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<http://www.who.org>



## **APPENDICES**



**I. Before the RFMC was formed**

- 1.1 What was the livelihood in the past and in the present? Please describe?
- 1.2 Could you please describe the fishing pattern five years ago and in the present?
- 1.3 At the moment, does a system to register fishermen exist?
- 1.4 What has happened to the average income of the fishermen in the village?  
 increased                       decreased  
 why?.....
- 1.5 Was there any illegal fishing practiced widely in the village?                      Yes                      No  
 if yes, please describe  
 -previously.....currently.....

**II. After the RFMC was formed in 2001**

- 2.1 Since the MRC has supported the management of reservoir fisheries in 2000, have you observed what changes the project has achieved ?
- 2.2 How the RFMC was founded in 2001 and was there any RFMC organization chart?  
Yes                      No  
 Why ?.....
- 2.3 Was there any roles and responsibilities of the RFMC officially documented?
- 2.4 Has the management capacity of the RFMC members been strengthened?  
 - Project Management: proposal/monitoring/reporting/evaluating                      Yes                      No  
 -Technical Training: Fishing station                      Yes                      No  
 -Fish Processing Training                      Yes                      No  
 -Fish Marketing System Management                      Yes                      No  
 -Fishing Rule and Regulation                      Yes                      No  
 -Others, please specify.....
- 2.5 Is fund supported by MRC sufficient for implementation of the RFMC Annual Work Plans?  
Yes                      No  
 Why?.....
- 2.6 Among the Annual Work Plans? Could you please prioritize what are the most necessary activities which required to take place seriously?  
 1. .... 2..... 3. ....  
 please explain why?  
 .....
- 2.7 So far, does the Project have the necessary support from other stake holders: the fishermen, villagers, fish traders involve in the form of activities participation, planning, monitoring, patrolling and evaluation?  
 .....
- 2.8 What are the constraints have been founded during project implementation?  
 (Please list them all)  
 - How those things have been solved?

- 2.9 How the Reservoir Development Fund(RDF) is functioning ?
- 2.10 What would be the best way for income generation to support RFMC’s operation?  
 1. .... 2..... 3. ....  
 please explain why?  
 .....
- 2.11 From your point of view what are the strengths and limitation of RFMC?  
 Strengths .....  
 Limitation .....  
 How to improve the limitation ?

**III Future plans for sustained fisheries project:**

- 3.1 Will the RFMC continue to implement the fisheries programme if the MRC support is finished in 2005?
- 3.2 What else has been arranged for community self sufficient ? in term of:  
 . Resources arrangement:.....  
 . Financial arrangement.: .....  
 . Technical expertise: .....  
 . Management arrangement: : .....  
 . Personnel arrangement: .....
- 3.3 Are the resource available to run the activities after MRC funding has ended ?
- 3.4 Will you continue serving as the RFMC team in the next couple of year ? □Yes                      □No  
 Why?.....
- 3.5 If you have 1,200,000 kip (~100 \$) what would you do ? please list 3 items  
 1..... 2..... 3.....
- 3.6 What would you like to suggest to the RFMC for future improvement?

**Household Income per year.**

Name of Activities	Output Productivity Ton/Kg/piece	Output in cash Lao Kip	Equivalent To US Dollars	Seasonal Calendar Jan-Dec
<b>I. Natural Based Activities:</b>				
1. Rice Cropping				
2. Plantation:				
2.1 Cucumber				
2.2 Eucalyptus				
2.3 Rubber Tree				
2.4 Tamarind				
2.5 Mango				
2.6				
2.7				
<b>II. Income from Livestock</b>				
1. Fisheries				
2. Aquatic Animals				
3. Pig				
4. Chicken				
5. Duck				
6. Cattle				
7. Buffalo				
8.				
9.				
<b>III. Income from laboring-skillful job</b>				
1. Handicraft				
2. Textile				
3. Carpenter				
4. Construction Worker				
5. Factory Worker				
6.				
7.				
<b>IV. Income from social or/and formal obligation</b>				
1. Government official				
2. Local Committee				
3. Village care takers				
4. Fishermen Group				
5. RFMC				
6. Special training/teaching...				
7. Religious Activities				
8.				
9.				
<b>TOTAL</b>				



**I. Questions about awareness of MRC's Fisheries Programme**

- 1.1 Are you aware of the MRC's Fisheries Programme?  
.....
- 1.2 How do you think about the current Angnamhoum Reservoir Fisheries Programme?  
.....
- 1.3 What has been changed in the Reservoir –Fisheries Programme?  
-positively:.....  
-negatively:.....  
.....
- 1.4 What are the fisheries phenomenon?  
.....
- 1.5 What are the problems you have encountered fishing?  
.....
- 1.6 Do people still violent the fishing rule/regulation?  
.....
- 1.7 What is the migration pattern? Has it increased or decreased?  
.....

**II. Questions about the Roles of RFMC**

- 2.1 If you encountered technical fishing difficulties, who did you consult?  
.....
- 2.2 Are you aware of the existence of the Reservoir Fisheries Management Committee (RFMC)?  
.....
- 2.3 What changes has the RFMC has achieved, in the term of
  - Raising Awareness on fishing Rule-Regulation
  - Project Management: Patrolling System
  - Income Generation
  - Social gatherings, Meetings
  - Consultancy: technical fishing, fish processing and other related issues
  - Preservation of the environment
  - Others
 .....
- 2.4 Does the RFMC participate in solving fisheries problems?  
.....
- 2.5 Ware the fishing rules and regulation explained to all?, How many times per year?  
.....

2.6 What kind of activities have you attended? How many times per year?  
please describe ?

.....

2.7 Were you attended by District Project Coordinators? How many times per year?  
Please describe?

.....

2.8 Were you attended by the Central Officers? How many times per year? Please  
describe?

.....

2.9 What is the average income from fisheries ? Has it increased or decreased? Why?

.....

2.10 Are you satisfy with the bidding process? Fish collecting? Pricing?

.....

2.11 How do you benefit from the MRC's Fisheries Programme?

.....

2.12 How do you evaluate the MRC's Management of Reservoir Fisheries?

.....

### **III. Questions about sustainability of the Fisheries Programme.**

3.1 Will you or your family continue fishing at Angnamhourm Reservoir? Why?

.....

3.2 What would be a suggestion for further improvement, especially to the reservoir  
fisheries project in your village?

.....

3.3 Will you take part in project improvement in the future?

.....

3.3 What is your commitment to Fisheries at Namhoum Reservoir, in order to sustain  
fisheries in the next decade?

.....



## APPENDIX A.3

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**Form-3. Questions for implementing agencies**  
 Methodology: In-depth interview  
 (Name of Researcher:....., Date of interview,.....Time.....)

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 MRC

 LARReC

 DAFO

1. What are the strategic roles and responsibility of your organization?
2. What are the objectives of the MRRF II Project?
3. Could you please explain about the co-management?
4. Who are the stakeholders? And why?
5. What kind of the assistance has your organization contributed to MRRF II?
6. How did the MRRF II at Namhoum Reservoir get start?
7. Who are the target groups? And why?
8. Could you please explain the project cycle of MRRF II?
9. Could you please explain the selection process of RFMC members?
10. What did you observe after the RFMC members received training?
11. Could you please explain the fish marketing process (biding process)?
12. What are the annual catchments at Namhoum reservoir? It is increased or decreased? Why?
13. How many fishermen in the project?
14. How fishermen violate the fishing rule and regulation?
15. Do fishermen have sufficient fishing gear support from this project? Why?
16. What are the enforcements prepared to serve this project?
17. What are the networking systems of the project?
18. How long this project will last? And why?
19. What are the lessons learnt you gained from MRRF (Phase I)?
20. What are the problems that the organization has encountered from MRRF II?
21. How those problems were solved?
22. Are there any government policy that responses to those problems?
23. What are the suggestions for improving the project in the future?

## APPENDIX B.1

### SUMMARY on Background of Focus Group Angnamhoum Village

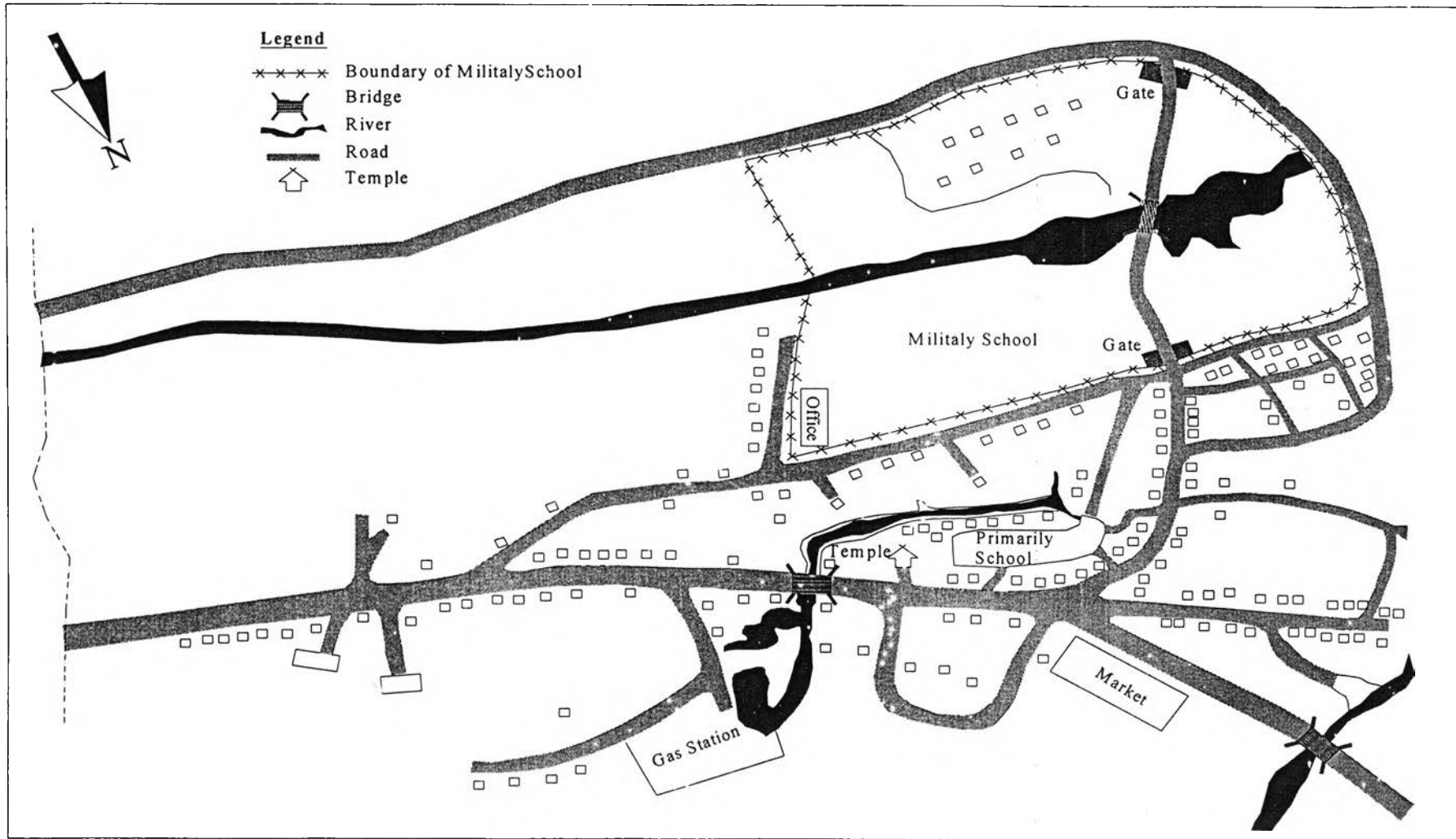
No.		Coding	Value	Frequency (f)	Valid Percent
I	Gender	1	Male	15	37.5
		2	Female	25	62.4
			Total Valid n.	40	100.0
II	Marital Status	1	Single	4	10.0
		2	Married	36	90.0
			Total Valid n.	40	100
III	Age	1	10-19	2	5.0
		2	20-29	3	7.5
		3	30-39	13	32.5
		4	40-49	4	10.0
		5	50-59	14	35.0
		6	>60	4	10.0
			Total Valid n.	40	100
IV	Education	1	Primary School	19	47.5
		2	Secondary School	10	25.0
		3	High School	7	17.5
		4	College	1	2.5
		5	University	0	0
		99	N/A	3	7.5
			Total Valid n.	40	100
V	Occupation Before 2000	1	Employment	6	15.0
		2	Fisherman	7	17.5
		3	Farmer	10	25.0
		4	Trader	1	2.5
		5	Student	2	5.0
		6	Worker	1	2.5
		7	Handicraft	13	32.5
		99	N/A	0	0.0
	Total Valid n.	40	100		
VI	Occupation After 2000 (2005)	1	Employment	1	2.5
		2	Fisherman	17	42.4
		3	Farmer	7	17.5
		4	Trader	0	0
		5	Student	5.0	5.0
		6	Worker	0	0
		7	Handicraft	13	32.5
		99	N/A	0	0
	Total Valid n.	40	100		

## APPENDIX B.2

### SUMMARY on Background of Focus Group Hoinamyen Village

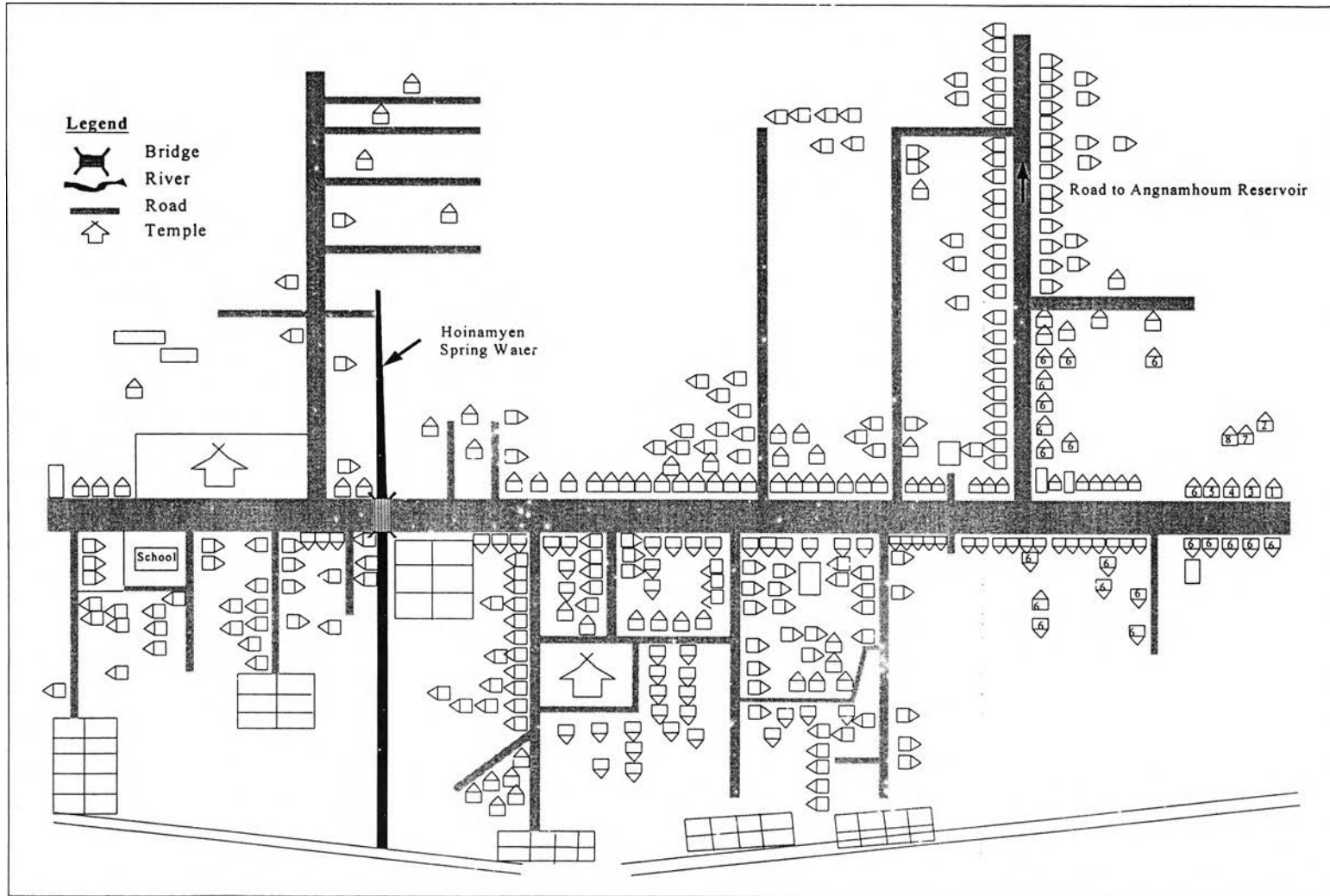
No.		Coding	Value	Frequency (f)	Valid Percent
I	Gender	1	Male	12	30
		2	Female	28	70
			Total Valid n.	40	100
II	Marital Status	1	Single	0	0
		2	Married	40	100
			Total Valid n.	40	100
III	Age	1	10-19	0	0
		2	20-29	1	2.5
		3	30-39	9	22.5
		4	40-49	19	47.5
		5	50-59	10	25.0
		6	>60	1	2.5
			Total Valid n.	40	100
IV	Education	1	Primary School	25	62.5
		2	Secondary School	13	32.5
		3	High School	0	0
		4	College	1	2.5
		5	University	0	0
		99	N/A	1	2.5
			Total Valid n.	40	100
V	Occupation Before 2000	1	Employment	3	7.5
		2	Fishermen	7	17.5
		3	Farmer	24	60.0
		4	Trader	2	5.0
		5	Student	0	0
		6	Worker	0	0
		7	Handicraft	4	10.0
		99	N/A	0	0
	Total Valid n.	40	100		
VI	Occupation After 2000 (2005)	1	Employment	4	10.0
		2	Fisherman	11	27.5
		3	Farmer	19	47.5
		4	Trader	2	5.0
		5	Student	0	0
		6	Worker	0	0
		7	Handicraft	4	10
		99	N/A	0	0
	Total Valid n.	40	100		

## APPENDIX C.1 Map of Angnamhoum Village



Source: Angnamhoum Village Authority 2002

## APPENDIX C.2 Map of Hoinamyen Village



Source: Hoinamyen Village Authority 2004

## APPENDIX D.1

### Seasonal Calendar: Angnamhoum Village Livelihood pattern and income generation by activities

No.	Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Remarks		
														1	2	
I	Land Based Activities															
	1. Rice Cultivation															
	- wet season rice															
	- irrigated rice															
	2. Permanent Crop															
	. akgard wood															
	. coconut															
	. eucalyptus	■	■													Δ
	. rubber tree															
	3. Fruit Trees															
	. banana				■	■	■	■								Δ
	. Jackfruit				■	■	■	■								Δ
	. lemon				■	■	■	■								Δ
	. mango.				■	■	■	■							Δ	
	. tamarind				■	■	■	■							Δ	
	4. Vegetables															
	. breccias	■	■										■	■		Δ
. cucumber	■	■										■	■	Δ		
Lettuce	■	■										■	■		Δ	
. tomato	■	■										■	■		Δ	
II.	Water Based Activities															
	- fish stocking				■	■	■	■								
	- fish spawn					■	■	■	■							
	- fisheries	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
	- other aquatic animal	■	■	■	■	■	■	■	■	■	■	■	■		Δ	
	- boats rental	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
III	Domestic Animals															
	1 Livestock															
	. buffalo	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
	. cattle	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
	. pig	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
	2 Poultry															
	. chicken	■	■	■	■	■	■	■	■	■	■	■	■		Δ	
. duck	■	■	■	■	■	■	■	■	■	■	■	■		Δ		
IV	Skillful/labouring Activities															
	- construction			■	■	■	■				■	■	■	Δ		
	- driving	■	■				■	■	■					Δ		
	- trading	■	■				■	■	■					Δ		
	- weaving	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
V	Social work															
	- village volunteers	■	■	■	■	■	■	■	■	■	■	■	■		Δ	
	- village authorities	■	■	■	■	■	■	■	■	■	■	■	■	Δ		
	- local committees	■	■	■	■	■	■	■	■	■	■	■	■		Δ	
	- religious activities	■			■				■		■				Δ	

**Remark:**

1: Commercial purposes

2: Non-Commercial purpose

## APPENDIX D.2

**Seasonal Calendar: Hoinamyen Village**  
**Livelihood pattern and income generation by activities**

No.	Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Remark		
														1	2	
I	Land Based Activities														1	2
	1. Rice Cultivation															
	- Wet season rice														Δ	
	- Irrigated rice														Δ	
	2. Pemernant Crop															
	. akgard wood															
	. coconut															
	. eucalyptus															
	. rubber tree															
	3. Fruit Trees															
	. banana															
	. Jackfruit															
	. lemon															
	. mangle.															Δ
	. tamarind															Δ
	4. Vegetable															
	. breccias															
. cucumber														Δ		
. salad																
. tomato														Δ		
II.	Water Based Activities															
	- fish stocking															
	- fish spawn															
	- fisheries													Δ		
	- other aquatic animal														Δ	
	- boats rental													Δ		
III	Domestic Animals															
	1 Livestock															
	. buffalo														Δ	
	. cattle														Δ	
	. pig														Δ	
	2 Poultry															
	. chicken														Δ	
. duck														Δ		
IV	Skillful/labouring Activities															
	- construction															
	- driving															
	- trading													Δ		
	- weaving													Δ		
V	Social work															
	- village volunteer														Δ	
	- village authority													Δ		
	- Local Committee														Δ	
	- Religious activities														Δ	

**Remark**

1: Commercial purposes

2: Non-Commercial purpose

## APPENDIX E.1

### HIGH LIGHTS OF (MRRF II) PROJECT INTERVENTION 2000-2005

	1999	2000	2001	2002	2003	2004	2005
JAN				1 <sup>st</sup> RTC Follow up Workshop, held at LARReC	Patrolling Act. Implemented.	Annual review of reservoir management plans (2003-2004)	
FEB		End of project phase 1 (1995-2000)	DFMC established				
MAR		Start of project phase 2 (2000-2005)		Workshop on fish cage culture in reservoirs	RFMC training on PME and dev't. fund		Annual Review of reservoir management plans (2004-2005)
APR						Training for RFMC on fish breeding and operation of mobile hatchery (for Huay Siet and Pak Peung)	
MAY	PRA training for project staff	Selection of target reservoirs	1 <sup>st</sup> RTC: in Laos-Thailand				



	1999	2000	2001	2002	2003	2004	2005
JUN		PRA Survey Conducted at four reservoirs (NH, NS, HS, PP)				Fish nursing trial in pond (silver barb) conducted at Paksan (for HS and PP)	
JUL		Pre-inception workshop (national)	RFMC established		Reservoir Development Fund proposed	- 3 <sup>rd</sup> RTC Follow up Workshop - Fish stocking at Pak Peung (5,000 fingerlings of silver barb)	
AUG		Inception workshop (regional)	Planning workshop: presentation of joint formulated reservoir management plans (2001-2002)		- Workshop on fish stocking in reservoirs - Demonstration of mobile fish hatchery	Nursing trial in cages at Huay Siet reservoir (10,000 fingerlings of silver barb)	
SEP					3 <sup>rd</sup> RTC in Savannakhet		
OCT				2 <sup>nd</sup> RTC: in Vietnam	Awareness campaign on reservoir management )drawing competition for Naxaithong schools		

	1999	2000	2001	2002	2003	2004	2005
NOV			Workshop on FCZ in reservoirs			<ul style="list-style-type: none"> <li>- Fish stocking in Huay Siet (5,000 fingerlings of silver barb)</li> <li>- HS/PP RFMC study tour to Nam Souang (exchange of experience on reservoir management)</li> </ul>	
DEC				Annual review of reservoir management plans (2002-2003)	<ul style="list-style-type: none"> <li>- Reservoir meetings (plan review)</li> <li>- Cash Flow model presented</li> </ul>	RFMC training and study tour on Fish Processing, Thailand	

## APPENDIX E.2

### Fish Species Identified at Namhoum Reservoir

#### I. Indigenous fish species

No	Local name	Scientific name	Main fishes caught by various fishing gears				Top caught for commercial
			Cast net	Fish hook	Fish trap	Gill net	
1.	Pa Pak	<i>Barbodes gonionotus</i>				√	
2.	Pa Gah	<i>Pristolepis fasciata</i>	-	√	-	√	
3.	Ian	<i>Monopterus albus</i>	-	√	-	-	
4.	Pa Sout Noi	<i>Hampala dispar</i>	-	√	-	√	
5.	Pa Lang Khon	<i>Dangila cuvieri</i>	-	-	-	-	
6.	Pa Dok Giew	<i>Cyclocheilichthys armatus</i>	-	-	-	√	
7.	Pa Do	<i>Channa micropeltes</i>	-	√	-	-	
8.	Pa Khor	<i>Channa striata</i>	-	√	-	√	
9.	Pa Douk	<i>Clarias batrachus</i>	-	√	-	√	
10.	Pa Kheung	<i>Anabas testudineus</i>	-	-	-	√	
11.	Pa Khao Mon	<i>Puntius brevis</i>	√	√	-	√	
12.	Pa Kadert	<i>Trichogaster trichopterus</i>	-	-	-	-	
13.	Pa Tong	<i>Notopterus notopterus</i>	-	√	-	√	
14.	Pa Kot	<i>Mystus nemurus</i>	-	√	√	√	
15.	Pa Pok	<i>Systemus orphoides</i>	-	-	-	-	
16.	Pa Khap Khong	<i>Pseudambassis notatus</i>	-	-	-	-	
17.	Pa Lot	<i>Macrognathus siamensis</i>	-	-	-	-	

## II. Exotic fish species

No	Local name	Scientific name					Top Caught
1.	Pa Hoa Yai	<i>Aristichthys nobilis</i>	-	-	-	√	√
2.	Pa Ketlab	<i>Hypophthalmichthys molitrix</i>	-	-	-	√	√
3.	Pa mrigal	<i>Cirrhinus mrigala</i>	-	-	-	√	√
4.	Pa Nin	<i>Oreochromis niloticus</i>	-	-	-	√	√
5.	Pa Nai	<i>Cyprinus carpio</i>	-	-	-	√	√
6.	Pa Rohu	<i>Labeo rohita</i>	-	-	-	√	
7.	Pa Kin Ya	<i>Ctenopharygodon idella</i>	-	-	-	√	

Source: LARReC 2005



## BIOGRAPHY

Bangone Santavasy was born in Vientiane, Lao PDR in 1975. She received B.B.A in Business Management from Comcenter College, Vientiane, Lao PDR in 2003. She worked in the United Nations Children's Fund (UNICEF) for five years. Recently she involved in the Child Survival Development Section/UNICEF as a Senior Programme Assistant before taking the fellowship of Weaving the Mekong into Southeast Asian Studies Programme, granted by the Rockefeller Foundation. She is now working toward the M.A in Southeast Asian Studies, Faculty of Arts, at Chulalongkorn University, Thailand. Her research area is the Impacts of Mekong River Commission's Fisheries Programme on Sustainable Development in Angnamhoum and Hoinamyen Villages, Vientiane, Lao PDR.