46	Ms. Noriko OTSUKI	LPPE	Expert
47	Ms. Makiko INAMORI	LPPE	Expert
48	Dr. Sayamang NANTHANAVONE	LPPE	Expert



49	Mr. Precha CHUNTAKORN	LPPE	Assistant
50	Mr. Xaysavanh INTHAPANYA	LPPE	Assistant

- SWE Z

Project Design Matrix (PDM₄)

Appendix 3

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, LPB District and Xayabouri District)

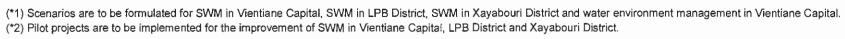
Period: August 2011-October 2015

Ver. 4 PDM₄ March 2014

	Narrarive Summary	Objectively verifiable indicators	Means of verification	Important assumptions
	ct purpose ption of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines are widely used.	1. The number of cities formulated "Vision for ESC" 2. Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. 3. The number of cities newly registered as ESC.	
Outpi	The Guidelines on ESC is formulated and disseminated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated and disseminated.	1. Formulated ESC Guidelines 2. The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities in Lao PDR. 3. The number of seminars/workshops held to introduce the ESC Guidelines to the other ASEAN cities.	Environmental policy of the Lao Government is not drastically changed.
2	Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	As shown in the detailed PDM table for output 2 & 3 below.	Same as on the left	
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	EEA Program for SWM improvement in the three pilot cities is formulated. As shown in the detailed PDM table for output 2 & 3 below.	Formulated EEA program Same as on the left	
Activ 1.1	ities Basic environmental information of pilot cities are collected and analyzed	Inputs <from laos=""> 1. Counterpart personnel from the</from>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed. The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed.	following organizations - MONRE - MPWT - Local offices of MONRE and MPWT - UDAAs (VUDAA) in pilot cities	 Team leader/urban environmental management Deputy team leader/intermediate treatment/final disposal Water environment management 	equipment and fuels is not drastically increased. 3. Security is maintained in the



1.4 1.5 1.6 1.7 1.8 1.9 2.1 2.2 2.3 2.4 3.1 3.2	The environment and development visions for the pilot cities are formulated. The cooperation scenario for the environment and development of the pilot cities are formulated. (*1) The ESC Guidelines of Laos are formulated. The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared. Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities in Lao PDR. Introduction activities of the ESC Guidelines are implemented to the other ASEAN cities. The pilot projects for urban environmental management are selected. (*2) The pilot projects are planned. The pilot projects are implemented. The results of the pilot projects are presented. The best practices of community-based UEM in Laos are reviewed. The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability	 Other relevant organizations 2. Facilities Offices for experts in Vientiane and pilot cities Utilities such as electricity, water, sewerage, telephone, etc. of the offices. Data and information 3. Operation cost 	 Waste collection and transport Community-based urban environmental management (1)/environmental education Community-based urban environmental management (2)/pilot project Baseline survey on urban environmental management Cost of necessary survey Provision of equipment if necessary Support for operation cost Training opportunity in Japan and/or ASEAN countries From ASEAN as expected> Experts to be dispatched on demand Consultation and joint activities (study tour, data and information) Training opportunity in ASEAN countries (cost sharing with JICA) Support for resource mobilization 	Pre-conditions All relevant personnel
3.3	to Laos is analyzed. The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated.			participates the project.
3.4	The EEA pilot projects to facilitate Activity 2.2 are planned.			
3.5	EEA Tools for SWM are developed and the implementation system is enhanced.			
3.6	The EEA pilot projects are implemented.			
3.7	The results of the EEA pilot project are analyzed.			
3.8	The EEA pilot projects are presented in collaboration with Activity 2.4			





[Objectively Verifiable Indicators and Means of Verifications of PDM(3) for Outputs 2 and 3 (Vientiane Capital)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Urban	Indicator 2.1. 3Rs are promoted. 1. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. 2. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P.	LPPE Progress Report and Monitoring Report LPPE Progress Report
(solid waste management (SWM)) in the three pilot cities is improved	Indicator 2.2. The solid waste collection system is improved. To be confirmed after the selection of the pilot villages 1. Waste discharge and collection rule(s) are applied to one or more new villages under the instruction of the C/P. 2. The number of non-serviced households in one or more new villages reduces by 50% under the instruction of the C/P. 1. Collection coverage (Contracted) rate of collection service in 4 pilot project villages increases from 33% in November 2013 to 50% in December 2014. 2. Primary collection system by using collection bins covers 150 households in the inaccessible road of collection vehicles in 4 pilot project villages.	Information from the district-officers collection company Information from the district-officers VUDAA
ESC.	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	 Final disposal operation plan Final disposal operation record The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	1.1 VUDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of VTE's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
Community-base d urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 60% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 40% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 40% 	 POS POS Information from the stalls
	 Waste management groups are established in the existing collection improvement pilot villages. The rate of the households in 4 pilot project villages that follow the waste discharge and collection rule to all the households in all the pilot villages: that make collection service contracts with the collection company increases from 33% in November 2013 to 50% in December 2014. To be decided after the selection of the pilot villages. The number of the households in the inaccessible road of collection vehicles in 4 pilot project villages that cooperates primary collection becomes 150. w villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages. 	3

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected village POS: Public opinion survey

[Objectively Verifiable Indicators and Means of Verifications of PDM(4) for Outputs 2 and 3 (LPB)]

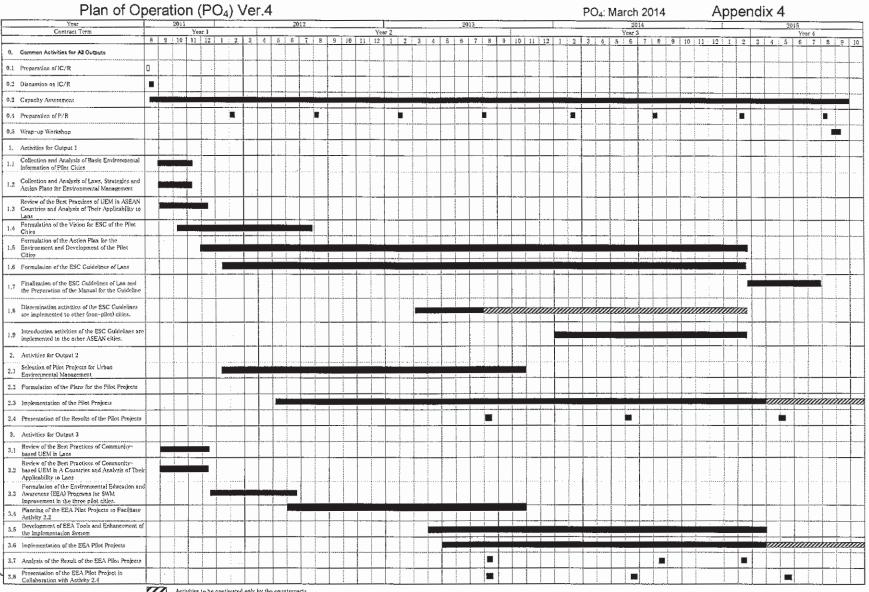
Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2	Indicator 2.1. 3Rs are promoted.	
Urban environmental management (solid vaste management SWM)) in the three bilot cities is mproved based on	 All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. The activities of the promotion of recyclables discharge are implemented in one or more new villages under the instruction of the C/P. More than 30 hotels/ restaurants participate in the off-site compost project 	 LPPE Progress Report and Monitoring Report POS LPPE Progress Report
he Guidelines on ESC.	 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of LPB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages under the instruction of the C/P. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. Indicator 2.3. The operation of the final disposal site is improved. An operation plan of the final disposal site is formulated. The final disposal site is operated in accordance with the operation plan. 	 Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3) and container placement plan Final disposal operation plan Final disposal operation record
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned	The monitoring report of the committee The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of LPB District's regulation of SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
Community-based urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: 70% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 30% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 30% 	 POS POS POS Information from the stalls
Note: *New villas	Indicator 3.3. The residents cooperate with the waste collection system. 1. Waste management groups are established in the existing collection improvement pilot villages. 2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% 3. The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70% [res' mean the villages which are selected as targets after the pilot projects in the initially selected villages.	Waste collection leaflet POS and monitoring sheet POS

Cal

[Objectively Verifiable Indicators and Means of Verifications of PDM(4) for Outputs 2 and 3 (Xayabouri)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste management (SWM)) in the three		LPPE Progress Report and Monitoring Report POS LPPE Progress Report
pilot cities is improved based on the Guidelines on ESC.	Indicator 2.2. The solid waste collection system is improved. 1. A waste collection and transportation plan of XYB is formulated. 2. The solivities of the existing collection improvement PP are implemented in one or more new villages (or another new	Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	1.1 UDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of XYB District's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
Community-based urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: 70% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 25% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 25% 	 POS POS POS Information from the stalls
Note: "New villag	Indicator 3.3. The residents cooperate with the waste collection system. 1. Waste management groups are established in the existing collection improvement pilot villages. 2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% es" mean the villages—which are selected as targets after the pilot projects in the initially selected villages.	Waste collection leaflet POS and monitoring sheet

"New villages" mean the villa POS: Public opinion survey



Activities to be continued only by the counterparts.

MINUTES OF MEETINGS

FOR

THE SEVENTH TECHNICAL COMMITTEE

ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Xayabouri, 7th August 2014

Mr. Susumu SHIMURA

Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Vanhxay PHIOMANYVONE

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Seventh Technical Committee Meeting on the Project

The seventh technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 7th August 2014 at Meeting Room of Planning and Investment Department of Xayabouri Province. Ms. Keobang A KEOLA, Director General, Pollution Control Department of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The seventh technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 The PDM4 and PO4 are revised to PDM5 and PO5

PDM₄ and PO₄ are revised to PDM₅ (Appendix 3) and PO₅ (Appendix 4) by amending them as follows.

PDM

Project Purpose:

> No change

Output 1:

No change

Output 2:

Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital (VTE), Luang Prabang (LPB) and Xayabouri (XYB) are changed to as shown in the detailed PDM table for output 2.

Output 3:

Objectively Verifiable Indicators and Means of Verification of PDM for VTE, LPB and XYB are changed to as shown in the detailed PDM table for output 3.

Activity:

> No change

PO

➤ No change. PO₄ is renamed PO₅ for convenience..

Based on the various discussions made regarding the PDM₄ and PO₄ by the SJET and Counterpart (C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM₅ and PO₅ were approved by TC members.

3. 8

2.2 Indicators for Eco-stay Project

Since the number of participating hotels/restaurants has not increased as expected, Short-term JICA Expert Team (SJET) suggested DONRE/UDAA of LPB to modify the following indicators:

Indicator 2.1-3:

More than 30 hotels/ restaurants participate in the off-site compost project.

More than 30 hotels/guesthouses participate in the plastic shopping bag reduction project.

DONRE/UDAA of LPB replied that they would not modify the indicators. They, therefore, would like to hold an explanation seminar to explain the Eco-stay project to responsible officers of hotels/ restaurants and to persuade them to join.

SJET appreciated their intention and decided to cooperate the seminar.

2.3 Exchange of the Opinions of the Pilot Project Site Villages

VUDAA and UDAA of XYB requested the SJET to provide an opportunity for the Pilot Project (PP) Site Villages to exchange their opinions on the results of the PP in order to extend the outputs of the PPs to the other area.

SJET appreciated their proposal and would offer such an opportunity in the next technical committee or workshop for PP.

CONCLUSION 3.

Following the intensive and technical discussions among participants made at the 3.1 seventh technical committee on 7th August 2014, "PDM5" with the above clarifications and modifications were fully approved by the both sides.

3 &

Agenda

The agenda of the sixth technical committee meeting on 7th August 2014 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

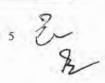
Time	Subject	Responsible Personnel
8:00 - 8:30	Registration	
8:30 - 8:50	P.1 Opening Speech	Representative of XYB
8:50 - 9:00	Group Photo	
9:00 – 9:30	P.2 Monitoring Report and Progress of the LPPE from February 2014 to August 2014	Deputy Director of Pollution Management Division of PCD
09:30 - 10:00	P.3 Planned Activities of the LPPE from Aug 2014 to and Modification of PDM	Team Leader of LPPE
10:00 - 10:20	Coffee Break	
10:20 - 11:20	P.4 Results and Issues of PPs in Each Pilot Sites	Representatives from VTE, LPB and XYB
11:20 - 11:40	P.5 Discussion and Comment	• All
11:40 – 12:00	P.6 Conclusion of the 7 th TC	Deputy Director of Pollution Management Division of PCD
12:00 - 12:30	P.7 Closing Speech	DG of PCD



Appendix 2

Attendant List on the Seventh Technical Committee meeting on 7th August 2014

No:	Name	Organization	Titel
1	Ms. KeobangA KEOLA	Ministry of Neutral Resources and Environmental (MoNRE).	Director General of Department of Pollution Control (PCD), (MoNRE).
2	Mr. Vanhxay PHIOMANYVONE	(MoNRE).	Deputy Chief of Pollution Management Division (PMD), MoNRE
3	Mr. Noudeng VONGDALA	(MoNRE).	Technician, PMD, MoNRE
4	Mr. Sivanh KHONESAVANH	(MoNRE).	Technician, PMD, MoNRE
5	Ms. Phatsada SOUMPHONPUKDY	(MoNRE).	Technician, PMD, MoNRE
6	Ms. Touithida MOUNETICHIT	(MoNRE).	Technical Officer, Department of Pollution Control, (PCD), MoNRE.
7	Ms. Anousone MORAKHAM	(MoNRE).	Technical Officer, PCD, MoNRE.
8	Mr. Vilaivanh KEOSANEHA	(MoNRE).	Technical Officer, PMD, MoNRE
9	Mr. Kukeo SIHARAD	(MoNRE).	Technical Officer, Cabinet Office, MoNRE
10	Mr. Amnuay HANTHONGSAY	(MoNRE).	Technical Officer, Department of Planning and Cooperation, MoNRE.
11	Dr. Bangon SAYARATH	VTE Capital	Deputy Diractor Department of Netural Resource and Environmental (DoNRE), Vientiane Capital(VTE).
12	Ms.Lodchana PHOUNGMANYVONG	VTE Capital	Chief of Environmental Unit, DoNRE, VTE
13	Mr. Vilasac VANPHASERT	VTE Capital	Technician staff of DoNRE, VTE
14	Ms. Toun SOMMANITHONG	VTE Capital	Technician staff of DoNRE, VTE
15	Mr. Khampian INTHALUECHA	VTE Capital	Chairman, Vientiane Urban Development Administration Ahuthority (VUDAA). Vientiane capital
16	Mr. Sisouk THOLATHA	VTE Capital	Deputy Chief of Urban Cleaning Supervision section, VUDAA, VTE
17	Mr. Vongsavart	VTE Capital	Technician staff of VUDAA, VTE capital



18	Mr Sonethavy PHIMMASANE.	VTE Capital	Director of Vientian Solid Waste Collection Service Km7, VUDAA, VTE
19	Mr. Thavisay MAOSOMPHOU	VTE Capital	Vice of Xaysetha district governor, Vientiane Capital.
20	Mr. Chansamone LUANGLAT	VTE Capital	Head of Environmental Unit, VTE capital.
21	Mr. Khampadit PONENACHIT	LPB	Vice Head of Environment Section, Department of Netural Resource and Environmental (DoNRE), LuangPrabang province.
22	Mr. Sackdaphone KEOPRACHAN	LPB	Technical Officer, Environment Unit, Department of Netural Resource and Environmental (DoNRE), LuangPrabang province.
23	Mr. Sisoram CHANTHADED	LPB	Technical Officer, Environment Unit, Department of Netural Resource and Environmental (DoNRE), LuangPrabang province.
24	Ms. Tae NAKAYAMA	LPB	JICA, Volunteer, DoNRE, LuangPrabang province.
25	Mr. Souvanthone SOUKPHANSAY	LPB	Deputy Director, Office of Natural Resources and Environment, Luang Prabang District
26	Mr. Onkeo NGAOKHAMVONGSA	LPB	Technical Officer, Office of Natural Resources and Environment, Luang Prabang District
27	Mr. Somdy PHONESAVATH	LPB	Vice persident of Urban Development Administration Authority (UDAA) of Luang Prabang District
28	Ms. Kaisone KUSONSAVATH	LPB	Head of Administration Section of UDAA, LuangPrabang district.
29	Mr. Chanthy PHOMSY	LPB	Technical Officer of UDAA, LuangPrabang district.
30	Mr. Dr. Viengsaen SENSOMBAT	LPB	Deputy Chief of Internal Section of Luang Prabang Provincial Hospital.
31	Mr. Khamfay KONGPHENG	LPB	Technical Officer of Luang Prabang Provincial Hospital.
32	Ms. Khamphiou PHATHA VONG	ХҮВ	Deputy Chief of Natural Resources and

			Environment (DoNRE), Xayabour province.
33	Mr. Kitsamone PHOTHILACK	ХҮВ	Technician staff of DoNRE, Xayabour province.
34	Mr. Phaychit VONGKHAM	ХҮВ	Technician staff of DoNRE, Xayabouri province.
35	Ms. Momoko TAGUCHI	ХҮВ	JICA volunteer, DoNRE, Xayabouri province
36	Mr. Vivanh LEUNGSITH	ХҮВ	Deputy Director, Office of Natural Resources and Environment, Xayabouri disreict,
37	Mr. Phoungkham PHILAKHET	ХҮВ	Deputy chife Department of Public Work and Transportation(DPWT), Xayabouri province.
38	Mr. Vilaysack LINTHAVONG	XYB	Technicain staff of DPWT, Xayabouri province.
39	Mr. Bounkhong PHONGSAVANH	ХҮВ	Vice persident of Xayabouri District and Persident of UDAA, Xayabouri District
40	Mr. Thonglun PHUEPHOM	ХҮВ	Vice persident of UDAA, Xayabouri District
41	Mr. Phattanong SONEPANH	ХҮВ	Technician staff of UDAA, Xayabouri District
42	Mr. Souliyan MUNKHONG	XYB	Technicain staff of UDAA, xayabouri district.
43	Dr. Khounsavath SENAPHAN	XYB	Deputy Director of Xayabouri provicial Hospital
44	Mr. Sithone	ХҮВ	Technicain staff of Xayabouri provicial Hospital
45	Ms. Khounchin MATHA	ХҮВ	Deputy chife of Administration Section of Deaparment of Education and sport, Xayabouri province.
46	Mr. Xien PHANYATHONG	XYB	Chife of Phapoon village, Xayabouri district:
47	Mr. Souksakhone BOUNMARK	ХҮВ	Chife of Boung village, Xayabouri district.
18	Mr. Phousone	ХҮВ	Chife of Natornoi village, Xayabouri district.
19	Mr. Bounpheng	XYB	Chife of Semaueg village, Xayabouri

			district.
50	Mr. Thongsavanh	ХҮВ	Chife of Phong village, Xayabouri
51	Mr. Bounlueng	XYB	Chife of Keng village, Xayabouri district.
52	Mr. Southor	ХҮВ	Deputy chife of Donemay village, Xayabouri district.
53	Mr. Sengchan KHAMMUN	ХҮВ	Head of Simongkhoun market, Xayabouri district.
54	Ms. Sommay SINGLUCK	XYB	Student practice, Department of Planing and Investment(DPI), Xayabouri district
55	Ms. Khongkham INTHAPANYA	XYB	Student practice, Department of Planing and Investment(DPI), Xayabouri district
56	Ms. Chanpheng DOUNGKHEO	XYB	Student practice, Department of Planing and Investment(DPI), Xayabouri district
57	Mr. Keisuke SAWADA	JICA	Aid Coordination
58	Ms. Phatsamalee VANNHA	LPPO	Assistant
59	Mr. Susumu SHIMURA	LPPE	Project Leader
60	Mr. Shinnosuke ODA	LPPE	Expert
61	Ms. Noriko OTSUKI	LPPE	Expert
52	Ms. Makiko INAMORI	LPPE	Expert
53	Dr. Sayamang NATHANAVONE	LPPE	Expert
54	Mr. Xaysavanh INTHAPANYA	LPPE	Assistant

Project Design Matrix (PDM₄)

Appendix 3

Project title: LPP Environmental Management Component

Target Area; Three pilot cities (Vientiane Capital, LPB District and Xayabouri District)

Period: August 2011-October 2015

PDM₄ March 2014

Ver. 4

	Narrarive Summary	Objectively verifiable indicators	Means of verification	Important assumptions
	ct purpose otion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines are widely used.	1. The number of cities formulated "Vision for ESC" 2. Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. 3. The number of cities newly registered as ESC.	
Outpu 1	The Guidelines on ESC is formulated and disseminated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated and disseminated.	1. Formulated ESC Guidelines 2. The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities in Lao PDR. 3. The number of seminars/workshops held to introduce the ESC Guidelines to the other ASEAN cities.	Environmental policy of the Lao Government is not drastically changed.
2	Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on ESC.	As shown in the detailed PDM table for output 2 & 3 below.	Same as on the left	
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	EEA Program for SWM improvement in the three pilot cities is formulated. As shown in the detailed PDM table for output 2 & 3 below.	Formulated EEA program Same as on the left	
Activ	ities	Inputs		
1.1	Basic environmental information of pilot cities are collected and analyzed	<from laos=""> Counterpart personnel from the </from>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	Team leader/urban environmental management	equipment and fuels is not drastically
1.3	The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed.	MPWT Local offices of MONRE and MPWT UDAAs (VUDAA) in pilot cities	Deputy team leader/intermediate treatment/final disposal Water environment management	increased. 3. Security is maintained in the





1.4	The environment and development visions for the pilot cities are formulated. The cooperation scenario for the environment and	- Other relevant organizations 2. Facilities	 Waste collection and transport Community-based urban environmental management (1)/environmental education 	pilot cities.
110	development of the pilot cities are formulated. (*1)	- Offices for experts in Vientiane and	Community-based urban environmental	
1.6	The ESC Guidelines of Laos are formulated.	pilot cities	management (2)/pilot project	
1.7	The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared.	 Utilities such as electricity, water, sewerage, telephone, etc. of the 	Baseline survey on urban environmental management	
1.8	Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities in Lao PDR.	offices. - Data and information	Cost of necessary survey Provision of equipment if necessary Support for operation cost	
1.9	Introduction activities of the ESC Guidelines are implemented to the other ASEAN cities.	3. Operation cost	Training opportunity in Japan and/or ASEAN countries	
2.1	The pilot projects for urban environmental management are selected. (*2)		<pre><from as="" asean="" expected=""></from></pre>	
2.2	The pilot projects are planned.		Experts to be dispatched on demand	
2.3	The pilot projects are implemented.		2. Consultation and joint activities (study tour, data	
2.4	The results of the pilot projects are presented.		and information)	
3.1	The best practices of community-based UEM in Laos are reviewed.		Training opportunity in ASEAN countries (cost sharing with JICA)	Pre-conditions
3.2	The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability to Laos is analyzed.		4. Support for resource mobilization	All relevant personnel participates the
3.3	The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated.			project.
3.4	The EEA pilot projects to facilitate Activity 2.2 are planned.			
3.5	EEA Tools for SWM are developed and the implementation system is enhanced.			
3.6	The EEA pilot projects are implemented.			
3.7	The results of the EEA pilot project are analyzed.			
3.8	The EEA pilot projects are presented in collaboration with Activity 2.4			

^(*1) Scenarios are to be formulated for SWM in Vientiane Capital, SWM in LPB District, SWM in Xayabouri District and water environment management in Vientiane Capital.

(*2) Pilot projects are to be implemented for the improvement of SWM in Vientiane Capital, LPB District and Xayabouri District.



[Objectively Verifiable Indicators and Means of Verifications of PDM(3) for Outputs 2 and 3 (Vientiane Capital)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste management	 Indicator 2.1. 3Rs are promoted. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. The activities of the promotion of recyclables discharge are implemented in one or more new streets under the instruction of the C/P. 	LPPE Progress Report and Monitoring Report LPPE Progress Report
(SWM)) in the three pilot cities is improved based on the Guidelines on	 Indicator 2.2. The solid waste collection system is improved. Collection coverage (Contracted) rate of collection service in 4 pilot project villages increases from 33% in November 2013 to 50% in December 2014. Primary collection system by using collection bins covers 150 households in the inaccessible road of collection vehicles in 4 pilot project villages. 	Information from the collection company Information from the VUDAA
ESC.	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	VUDAA's regulation on waste discharge, collection and final disposal. Draft amendment of VTE's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-base	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
d urban environmental management for SWM is	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in ail the pilot villages: 60% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 40% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 40% 	POS POS Information from the stalls

Namative Summan	Objectively Verifiable Indicators	Means of Verification
	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management groups are established in the existing collection improvement pilot villages. The rate of the households in 4 pilot project villages that make collection service contracts with the collection company increases from 33% in November 2013 to 50% in December 2014. The fee payment rate of the households in 4 pilot project villages that newly make collection service contracts with the collection company maintains 90 %. The number of the households in the inaccessible road of collection vehicles in 4 pilot project villages that cooperates primary collection becomes 150. The rate of the cooperating households to all the households covered by the primary collection PP: 70% 	Information from the collection company Information from the VUDAA

Note:

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages .

POS: Public opinion survey

[Objectively Verifiable Indicators and Means of Verifications of PDM(4) for Outputs 2 and 3 (LPB)]

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
Output 2 Urban environmental management (solid waste management (SWM)) in the three pilot cities is improved based on the Guidelines on	instruction of the C/P. 3. More than 30 hotels/ restaurants participate in the off-site compost project 4. Compost is produced at the off-site compost plant. 5. More than 30 hotels/guesthouses participate in the plastic shopping bag reduction project	LPPE Progress Report and Monitoring Report POS LPPE Progress Report
	The same of the sa	Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
	Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
	Indicator 2.5. The following documents are prepared. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. Proposal for financial system improvement necessary for SWM improvement is prepared.	UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of LPB District's regulation of SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
Community-based urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: 70% The rate of the households that separately discharge recyclable waste to all the households covered by primary collection PP: 70% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 30% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 30% The cooperation rate of the school recycling at the PP schools is more than 50% of total numbers of classes. 	2. POS 3. POS

Narrative Summary	Objectively Verifiable Indicators	Means of Verification
	Indicator 3.3. The residents cooperate with the waste collection system. 1. Waste management groups are established in the existing collection improvement pilot villages. 2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% 3. The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70%	Waste collection leaflet POS and monitoring sheet POS

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages . POS: Public opinion survey

[Objectively Verifiable Indicators and Means of Verifications of PDM(4) for Outputs 2 and 3 (Xayabouri)]

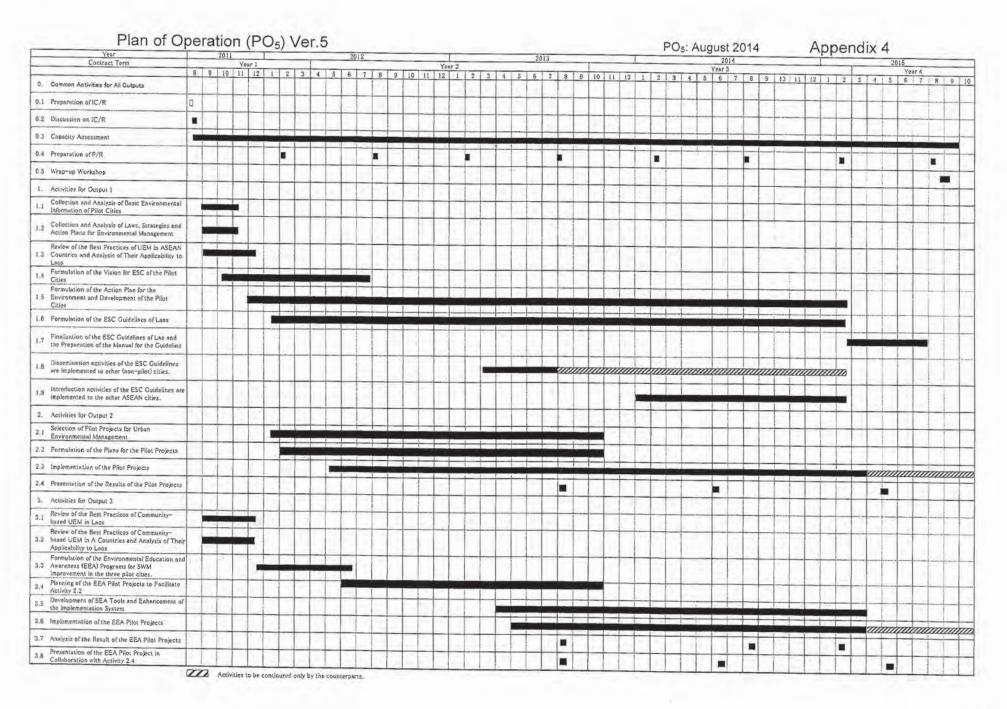
Objectively Verifiable Indicators	Means of Verification
 Indicator 2.1. 3Rs are promoted. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. The activities of the promotion of recyclables discharge are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. The school recycling activities continue at the pilot project school. The community based recyclable waste recycling activities continue at the pilot project village. 	LPPE Progress Report and Monitoring Report POS LPPE Progress Report
 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of XYB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. 	Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
Indicator 2.5. The following documents are prepared. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. Proposal for financial system improvement necessary for SWM improvement is prepared.	UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of XYB District's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	Formulated EEA program
 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households in all the pilot villages: 70% The rate of the households that separately discharge recyclable waste to all the households covered by primary collection PP: 70% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 25% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 25% The cooperation rate of the school recycling at the PP school is more than 50% of total numbers of classes. Recyclable waste recycling units are established in the pilot project village. 	 POS POS POS Information from the stalls
	Indicator 2.1. 3Rs are promoted. 1. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. 2. The activities of the promotion of recyclables discharge are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. 3. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. 4. The school recycling activities continue at the pilot project school. 5. The community based recyclable waste recycling activities continue at the pilot project village. Indicator 2.2. The solid waste collection system is improved. 1. A waste collection and transportation plan of XYB is formulated. 2. The activities of the existing collection improvement PP are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. 3. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. Indicator 2.3. The operation of the final disposal sites is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year. Indicator 2.4. Healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared. Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated. Indicator in the responsibilities of stakeholders for improved SWM is prepared and/or



Narrative Summary	Objectively Verifiable Indicators	Means of Verification
	Indicator 3.3. The residents cooperate with the waste collection system. 1. Waste management groups are established in the existing collection improvement pilot villages. 2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70%	Waste collection leaflet POS and monitoring sheet

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages.

POS: Public opinion survey



249 B

MINUTES OF MEETINGS FOR THE EIGHTH TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Luang Prabang, 22nd January 2015

Mr. Susumu SHIMURA

Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Vanhxay PHIOMANYVONE

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Eighth Technical Committee Meeting on the Project

The eighth technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 22nd January 2015 at Agriculture and Forestry Meeting Room of Luang Prabang Province. Mr. Phetsmone DALALOM, Acting Director General, Pollution Control Department of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting and co-chaired by Mr. Chanthavong PHONNACHIT, Deputy Director General, Department of Natural Resources and Environment of LPB.

1. INTRODUCTION

The eighth technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 Amendment of Member of Technical Committee (TC)

The Project Manager informed that the appointments of following technical committee members were amended according to the retirement and movement of the positions.

Table 1: Amended Member of Technical Committee (T/C)

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
Chairperson	Deputy Director, Pollution Management Division, PCD, MONRE Mr. Vanhxay PHIOMANYVONE	Deputy Director General, Department of Natural Resources and Environment of VTE Dr. Ms. Bangon SAYARATH	Deputy Director General, Department of Natural Resources and Environment of LPB Mr. Chanthavong PHONNACH!T	Deputy Director General, Department of Natural Resources and Environment of XYB Ms. Khamphiou PHANTHAVONG
Member	Department of Housing and Urban Planning Ministry of Public Works and Transport Mr. Bounthong KEOHANAM	Deputy Director General, Department of Public Works and Transport of VTE Mr. Bounchan KEOSITAMMA	Technical Staff, Department of Natural Resources and Environment of LPB Mr. Sackdaphone KEOPRACHAN	Director, Urban Development and Administration Authority of XYB Mr. Bounkhong PHONGSAVANH
	Technical Staff, Department of Hygiene, Ministry of Health Ms. Khampasith PHOMMACHAK	Department of Public Works and Transport of VTE Ms. Bouavone LUANGKHOT	Department of Public Works and Transport of LPB Mr. Bounpheng CHITHAPHONE	Department of Public Works and Transport of XYB Mr. PhouangKham PHILAKET
	Technical Staff, Pollution Management Division, PCD, MONRE Mr. Noudeng VONGDALA	Department of Public Works and Transport of VTE Ms. Thongnith PANYAVONG	Department of Public Works and Transport of LPB Mr. Phouttasorn MANOPHAT	Department of Public Work and Transport of XYB Mr. Vilaysak LINTHAVONG
	Technical Staff, Pollution Management Division, PCD, MONRE Mr. Sivanh KHONESAVANH	Chief of Environment Section, Department of Natural Resources and Environment of VTE Ms. Rotchana PHOUANGMANIVONG	Deputy Director, Urban Development and Administration Authority of LPB Mr. Phoumy OPHETHSANE	Technical Staff, Department of Natural Resources and Environment of XYB Mr. Kitsamone PHOTILAK
	Technical Staff, Pollution Management Division, PCD, MONRE Mr. Nakkalin VORASARN	Technical Staff, Department of Natural Resources and Environment of VTE Mr. Vilasak VENPASEUTH	Chief of Administration Section, Urban Development and Administration Authority of LPB Ms. Kaisone KHOUSONSAVATH	Urban Development and Administration Authority of XYB Mr. Thonglan PHEUAPHOM
	Technical Staff, Pollution Management Division, PCD, MONRE Ms. Phatsada SOUMPHOMPHUKDY Technical Staff, Pollution	Deputy Director General, Vientiane Urban Development and Administration Authority Mr. Khampian INTHALUXA Chief of Urban Cleaning		Urban Development and Administration Authority of XYB Mr. Phathanong SONEPHAN Urban Development and
	Management Division, PCD, MONRE	Supervision Section, Vientiane Urban		Administration Authority of XYB

3/8

Assignment	Central Government	Vientiane Capital (VTE)	Luang Prabang (LPB)	Xayabouri(XYB)
	Mr. Sengkeo TASAKETH	Development and Administration Authority Mr. Sisouk THQLATHA		Mr. Soulinyan MANKHONG
		Vientiane Urban Development and Administration Authority Mr. Sonethavy PHIMMASANE		
		Technical Staff, Vientiane Urban Development and Administration Authority Kaysone CHANTHALATH		

The Short-term JICA Expert Team (SJET) acknowledged the appointment.

2.2 Extension of Dissemination Activities of the ESC Guidelines

The Project Manager requested SJET that the dissemination activities of the ESC Guidelines (ESC GL) shall be extended to the other cities than three pilot ones.

The SJET acknowledged the request and replied that the team will support several cities to finalize their ESC visions in cooperation with MONRE/PCD until July 2015.

2.3 The PDM5 and PO5 are revised to PDM6 and PO6

PDM₅ and PO₅ are revised to PDM₆ (Appendix 3) and PO₆ (Appendix 4) by amending them as follows.

PDM

Project Purpose:

No change

Output 1:

No change

Output 2:

➤ Objectively Verifiable Indicators and Means of Verification of PDM for Vientiane Capital (VTE), Luang Prabang (LPB) and Xayabouri (XYB) are changed to as shown in the detailed PDM table for output 2.

Output 3:

➤ Objectively Verifiable Indicators and Means of Verification of PDM for VTE, LPB and XYB are changed to as shown in the detailed PDM table for output 3.

Activity:

No change

PO

➤ Dissemination activities of the ESC Guidelines (ESC_GL) to the other cities than three pilot ones be extended until July 2015.

3

Based on the various discussions made regarding the PDM₅ and PO₅ by the SJET and Counterpart (C/P), the amendments on them were presented to TC members. As a result of discussion, the PDM₆ and PO₆ were approved by TC members.

3. CONCLUSION

Following the intensive and technical discussions among participants made at the eighth technical committee on 22nd January 2015, "PDM₆" with the above clarifications and modifications were fully approved by the both sides.

Agenda

The agenda of the eighth technical committee meeting on 22nd January 2015 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

Time	Subject	Responsible Personnel
8:00 - 8:30	Registration	
8:30 - 8:50	P.1 Opening Speech	Representative of LPB
8:50 - 9:00	Group Photo	
9:00 – 9:30	P.2 Monitoring Report and Progress of the LPPE from September 2014 to January 2015	 Deputy Director of Pollution Management Division of PCD
09:30 – 10:00	P.3 Planned Activities of the LPPE from February 2015 to September 2015 and Modification of PDM	Team Leader of LPPE
10:00 - 10:20	Coffee Break	
10:20 - 12:00	P.4 Results and Issues of PPs in Each Pilot Sites	 Representatives from VTE, LPB and XYB
12:00 - 13:30	Lunch	
13:30 - 14:30	P.5 Discussion and Comment	• All
14:30 – 15:00	P.6 Conclusion of the 8 th TC	Deputy Director of Pollution Management Division of PCD
15:00 - 15:30	P.7 Closing Speech	Acting DG of PCD

Appendix 2

Attendant List on the Seventh Technical Committee meeting on 7th August 2014

No:	Name	Organization	Title
1	Mr. Phetsamone DALALOM	Ministry of Natural Resources and Environment (MONRE)	Acting Director General of Department of Pollution Control (PCD)
2	Mr. Vanhxay PHIOMANYVONE	MONRE	Deputy Director of Pollution Management Division (PMD), PCD
3	Mr. Sengkeo TASAKETH	MONRE	Technical officer, PMD, PCD
4	Mr. Sivanh KHONESAVANH	MONRE	Technical officer, PMD, PCD
5	Ms. Phatsada SOUMPHOMPHUKDY	MONRE	Technical officer, PMD,PCD
6	Mr. Nakkhalin VORASARN	MONRE	Technical officer, PCD
7	Mr. Touithida MOUNETICHIT	MONRE	Technical Officer, PCD
8	Ms. Soukpalamy DOUANGMALA	MONRE	Technical Officer, PCD
9	Ms. Sinakhone VILAYCHIT	MONRE	Technical Officer, Cabinet Office
10	Mr. Viladet SISAMOUT	MONRE	Technical Officer, Department of Planning and Cooperation
11	Ms. Khamla PHOUMANY	Ministry of Health (MOH)	Technical Officer, Department of Hygiene and Health Promotion
12	Mr. Phouthasom INTHAVONG	Ministry of Public Works and Transport (MPWT)	Deputy Director of Urban Development Division
13	Mr. Chitaphone VILAYSACK	Department of Natural Resources and Environment (DONRE) of VTE Capital	Technical Officer
14	Mr. Vilasak VENPASEUTH	DONRE, VTE Capital	Chief of Environmental Quality Promotion Unit
15	Ms. Toun SOMMANITHONG	DONRE, VTE Capital	Technical Officer
16	Ms. Nao HABE	JICA/ DONRE, VTE Capital	Japan Overseas Cooperation Volunteer (JOCV)
17	Ms. Bouavone LUANGKHOT	Department of Public Works	Deputy Chief of Housing, Urban
18	Ms. Vankham LUANGKHOT	and Transport (DPWT) DPWT, VTE Capital	Planning and Environment Division Technical Officer

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6

19	Mr. Phoudone MEKSAVAN	Vientiane Urban	Vice President	
		Development Administration		
		Authority (VUDAA)		
20	Mr. Sisouk THOLATHA	VUDAA	Chief of Urban Cleaning Supervision	
			Section	
21	Mr. Sonethavy PHIMMASANE	VUDAA	Director of Vientiane Solid Waste	
			Collection Service Km7	
22	Mr. Thavisay MAOSOMPHOU	Xaysettha District Office,	Vice District Governor	
		VTE Capital		
23	Mr. Chansamone LUANGLAT	Office of Natural Resources	Head of Environment Unit	
		and Environment (ONRE) of		
		Xaysettha District, VTE		
		Capital		
24	Mr. Chanthavong PHONNACHIT	DONRE, LPB	Deputy Director	
25	Mr. Sackdaphone KEOPRACHAN	DONRE, LPB	Technical Officer, Environment	
			Section	
26	Ms. Douangmaly UNSAVATH	DONRE, LPB	Technical Officer, Environment	
			Section	
27	Ms. Kongmee VANTHAVISOUK	DONRE, LPB	Technical Officer, Environment	
			Section	
28	Ms. Tae NAKAYAMA	JICA / DONRE, LPB	JOCV	
29	Mr. Phoumy OPHETSANE	UDAA, LPB	Vice President	
30	Ms. Kaysone KOUSONSAVATH	UDAA, LPB	Head of Administration Section	
31	Mr. Chanthy PHOMSY	UDAA, LPB	Technical Officer	
32	Mr. Padit TAMMAVONGSAVANH	UDAA, LPB	Head of Solid Waste Management	
			Section	
33	Mr. Thongdy PHOMMACHACK	ONRE, LPB District	Director	
34	Mr. Souvanthone SOUKPHANSAY	ONRE, LPB District	Deputy Director	
35	Mr. Bounpheng CHITTAPHONE	Office of Public Work and	Director	
		Transport of LPB District		
36	Ms. Keola MANYCHIT	LPB Provincial Office	Head of Section	
37	Ms. Amphayphone	LPB Provincial Office	Technical Officer	
38	Ms. Thongphan TIANGANNATY	LPB District Office	Head of Administration	

39	Mr. Dr. Khamsone PHONGSAVATDY	LPB Provincial Hospital	Director
40	Mr. Khampouy KONGPHENG	LPB Provincial Hospital	Chief of Unit
41	Mr. Sing SITHAPANYA	Viengmay village	Chief of the Village
42	Mr. Silithat	Pakham Village	Chief of the Village
43	Mr. Somsack	Aphay Village	Chief of the Village
44	Ms. Vilaysit SOMMALAT	Vattaat Village	Chief of the Village
45	Ms. Monesay	Tabodsot Village	Chief of the Village
46	Mr. Somchit	Houasiang Village	Chief of the Village
47	Mr. Sukan	Naviengkham Village	Chief of the Village
48	Ms. Sompong	Viengxay Village	Deputy Chief of the Village
49	Mr. Bounliang	Pongvane Village	Chief of the Village
50	Mr. Siangsouk	Sangkhong Village	Chief of the Village
51	Ms. Boualiane CHANTHAVONG	Pongkham Secondary School	Teacher
52	Mr. Houmphan	Santhiparp Secondary School	Deputy Director
53	Mr. Bounpheng CHITTAPHONE	Office of Public Work and Transport of LPB District	Director
54	Mr. Dr. Vaetphet SIBOUNMA	DONRE, XYB	Deputy Director
55	Mr. Kitsamone PHOTHILACK	DONRE, XYB	Acting Director, Environment Unit
56	Mr. Vilasack SITTHISACK	DONRE, XYB	Technical staff
57	Ms. Momoko TAGUCHI	JICA/ DONRE, XYB	JOCV
58	Mr. Phuangkham VILAKEUT	DPWT, XYB	Deputy Director
59	Mr. Vilasack LINTHA VONG	DPWT, XYB	Technical Officer
60	Mr. Thonglan PHUAPHOM	UDAA, XYB	Vice Persident
61	Mr. Phattanong SONEPANH	UDAA, XYB	Technical Officer
62	Mr. Souliyan MANEKHONG	UDAA, XYB	Technical Officer

63	Mr. Khamphan PHANTHAVONG	ONRE, XYB	Director
64	Mr. Sengthavy	ONRE, XYB	Technical Officer
65	Mr. Dr. Khounsavat SENAPHAN	XYB Provicial Hospital	Deputy Director
66	Ms. Patoumvan DOUANGNGEN	XYB Provicial Hospital	Chief of Nurse
67	Mr. Viengsavanh SISOMBATH	JICA	Program Officer
68	Ms. Izumi IWAOKA	LPPO	Project Coordinator
69	Mr. Susumu SHIMURA	LPPE	Project Leader
70	Mr. Naofumi SATO	LPPE	Expert
71	Mr. Shinnosuke ODA	LPPE	Expert
72	Ms. Makiko INAMORI	LPPE	Project Coordinator
73	Mr. Dr. Sayamang NANTHANAVONE	LPPE	Assistant
74	Mr. Xaysavanh INTHAPANYA	LPPE	Assistant



Project Design Matrix (PDM₆)

Appendix 3

Project title: LPP Environmental Management Component

Target Area: Three pilot cities (Vientiane Capital, LPB District and Xayabouri District)

Period: August 2011-October 2015

Ver. 6 PDM₆ January 2015

	Narrarive Summary	Objectively verifiable indicators	Means of verification	Important assumptions
_	ct purpose otion of ESC in Laos is enhanced based on the AIESC.	The ESC Guidelines are widely used.	The number of cities formulated "Vision for ESC" Established institutional arrangement for the dissemination of the ESC Guidelines and its Manual. The number of cities newly registered as ESC.	
Outpo 1	The Guidelines on ESC is formulated and disseminated based on the National Environmental Strategy 2020 and related strategies and action plans.	The ESC Guidelines is formulated and disseminated.	Formulated ESC Guidelines The number of seminars/workshops held to disseminate the ESC Guidelines and the number of participating cities in Lao PDR. The number of seminars/workshops held to introduce the ESC Guidelines to the other ASEAN cities.	Environmental policy of the Lao Government is not drastically changed.
2	As part of urban environmental management (UEM), solid waste management (SWM) in the three pilot cities is improved based on the Guidelines on ESC.	As shown in the detailed PDM table for output 2 & 3 below.	Same as on the left	
3	Community-based urban environmental management for SWM is promoted in the three pilot cities.	 1. EEA Program for SWM improvement in the three pilot cities is formulated. 2. As shown in the detailed PDM table for output 2 & 3 below. 	Formulated EEA program Same as on the left	
Activ	ities	Inputs		
1.1	Basic environmental information of pilot cities are collected and analyzed	<from laos=""> Counterpart personnel from the </from>	<from japan=""> Experts of the following specialities </from>	2. The price of materials,
1.2	Laws, strategies and action plans for environmental management are collected and analyzed.	following organizations - MONRE	Team leader/urban environmental management	equipment and fuels is not drastically
1.3	The best practices of UEM in ASEAN countries are reviewed and their applicability to Laos is analyzed.	MPWT Local offices of MONRE and MPWT UDAAs (VUDAA) in pilot cities	 Deputy team leader/intermediate treatment/final disposal Water environment management 	increased. 3. Security is maintained in the
1.4	The visions for ESC of the pilot cities are formulated.	Other relevant organizations	Waste collection and transportCommunity-based urban environmental	pilot cities.
1.5	The action plans for the environment and development of the pilot cities are formulated. (*1)	Z. Facilities Offices for experts in Vientiane and	management (1)/environmental education Community-based urban environmental	



1.6	The ESC Guidelines of Laos are formulated.	pilot cities	management (2)/pilot project	
1.7	The ESC Guidelines of Laos are finalized and the manual for the guidelines is prepared.	Utilities such as electricity, water, sewerage, telephone, etc. of the	 Baseline survey on urban environmental management 	
1.8	Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities in Lao PDR.	offices. - Data and information	Healthcare Waste Management2. Cost of necessary survey3. Provision of equipment if necessary	
1.9	Introduction activities of the ESC Guidelines are implemented to the other ASEAN cities.	3. Operation cost	4. Support for operation cost 5. Training opportunity in Japan and/or ASEAN	
2.1	The pilot projects for urban environmental management are selected. (*2)		countries	
2.2	The pilot projects are planned.		<from as="" asean="" expected=""></from>	
2.3	The pilot projects are implemented.		Experts to be dispatched on demand	
2.4	The results of the pilot projects are presented.		2. Consultation and joint activities (study tour, data	
3.1	The best practices of community-based UEM in Laos are reviewed.		and information) 3. Training opportunity in ASEAN countries (cost sharing with JICA) 4. Support for resource mobilization	Pre-conditions
3.2	The best practices of Community-based UEM in ASEAN Countries are reviewed and their applicability to Laos is analyzed.			All relevant personnel participates the
3.3	The environmental education and awareness (EEA) programs for SWM improvement in the pilot cities are formulated.			project.
3.4	The EEA pilot projects to facilitate Activity 2.2 are planned.			
3.5	EEA Tools for SWM are developed and the implementation system is enhanced.			
3.6	The EEA pilot projects are implemented.			
3.7	The results of the EEA pilot project are analyzed.			
3.8	The EEA pilot projects are presented in collaboration with Activity 2.4			

- (*1) Action plans are to be formulated for SWM in Vientiane Capital, SWM in LPB District, SWM in Xayabouri District and water environment management in Vientiane Capital.
- (*2) Pilot projects are to be implemented for the improvement of SV/M in Vientiane Capital, LPB District and Xayabouri District.



[Objectively Verifiable Indicators and Means of Verifications of PDM(3) for Outputs 2 and 3 (Vientiane Capital)]

Narrative Summary	Objectively Verifiable Indicators and Means of Verifications of PDM(3) for Outputs 2 and 3 (Vientialie Capital)	Means of Verification
0 1 10	Indicator 2.1. 3Rs are promoted.	
As part of urban	 All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. 	 LPPE Progress Report and Monitoring Report LPPE Progress Report LPPE Progress Report
(SWM) in the three pilot cities is improved based on the Guidelines	mulcator 2.2. The solid waste conceptor system is improved.	Information from the collection company Information from the VUDAA LPPE Progress Report Waste collection and transportation plan
	Indicator 2.3. The operation of the final disposal site is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
1-1-	 Indicator 2.4. Healthcare waste management is improved. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan. 	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
54	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.	 1.1 VUDAA's regulation on waste discharge, collection and final disposal. 1.2 Draft amendment of VTE's regulation on SWM or additional implementation rules. 2. Proposal for financial system improvement necessary for SWM improvement
Output 3 Community-based	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	1. Formulated EEA program
urban environmental management for SWM is promoted	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 60% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 40% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 40% The rate of the households that separately discharge recyclable waste to all the households covered by primary collection PP: 70% 	 MONRE Monitoring Report and Information from the chief of the village MONRE Monitoring Report and Information from the chief of the village Information from the stalls MONRE Monitoring Report and Information from the chief of the village
Note	 Indicator 3.3. The residents cooperate with the waste collection system. Waste management groups are established in the existing collection improvement pilot villages. The fee payment rate of the households in 4 pilot project villages that newly make collection service contracts with the collection company maintains 90 %. The rate of the cooperating households to all the households covered by the primary collection PP: 70% 	Group member list Information from the VUDAA MONRE Monitoring Report and Information from the chief of the village

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages POS: Public opinion survey

Objectively Verifiable Indicators and Means of Verifications of PDM(4) for Outputs 2 and 3 (LPB)

Narrative Summary	Objectively Verifiable Indicators		Means of Verification
	Indicator 2.1. 3Rs are promoted.	 	indune of verification
As part of urban	1. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P.	1.	LPPE Progress Report and Monitoring Report
1 '	2. The activities of the promotion of recyclables discharge are implemented in one or more new villages under the instruction of the C/P.	2.	POS
	3. More than 30 hotels/ restaurants participate in the off-site compost project	3.	LPPE Progress Report
(UEM), solid waste	4. Compost is produced at the off-site compost plant.	4.	LPPE Progress Report
management	5. More than 30 hotels/guesthouses participate in the plastic shopping bag reduction project	5.	LPPE Progress Report
(SWM) in the three	6. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P.	6.	LPPE Progress Report
pilot cities is	7. The school recycling activities continue at the two pilot project schools.	7.	LPPE Progress Report
improved based on	Indicator 2.2. The solid waste collection system is improved.	<u> </u>	
the Guidelines on	1. A waste collection and transportation plan of LPB is formulated.	1.	Waste collection and transportation plan
ESC.	 The activities of the existing collection improvement PP are implemented in one or more new villages under the instruction of the C/P. 	2.	LPPE Progress Report
	3. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan.	3.	LPPE Progress Report, 10 units of public
	, and an experience (entry are an entry and en		containers (5m3)and container placement plan
	Indicator 2.3. The operation of the final disposal site is improved.		
	1. An operation plan of the final disposal site is formulated.	1.	Final disposal operation plan
	2. The final disposal site is operated in accordance with the operation plan.	2.	Final disposal operation record
	3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	3.	The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved.	1.	The healthcare waste collection, treatment and
	1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated.		disposal plan
	2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	2.	The record of healthcare waste collection,
1		<u> </u>	treatment and disposal.
- 55	Indicator 2.5. The following documents are prepared.	1.1	UDAA's regulation on waste diaduarge,
1	1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted.		collection and final disposal.
	2. Proposal for financial system improvement necessary for SWM improvement is prepared.	1.2	Draft amendment of LPB District's regulation
		ţ.	on SWM or additional implementation rules.
		2.	Proposal for financial system improvement
		_	necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	1.	Formulated EEA program
Community-based	Indicator 3.2. The residents participate the 3Rs activities.	1.	MONRE Monitoring Report and
urban environmental	11. The face of the hodgeholds that continue on one composite an are hodgeholds that started on one composition and provide that the face of the hodgeholds that continue on one composition that the hodgeholds that the hodgeholds the hodgeholds that the hodgeholds the hodgeholds that the hodgeholds the hod		Information from the chief of the village
management for	2. The rate of the households that separately discharge recyclable waste to all the households covered by primary collection	2.	MONRE Monitoring Report and
SWM is promoted in	PP: <u>70%</u>		Information from the chief of the village
the three pilot cities.	3. The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 30%	3.	MONRE Monitoring Report and
	4. The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 30%		Information from the chief of the village
	5. The cooperation rate of the school recycling at the PP schools is more than <u>50%</u> of total numbers of classes.	4.	Information from the state.
		5.	Information from the schools
	Indicator 3.3. The residents cooperate with the waste collection system.		
	1. Waste management groups are established in the existing collection improvement pilot villages.	1.	Group member list
	2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70%	2.	MONRE Monitoring Report and
	3. The rate of the households that follow new waste discharge rules to all the households covered by the collection service expansion PP: 70%		Information from the chief of the village
Note: "Ne	w villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages	3.	POS

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages

POS: Public opinion survey

Narrative Summary	Objectively Verifiable Indicators		Means of Verification
Output 2 As part of urban environmental management, solid waste management (SWM) in the three pilot cities is improved based on the	 Indicator 2.1. 3Rs are promoted. All barrels and bins are disseminated by Dec 2014 and kept monitored until the end of the project by C/P. The activities of the promotion of recyclables discharge are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. Plastic shopping bag reduction activities are started at one or more new places under the instruction of the C/P. The school recycling activities continue at the two pilot project (PP) schools. The community based recyclable waste recycling activities continue at the pilot project village. 	1. 2. 3. 4.	LPPE Progress Report and Monitoring Report POS LPPE Progress Report LPPE Progress Report
Guidelines on ESC.	 Indicator 2.2. The solid waste collection system is improved. A waste collection and transportation plan of XYB is formulated. The activities of the existing collection improvement PP are implemented in one or more new villages (or another new area in existing target villages) under the instruction of the C/P. 10 units of public containers (5m3) are assembled and they are placed in accordance with the container placement plan. 	1. 2. 3.	Waste collection and transportation plan LPPE Progress Report LPPE Progress Report, 10 units of public containers (5m3)and container placement plan
	Indicator 2.3. The operation of the final disposal site is improved. 1. An operation plan of the final disposal site is formulated. 2. The final disposal site is operated in accordance with the operation plan. 3. The final disposal site is monitored by the final disposal site monitoring committee once a year.	1. 2. 3.	Final disposal operation plan Final disposal operation record The monitoring report of the committee
	Indicator 2.4. Healthcare waste management is improved. 1. A healthcare waste collection, treatment and disposal plan for the target hospitals is formulated. 2. Healthcare waste from the target hospitals is collected, treated and disposed of in accordance with the aforementioned plan.	2.	The healthcare waste collection, treatment and disposal plan The record of healthcare waste collection, treatment and disposal.
1-156	Indicator 2.5. The following documents are prepared. 1. Regulation on the responsibilities of stakeholders for improved SWM is prepared and/or drafted. 2. Proposal for financial system improvement necessary for SWM improvement is prepared.		UDAA's regulation on waste discharge, collection and final disposal. Draft amendment of XYB District's regulation on SWM or additional implementation rules. Proposal for financial system improvement necessary for SWM improvement
Output 3	Indicator 3.1. EEA Program for SWM improvement in the three pilot cities is formulated.	1.	Formulated EEA program
Community-based urban environmental management for SWM is promoted in the three pilot cities.	 Indicator 3.2. The residents participate the 3Rs activities. The rate of the households that continue on-site compost to all the households that started on-site compost in all the pilot villages: 50% The rate of the households that separately discharge recyclable waste to all the households covered by primary collection PP: 70% The rate of the households that refuse plastic bags as many as possible to all the households in all the pilot villages: 25% The rate of the stalls that cooperate plastic bag reduction to all the stalls in all the pilot markets: 25% The cooperation rate of the school recycling at the two PP schools are more than 50% of total numbers of classes. Recyclable-waste recycling units are established in the pilot project village. 	1. 2. 3. 4. 5.	MONRE Monitoring Report and Information from the chief of the village MONRE Monitoring Report and Information from the chief of the village MONRE Monitoring Report and Information from the chief of the village Information from the stalls Information from the schools
Note: "New	Indicator 3.3. The residents cooperate with the waste collection system. 1. Waste management groups are established in the existing collection improvement pilot villages. 2. The rate of the cooperating households to all the households covered by the existing collection improvement PP: 70% villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages.	1. 2.	Group member list MONRE Monitoring Report and Information from the chief of the village

"New villages" mean the villages which are selected as targets after the pilot projects in the initially selected villages.

POS: Public opinion survey

Plan of Operation (PO₆) Ver.6 Appendix 4 PO₆: January 2015 Year Contract Term Year 1 Year 2 Year 3 Year 4 8 9 10 11 12 1 2 3 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 3 4 5 6 7 8 9 10 0. Common Activities for All Outputs 0.1 Preparation of IC/R 0.2 Discussion on IC/R 0.3 Capacity Assessment 0.4 Preparation of P/R 0.5 Wrap-up Workshop 1. Activities for Output 1 Collection and Analysis of Basic Environmental 1.1 Information of Pilot Cities Collection and Analysis of Laws, Strategies and Action Plans for Environmental Management Review of the Best Practices of UEM in ASEAN 1.3 Countries and Analysis of Their Applicability to Laos Formulation of the Vision for ESC of the Pilot 1.4 Cities Formulation of the Action Plan for the 1.5 Environment and Development of the Pilot Cities 1.6 Formulation of the ESC Guidelines of Laos Finalization of the ESC Guidelines of Lao and the Preparation of the Manual for the Guideline Dissemination activities of the ESC Guidelines are implemented to other (non-pilot) cities. 1.9 Introduction activities of the ESC Guidelines are implemented to the other ASEAN cities. 2. Activities for Output 2 Selection of Pilot Projects for Urban 2.1 Selection of All Environmental Management 2.2 Formulation of the Plans for the Pilot Projects 2.3 Implementation of the Pilot Projects 2.4 Presentation of the Results of the Pilot Projects 3. Activities for Output 3 Review of the Best Practices of Community~ 3.1 based UEM in Laos Review of the Best Practices of Community-3,2 based UEM in A Countries and Analysis of Their Applicability to Laos Formulation of the Environmental Education and 3.3 Awareness (EEA) Programs for SWM Improvement in the three pilot cities. Planning of the EEA Pilot Projects to Facilitate 3.4 Activity 2.2 3.5 Development of EEA Tools and Enhancement of the Implementation System 3.6 Implementation of the EEA Pilot Projects 3.7 Analysis of the Result of the EEA Pilot Projects Presentation of the EEA Pilot Project in Collaboration with Activity 2.4



MINUTES OF MEETINGS FOR THE NINTH TECHNICAL COMMITTEE ON

THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE LAOS PILOT PROGRAM FOR NARROWING THE DEVELOPMENT GAP TOWARDS ASEAN INTEGRATION

Vientiane, 18th September 2015

3-85

Mr. Susumu SHIMURA Team Leader of Short-term JICA Expert

Team for Environmental Component of LPP

Mr. Vanhxay PHIOMANYVONE

Project Manager of the C/P Team

Ministry of Natural Resources and Environment

The Ninth Technical Committee Meeting on the Project

The ninth technical committee meeting of "the Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" (hereinafter referred to as the Project) was held on the 18th September 2015 at Cosmo Hotel of Vientiane Capital. Mr. Phetsmone DALALOM, Deputy Director General, Pollution Control Department of Ministry of Natural Resource and Environment (hereinafter referred to as PCD of MONRE), chaired the meeting.

1. INTRODUCTION

The ninth technical committee meeting was preceded according to the agenda as shown in Appendix 1. A list of officials attending the meeting is given in Appendix 2

2. ISSUES AND DECISIONS

2.1 Submission of the Draft Final Report

The Short-term JICA Expert Team (SJET) informed the committee that they submitted and explained the following reports to the counterparts from September 10 to 11. Then SJET asked the counterparts to send their comments by September 19th 2015.

- 8 copies of the main report in Lao: one each to MONRE, MPWT, DONRE (VTE), VUDAA, DONRE (LPB), UDAA (LPB), DONRE (XYB) and UDAA (XYB)
- One copy of the main report in English to MPI
- 6 copies of the supplement books in English: one each to MONRE, MPI, MPWT, DONRE (VTE), DONRE (LPB) and DONRE (XYB)

The committee acknowledged the information.

2.2 Continuation and Dissemination of the Pilot Projects (PPs)

In program 4 of the agenda all 3 pilot cities expressed that they plan to continue and disseminate the PPs conducted in their cities.

The SJET appreciated their plans.

2.3 Appreciation of the LPPE

The chairman of the committee expressed his appreciation to JICA for the LPPE activities and expectation for the further cooperation of JICA.





Agenda

The agenda of the eighth technical committee meeting on 22nd January 2015 for the "Environmental Management Component of the Laos Pilot Program for Narrowing the Development Gap towards ASEAN Integration" is shown in the table below.

Time	Subject	Responsible Personnel
8:00 - 8:30	Registration	
8:30 – 8:50	P.1 Opening Speech	Deputy DG of PCD Representative of JICA
8:50 - 9:00	Group Photo	
9:00 – 9:30	P.2 Monitoring Report and Progress of the LPPE from September 2014 to January 2015	Deputy Director of Pollution Management Division of PCD
09:30 – 10:00 P.3 Planned Activities of the LPPE from February 2015 to September 2015 and Modification of PDM		Team Leader of LPPE
10:00 - 10:20	Coffee Break	
10:20 – 12:00	P.4 Results and Issues of PPs in Each Pilot Sites	Representatives from VTE, LPB and XYB
12:00 - 13:30	Lunch	
13:30 – 14:30	P.5 Discussion and Comment	• All
14:30 – 15:00	P.6 Conclusion of the 8 th TC	Deputy Director of Pollution Management Division of PCD
15:00 – 15:30	P.7 Closing Speech	Deputy DG of PCD





Appendix 2

Attendant List on the Ninth Technical Committee Meeting on 18th September 2015

No	Name	Organization	Title
1	Mr. Phetsamone	Ministry of Natural	Deputy Director General of
	DALALOM	Resources and Environment	Department of Pollution Control
		(MONRE)	(PCD)
2	Mr. Vanhxay	MONRE	Deputy Director of Pollution
	PHIOMANYVONE		Management Division (PMD), PCD
3	Mr. Sengkeo TASAKETH	MONRE	Technical officer, PMD, PCD
4	Mr.Noudeng	MONRE	Technical officer, PMD, PCD
	VONGDALA		
4	Mr. Sivanh	MONRE	Technical officer, PMD, PCD
	KHONESAVANH		
5	Mr. Nakkhalin	MONRE	Technical officer, PCD
	VORASARN		
6	Ms. Phatsada	MONRE	Technical officer, PMD,PCD
	SOUMPHOMPHUKDY		
7	Mr. Touysy	MONRE	Technical officer, PCD
	KHAMMANYKOTE		
8	Mr. Phonesavath	MONRE	Deputy Director of Pollution Control
	ANALUCK		Division, PCD
9	Ms. Soukpalamy	MONRE	Technical Officer, PCD
	DOUANGMALA		
10	Ms.Touythida	MONRE	Technical Officer, PCD
	MOONTICHIT		
11	Ms.Anusone	MONRE	Technical Officer, PCD
	NORLORKHAM		
12	Ms. Sinakhone	MONRE	Technical Officer, Cabinet Office
	VILAYCHIT		
13	Mr.Virachit	MPWT	Chief of Environment and Community
	DUANGCHAN		Development Division, MPWT
14	Ms.Rottana	DONRE, Vientiane Capital	Technical Officer
	PUANGMANYVONG		
15	Mr.Vilasack	DONRE, Vientiane Capital	Technical Officer
	VAENPASEUTH		
16	Ms.Toun	DONRE, Vientiane Capital	Technical Officer
	SOMMANYVONG		
17	Ms.Saylom PHIMPA	DPWT, Vientiane Capital	Technical Officer
18	Mr.Phoudone	VUDAA	Vice Chairman
İ	MEKSAWAN		
19	Mr.Sisouk THORATHA	VUDAA	Deputy Director of Division
20	Mr.Sonethavy	VUDAA	Director of Division of Waste
	PHIMMASANE	,	Collection and Service, VUDAA
21	Mr.Taveexay	Xaysettha District Office	Vice District Governor
	MAOSOMPHOU		



3 32

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22	Mr.Bounthaew	ONRE, Xaysettha District	Deputy Chief
	SANGDALA		
23	Mr.Chansamone	ONRE, Xaysettha District	Head of Environment Unit
24	LUANGLATH	N7.11	OL: C CYVIII
24	Mr.Vittayalai	Nonesawan Village	Chief of Village
25	Ms. Chanmaly	Nonesawang Village	Deputy Chief of Village
26	LUANGLATH	TT 1 1 X7'II	CI. C. CAVIII
26	Mr.Khammun	Hongsuphab Village	Chief of Village
27	THAMMAVONG Mr.Suraphol SOULAKOUN	DONRE, Luang Prabang	Chief of Division
28	Mr. Khampadith	DONRE, LPB	Deputy Chief
28	PHONNACHIT	DONKE, LFB	Deputy Ciner
29	Mr. Sackdaphone	DONRE, LPB	Technical Officer, Environment
29	KEOPRACHAN	DONKE, LI B	Section
30	Mr.Sisamlan	DONRE, LPB	Technical Officer, Environment
30	CHANTHADETH	DONKE, LI B	Section
31	Mr. Phoumy OPHETSANE	UDAA, LPB	Vice President
32	Mr.Somdy	UDAA, LPB	Vice President Vice President
32	PHONESAWATDEE	ODAA, LFB	vice riesident
33	Ms. Kaysone	UDAA, LPB	Head of Administration Section
33	KOUSONSAVATH	ODM, Di B	ricad of Administration Section
34	Mr. Inpeng	UDAA, LPB	Technical Officer
٠.	DANGVILAYTHONG	021111, 212	
35	Dr.Siphone SOMPHALEE	Department of Health, LPB	Deputy Director
36	Mr. Phiboun	Department of Health, LPB	Technical Officer
	CHALEUNSEE		
37	Mr.Kaew MITTAPHONE	Department of Health, LPB	Technical Officer
38	Mr. Suwanthong	ONRE, LPB	Deputy Chief
	SOUKPHANSAY		
39	Mr.Supanusith AROUN	ONRE, LPB	Deputy Chief
40	Mr.Onkaew	ONRE, LPB	Technical Staff
	NGAOKHAMVONGSA		
41	Dr.Thongput	Provincial Hospital, LPB	Deputy Director
	SOUKKASERM		
42	Mr. Khampouy	Provincial Hospital, LPB	Technical Officer
	KONGPHENG		
43	Mr.Noukham	Provincial Hospital, LPB	Technical Officer
	CHITTIVONGSA		
44	Mr.Chattawa	DoNRE, XYA	Director
	KAEWKHAMPHET		
45	Mr.Chaiyaluck	DoNRE, XYB	Chief of Division
	LOMTHONGSY		
46	Mr.Kitsamone	DoNRE, XYB	Technical Officer ,
	PHOTHILUCK		
47	Mr.Chanthone BOUNMEE	DoNRE, XYB	Technical Officer

48	Mr.Thonglan	UDAA, XYB	Vice President
40	PHOUEPHOM	ODAA, ATB	vice i resident
49	Mr.Phattanong SONEPHAN	UDAA, XYB	Director of Division
50	Mr.Souliyan MUNKHONG	UDAA, XYB	Technical Officer
51	Mr.Khammexay KHEMMEXAY	UDAA, XYB	Technical Officer
52	Mr.Khampuang VILAKETH	DPWT, XYB	Deputy Director
53	Ms.Buaphone RAKPASITH	DPWT, XYB	Deputy Director of Division
54	Mr.Vilaysak LINHAVONG	DPWT, XYB	Technical Officer
55	Mr.Sangphet SOMSUBHA	DPWT, XYB	Technical Officer
56	Mr.Khamphan PHANTHAVONG	ONRE, XYB	Director
57	Mr.Sangthavy PHONSONGKHAM	ONRE, XYB	Technical Officer
58	Mr.Lortock KAEWSEESOM	ONRE, XYB	Technical Officer
59	Dr.Sermchai SOUVONG	DOH, XYB	Chief of Administration Office
60	Ms.Aloudeth SOURPHILA	DOH, XYB	Technical Officer
61	Mr.Santi PHONEPHILAN	DOH, XYB	Technical Officer
62	Mr.Kounsavath SENAPHAN	Provincial Hospital, XYB	Deputy Director
63	Ms.Pathumvan DUANGGERN	Provincial Hospital, XYB	Technical Officer
64	Mr. Somlath SIVILAI	Provincial Hospital, XYB	Technical Officer
65	Ms. Nao HABE	JICA	Representative
66	Ms. Phatsamalee LOMYA	LPPO	Officer
67	Mr. Susumu SHIMURA	LPPE	Project Leader
68	Mr. Naofumi SATO	LPPE	Expert
69	Mr. Shinnosuke ODA	LPPE	Expert
70	Mr. Tamotsu SUZUKI	LPPE	Expert
71	Ms. Makiko INAMORI	LPPE	Project Coordinator
72	Dr. Sayamang NANTHANAVONE	LPPE	Assistant
73	Mr.Precha CHUNTAKORN	LPPE	Assistant
74	Mr. Xaysavanh INTHAPANYA	LPPE	Assistant



