Attach-3: List of Collected Data

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Attach-4: Photo during Field Survey (1st ~ 6th)

Photo of 1st Field Survey (1/2)



Photo-1 (February 10, 2004) Courtesy Call to Minister of MIH



Photo-2 (February 17, 2004) Inception Discussion



Photo-3 (February 20, 2004) PDIH Visit (Oudomxay)



Photo-4 (February 20, 2004) EDL Branch Office Visit (Oudomxay)



Photo-5 (February 21, 2004) Nam Dong Hydropower Visit



Photo-6 (March 03, 2004) Coordination Meeting

Photo of 1st Field Survey (2/2)



Photo-7 (March 04, 2004) Workshop Presentation by Study Team



Photo-8 (March 17, 2004) Workshop Presentation by PDIH



Photo-9 (March 04, 2004) Workshop, Tea Break



Photo-10 (March 05, 2004) Workshop, Lunch Time



Photo-11 (March 05, 2004) Nam Mang 3 Hydropower Construction Site Visit



Photo-12 (March 05, 2004) Nam Mang 3 Hydropower Impounded Area Visit

Photo of 2nd Field Survey (1/3)



Photo-1 (July 05, 2004) Opening Speech by Mr. Nishiwaki, JICA and Mr. Humophone, MIH/DOE



Photo-2 (July 05, 2004) Trainee, DOE member, JICA Study Team, and staffs of the Lecture

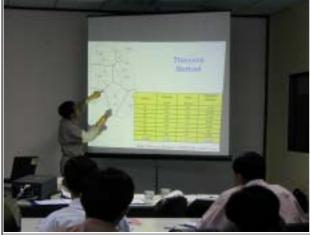


Photo-3 (July 06, 2004) Hydrology for catchments Thiessen Method, by Mr. Ouchi



Photo-4 (July 06, 2004) Lao Interpretation and supplementary explanation by DOE member

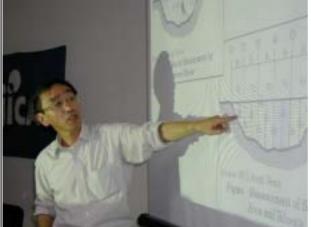


Photo-5 (July 06, 2004) Ouchi



Photo-6 (July 06, 2004) Hydrology, how to determine river cross section by Mr. Teaching how to use current meter for discharge measurement by DOE staff

Photo of 2nd Field Survey (2/3)



Photo-7 (July 06, 2004) Lecture of basic electricity, Mr. Mochizuki



Photo-8 (July 09, 2004) The first discussion



Photo-9 (July 19, 2004) Map study



Photo-10 (July 21, 2004) Visit of Nam Ngum Power Station and having a ecture of O&M in the site



Photo-11 (July 21, 2004) Visit the dam site of Nam Ngum Power Station



Photo-12 (July 21, 2004) Having explanations of Francis turbine maintenance of Nam Ngum PS

Photo of 2nd Field Survey (3/3)



Photo-13 (July 21, 2004) Visit of Thalath Substation



Photo-14 (July 22, 2004)
Discussion on unit cost and tariff calculated by PDIH,
Mr. Nishimaki



Photo-15 (July 23, 2004) Map study and discussion about site reconnaissance



Photo-16 (July 23, 2004) Awarding of the certificate



Photo-17 (July 23, 2004) Training planner and DOE staff after awarding



Photo-18 (July 23, 2004) Farewell party

Photo of 3rd Field Survey (1/2)



Photo-1 (November 24, 2004) Project data hearing for Houay Khouan Project at Viengkham District Office, Luangprabang Province



Photo-2 (November 26, 2004) Project data hearing for Nam Pha Project at Village house of B.Tatmouan, Oudomxay Province



Photo-3 (November 23, 2004) River Discharge Measurement at Nam Mi Project Site in Vienkham of Luanpurabang Province



Photo-4 (November 25, 2004) Water Level Gauge Staff installed at Nam Xen Project in B.Pak Um of Luangprabang Province in late April 2004



Photo-5 (November 23, 2004) Site Reconnaissance in river at Houay Khouan Project Site in Luangprabang Province



Photo-6 (November 25, 2004) Welcome Lunch Party at Nam Xen River in Luangprabang Province

Photo of 3rd Field Survey (2/2)



Photo-7 (November 30, 2004) Project data hearing at Nam Choung Project in Muang Meung District, Bokeo Province



Photo-8 (November 26, 2004) River Discharge Measurement Works at Nam Pha Project, Luangnamtha Province



Photo-9 (December 03, 2004) Water Level Gauge Staff installed at Nam Gnone Project | Site Reconnaissance in bush at Nam Hat Project Site, in Bokeo Province, in late April 2004



Photo-10 (November 28, 2004) **Bokeo Province**



Photo-11 (November 28, 2004) Site Reconnaissance in river at Nam Hat Project Site, Bokeo Province



Photo-12 (December 01, 2004) Pico-hydropower at Muang Meuag for Nam Chung Project, Bokeo Province

Photo of 4th Field Survey



Photo-1 (March 07, 2005) 2nd Workshop Opening Speech by Mr. Mori, JICA



Photo-2 (March 07, 2005) 2nd Workshop Presentation



Photo-3 (March 01, 2005) Opening Speech in 3rd PDIH Training



Photo-4 (March 01, 2005) Lecture in 3rd PDIH Training



Photo-5 (March 05, 2005) EDL Training Center



Photo-6 (February 04, 2005) Nam Ken HPP Site Reconnaissance

Photo of 5th Field Survey



Photo-1 (July 22, 2005) CDM Seminar



Photo-2 (July 12, 2005) Kuwanxi OPS at Luang Phrabang



Photo-3 (July 18, 2005) 4th Lecture (Economics)



Photo-4 (July 19, 2005) 4th Lecture (GIS)



Photo-5 (July 21, 2005) CDM Seminar



Photo-6 (July 22, 2005) Football Match with DOE/PDIH Team

Photo of 6th Field Survey



Photo-1 The Luangphrabang Provincial Hall, Place of Workshop (02 Nov. 2005)



Photo-2 Exhibition of Photographs of Capacity Building & GIS Maps in the Master Plan Study (02 Nov. 2005)



Photo-3 Panel Discussion with 7-Panelist on Off-grid Small-Hydro, Main Event of Workshop (03 Nov. 2005)



Photo-4 Presentation of JICA's Policy on Rutral Electrification by Dr. Niwa, JICA Senior Advisor



Photo-5 Declaration of Rural Electrification Promotion by MIH Vice Minister Dr. Nam (03 Nov. 2005)



Photo-6 Handing Over of Symbol Flags to 8-PDIH, DOE and JICA Laos Office (03 Nov. 2005)

Attach-5: Member List of DOE/PDIH and JICA Study Team

1. DOE Counterparts

No.	Name	Position
1	Mr. Chansaveng BOUNYONG	Head of Div.
2	Mr. Khonephet SAMDUNTY	Deputy Head
3	Mr. Phonesavanh PHIMMASONE	Staff 1
4	Mr. Litthanouloke LADSAPHO	Staff 2
5	Mr. Sanhya SOMVICHITH	Staff 3
6	Mr. Vithounlabandith THOUMMABOUT	Staff 4
7	Mr. Lamphone DIMANIVONG	Staff 5
8	Mr. Akhomdeth VONGSAY	Staff 6

2. PDIH Trainees

No.	Name of Province	Name				
1	Dhonasalri	Mr. Ounneua SIVANPHENG				
1	Phongsaly	Mr. Khamfong				
2	Luananamtha	Mr. Khamphone				
2	Luangnamtha	Mr. Sengdeuan SIMMANIVONG				
3	Oudomyay	Mr. Vanhla VONGMANY				
3	Oudomxay	Mr. Sayseng CHINDAVONG				
4	Mr. Thongdy PHOMPANYA	Mr. Thongdy PHOMPANYA				
4	Бокео	Mr. Kim VIHALAD				
5	Luangphrabang	Mr. Misayphon VILAYHONG				
3		Mr. Alounkone PHOTHIPANYA				
6	Huonhonh	Mr. Bountheuang PHOMMAVONGXAY				
0	Huaphanh	Mr. Ketvilay PHOMMALY				
7	Variabilities	Mr. Khamkay VONGSY				
/	Xayabury	Mr. Ounheun KANTHAVONG				
8	Vianalihuana	Mr. Khamkeut PHOSAVANH				
8	Xiengkhuang	Mr. Khonkeo				

3. JICA Study Team

Name	Position	Work Items
1. Ichiro ARAKI	Team Leader / Small Hydropower Planner	 Manage overall investigation Meeting with Laotian governmental officials Supervise and coordinate work progress Advise and guide team members Finalizing off-grid small hydropower plans on province level Finalizing the final policy suggestion of off-grid small hydropower scheme promotion Finalizing the manuals of Small Hydropower Planning Taking responsibility for explanations and discussions of workshops and Coordinating Meeting Taking responsibility for completion, submission, explanation, and discussion of all reports Manage overall support and arrangement of counterpart training in Japan Manage overall technology transfer and capacity building program
2. Hiroshi NISHIMAKI	Power Policy / Organization Expert	 Collection and analysis of the information of power sector policy in Lao PDR Collection and analysis of the information concerning off-grid electrification policy Analysis of policy issues of off-grid small hydropower promotion and suggestion of methodology for improvement Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
3. Takuji KATAOKA	Small Hydropower Planner / O&M Expert	 Data and information collection and analysis of small hydropower planning sites expected in northern 8 provinces Data and information collection and analysis of off-grid electrification plans in northern 8 provinces and districts Preparation of manuals of Small Hydropower Planning on responsible tasks Assumption of power demand on district level Selection of small hydropower planning sites on province level Study on potential small hydropower planning sites Field reconnaissance of candidate small hydropower sites Supervision of local subletting (topo-survey) Preparation of the most appropriate power supply plans and cost estimation of operation and maintenance on Pre-FS Analysis of operation and maintenance problems concerning off-grid small hydropower scheme promotion and suggestion of countermeasures Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
4. Takafumi KADONO	Small Hydropower Facilities Expert (Civil)	 Field reconnaissance of candidate small hydropower sites Evaluation and analysis of meteorological and hydrological data on Pre-FS Design of facilities, planning of construction, and cost estimation on civil field on Pre-FS Preparation of report of responsible tasks Transfer of technology of responsible work field
5. Minoru OHUCHI	Hydropower Training Planner	 Discussion on training programs with the counterparts Preparation of training programs Preparation of manuals of Small Hydropower Planning Execution of training to the counterparts Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
6. Hiromichi MOCHIZUKI	Small Hydropower Facilities Expert (Electricity)/T L & DL Planner	 Field reconnaissance of candidate small hydropower sites Design of facilities, planning of construction, and cost estimation on Pre-FS on electricity, machine equipment, and transmission and distribution facilities Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
7. Kazuyuki NAGAO	Economic and Financial Analyst	 Analysis of financial issues for the promotion of off-grid small hydropower schemes such as fund procurement and tariff system and suggestion of measures for the improvement Economic and financial analysis on Pre-FS Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field

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Name	Position	Work Items
8. Tetsuo KUYAMA	EIA Expert	 Field reconnaissance of candidate small hydropower sites Preliminary environmental impact assessment on Pre-FS Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
9. Takeshi YAMASHITA	Socio- economic Survey Expert	Field reconnaissance of the candidate small hydropower site Village socio-economic survey Supervision of local subletting (village socio-economic survey) Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
10. Makoto SUNAGAWA	P P P Expert	 Collection of the existing methodologies for public-private partnership Collection and analysis of the information of public-private partnership in Lao PDR Preparation of report of responsible tasks Transfer of technology of responsible work field
11. Masaru ISHIKAWA	C D M Expert	Execution of training to the counterparts Study for the applicability of CDM in small hydropower Preparation of report of responsible tasks Transfer of technology of responsible work field
12. Akihiro SUGITA	G I S Expert	Supervision of local subletting (GIS data collection) Construction of GIS system Accumulation of GIS system data Explanation and discussion of responsible work field at workshops and Coordinating Meeting Preparation of report of responsible tasks Transfer of technology of responsible work field
13. Yuka NAKAGAWA	Coordinator / Assistant Training Planner	Support works of the team leader Support works of hydropower training specialist
14. Kensuke YAMAMURA	Coordinator / Assistant Small Hydro Planner	Support works of the team leader Support works of small hydropower planning
15. Reiko NOBUHIRO	Coordinator / Assistant Small Hydro Planner	Support works of the team leader Support works of small hydropower planning

Attach-6: Actual Manning Schedule for Master Plan Study

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Stuffing Schedule of the Master Plan Study on Small-Hydro in Northern Laos