



*Sustaining and Enhancing the Momentum for Innovation and Learning around  
the System of Rice Intensification (SRI) in the Lower Mekong Basin River (SRI - LMB)*

# Farmer's Participatory Action Research in **Cambodia** Wet Season 2017



Organized by National IPM Programme of General Directorate of Agriculture (GDA), Ministry of Agriculture, Forestry and Fisheries (MAFF), Cambodia in partnership with ACISAI Center AIT Thailand Food and Agriculture Organization (FAO) and Oxfam



*This project is funded by the  
European Union*



*A project implemented by the  
Asian Institute of Technology*

# **REPORT – Training Activity on Chicken Raising in Cambodia (July – December 2017)**

**Submitted by:**

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## ABOUT THE PROJECT

**SRI-LMB**, an EU-financed regional project, is contributing towards enhancing the resilience of rainfed farmers confronting climate change in the Lower Mekong River Basin (LMB) region. The purpose of the project is to increase crop productivity and profitability on sustainable basis at smallholder farmers' field, primarily in rainfed areas of LMB. The project through its action aims to address the food security and livelihood issue of smallholder farmers by developing adaptive measure against climate change. The Action is being implemented in four LMB countries: Cambodia, Laos, Vietnam and Thailand and the total period for implementation is 60 months (2013-2017).

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## ACRONYMS

ACISAI	Asian Centre of Innovation for Sustainable Agriculture Intensification
AIT	Asian Institute of Technology
CFPAR	Central Farmers' Participatory Action Research
CSOs	Civil Society Organizations
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
FFS	Farmer's Field School
FPAR	Farmers' Participatory Action Research
FT	Farmer's Trainer
g	Gram
GDA	General Directorate of Agriculture
Ha	Hectare
IPM	Integrated Pest Management
Kg	Kilogram
LMB	Lower-Mekong Basin
M&E	Monitoring and Evaluation
MEI	Monitoring Evaluation and Innovation
MEL	Monitoring Evaluation and Learning
MAFF	Ministry of Agriculture Forestry and Fisheries
NGOs	Non-Governmental Organizations
OA	Oxfam America
PCU	Project Coordination Unit of SRI LMB
PMU	Project Management Unit of SRI LMB
SRI	System of Rice Intensification
SRI-LMB	System of Rice Intensification in the Lower Mekong River Basin



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### List of related web links

**SRI-LMB Cambodia:**<http://www.sri-lmb.ait.asia/country/Cambodia.php>

**Reports:** <http://www.sri-lmb.ait.asia/country/Cambodia.php#reports>

**Photos:**<http://www.sri-lmb.ait.asia/country/Cambodia.php#photo>



## 1. BACKGROUND

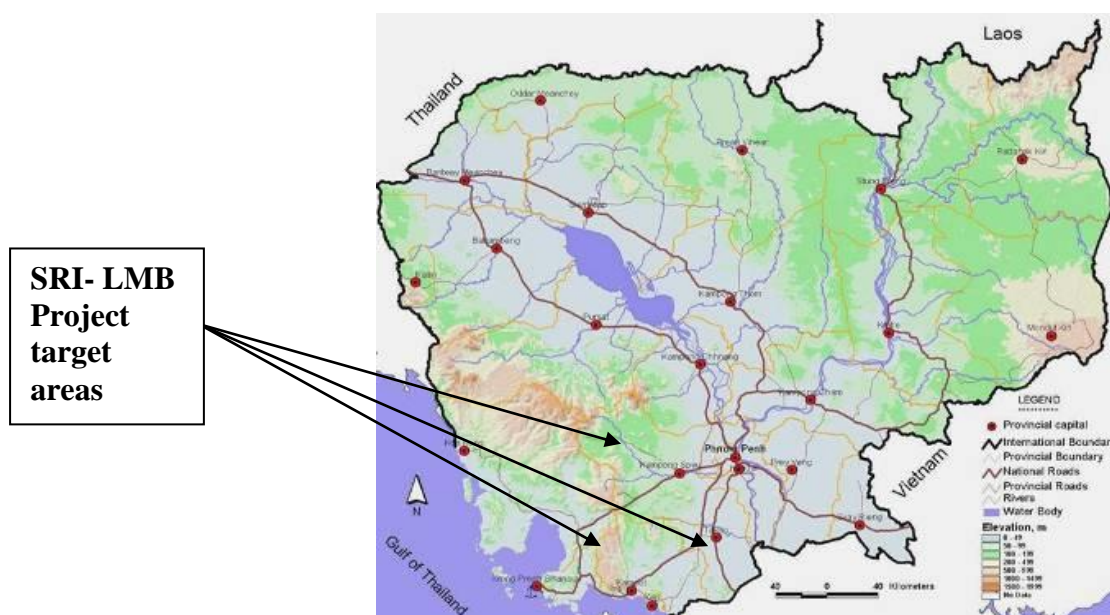
The AIT ([www.ait.asia](http://www.ait.asia)) has begun an EU-financed project entitled: “Sustaining and Enhancing the Momentum for Innovation and Learning around the System of Rice Intensification (SRI) in the Lower Mekong River Basin” (<http://www.ait.ac.th/news-and-events/2012/news/ait-signs-agreement-with-eu-for-3-4-million-euro-project>). The main objective of the project is to contribute to enhanced resilience of rainfed rice farming systems involving small-scale farmers confronting climate change in the Lower Mekong region. The project implementation period is for 60 months with a total cost of approximately 3.4 million Euros. In the plan of project design, there is an activity to improve income generation of the women and landless farmers groups. The proposed action aims to improve the income of small-scale, vulnerable landless, land-poor and women farmers through intervention of non-land based knowledge, skills and capital to enable them to make more profit for their families. During LMU reflection and planning workshop in 2016, all PDAFF gave priority to training on chicken raising since it has been done by many farmers in the community and yet, faces many problems. In the wet season of 2017, 10 farmer trainings on chicken raising were conducted for some of the targeted communes.

## 2. PRIORITIZED LIST OF PROBLEMS

### Summary of prioritized issues in 3 provinces

- The technical knowledge of farmers on small-scale chicken raising is still limited.
- Farmers use their own local breed from generation to generation without changing, selecting and changing.
- High rate of chicken death is commonly in the community.
- There were no measures to control chicken sickness or disease outbreaks.
- Farmers do not care about additional feeding and its nutrition.
- There was not proper chicken house usage and cleaning.
- Vaccination was not usually used for poultry production in community.

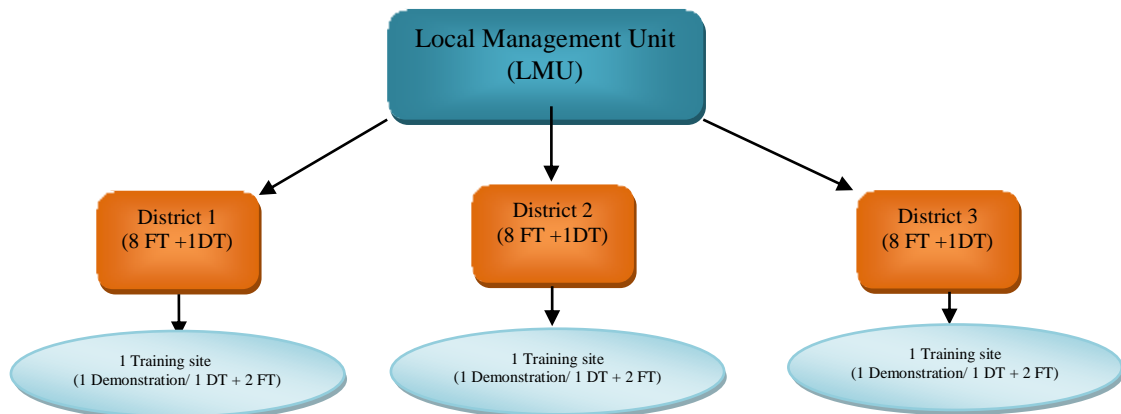
## 3. GEOGRAPHICAL LOCATIONS







#### 4. SCHEMATIC DIAGRAM OF PROJECT STRUCTURE AT PROVINCIAL LEVEL



Note: FT = Farmer Trainer; DT = District Trainer

#### 5. OBJECTIVES OF TRAINING

The training on chicken raising activities was set-up with the following objectives:

- To improve income generation and liveof women and landless farmer groups through small-scale chicken raising.
- To build up capacity and skills of farmers in chicken raising and be able to solve facing problems in their communities.



## 6. DATES, LOCATIONS AND SCHEDULE

Table 1: Summary of field demonstration in target provinces

Period	Village/ commune/ District/ Province	Training topics
July-December 2017	Tropaing Sla/ Samlanh/ Angkor Chey/ Kampot	Chicken raising
July-December 2017	Pror Srer/ Samlanh/ Angkor Chey/ Kampot	Chicken raising
July-December 2017	Rovieng/ Trpaing Raing/ Chumkiri/ Kampot	Chicken raising
July-December 2017	Veal Thbal/ Meanchey/ Chhouk/ Kampot	Chicken raising
July-December 2017	Prohout/ Kraing Leav/ Bati/ Takeo	Chicken raising
July-December 2017	Bak Kod/ Leay Bo/ Tramkak/ Takeo	Chicken raising
July-December 2017	Tropaing Svay/ Khdanh/ Prey Kabas/ Takeo	Chicken raising
July-December 2017	Svay Cha/ Prey Nheat/ Korng Pisey/ Kampong Speu	Chicken raising
July-December 2017	Prey Veav/ Tham Ta Or/ Samrong Torng/ Kampong Speu	Chicken raising
July-December 2017	Tropaing Khyoang/ Nitean/ Borseth/ Kampong Speu	Chicken raising

## 7. FARMER FIELD SCHOOL

Based on the agreed points during the provincial workshop in wet season 2016, the SRI-LMB Project supported 10 Farmer Trainings on Chicken Raising at each demonstration site. Each training was run by one DT and two FT by using FFS approaches. . Technical official from PDAFF was invited for special topics, especially activities related to vaccination. During each FFS, the theory and practical measures were combined for training. Participants were allowed to practice what they learned in the training, which they also applied at their houses. Since all participants were poor, project provided initial capital for starting chicken raising activity. It provided contribution for chicken house construction; each participant was also provided 2 hens, 1 cock, and 15 chicks for raising simultaneously with FFS. Before FFS started, a short survey about technical information related to small-scale chicken raising was conducted. Participants were interviewed for their knowledge on issues such as location selection for building chicken house, construction technique, chicken breed selection, cleaning of feeding materials, chick management, nest preparation, natural additional feed preparation, chicken maintenance, chicken disease management, sanitation and prophylaxis methodologies, vaccination and treatment, market demand and planning for chicken raising.

## 8. TRAINING OUTPUT

There were totally 150 (92 women) participants who attended FFS on chicken raising. Since budget was limited, only 15 participants per FFS were allowed. Throughout the training course, farmers learnt a lot, especially the discussion on special topics related to the common practices and problems encountered in their community. After training, it was found that farmers were very interested in this subject. Based on the survey made by PMU team, it was found that knowledge and skills of participants increased and they will adopt them in their chicken production. Based on 10 demonstrations as part of FFS, it was shown that with better management practices, chicken grow faster with lower death rate and higher profit than the conventional practices. However, it was also



found that with the former, the expense for feed, time requirement and other basic needs for chicken raising is higher.

## **9. KEY LESSONS LEARNT**

Through the successful training, some of the lessons learnt in 2017 are as following:

- The quality of the training depends on the facilitation skills and technical knowledge of farmer trainers and district trainers.
- The success of field demonstration depends on the site selection, the activeness of cooperating farmers, and trainer involvement.
- Having clear information on the local problems and common practices of farmers contributes to better field demonstrations on the solutions to solve problems of farmers.
- Farmers actively participate if their problems are considered for finding out the possible solutions.
- Frequent monitoring by PMU and LMU officers contributes very much in improving quality of the training.

## **10. PROPOSED TOPICS FOR FUTURE TRAINING**

At the end of the training, facilitators asked participants about what topics they want to learn more for the next season. In general, topics they want to learn more are as following.

- They want to learn more on the details of chicken diseases and control method.
- They want to have good chicken varieties that give high yield, short duration, and tolerant of chicken diseases.
- They want to learn more on how to manage chicken effectively and economically.



## Training Activity on Chicken Raising, Cambodia

**Table 2: Chicken raising training in Kampot province:**

Sl.	Village/ commune/ district	Description	Name of FTs / DTs	No. of session conducted	No. of farmers' participated	Rankers, if any
1	Tropaing Sla/ Samlanh/ Angkor Chey	July- December 2017	Mr. Tonh An, Mr. Ruot Nimit, Mr. Ouch Ol	10	15/ 15 women	
2	Prosrer/ Samlanh/ Angkor Chey	July- December 2017	Mr. Tonh An, Mr. Ruot Nimit, Mr. Ouch Ol	10	15/ 14 women	
3	Veal Thbal/ Meanchey/ Chhouk	July- December 2017	Mr. Pen Kosal, Mr. Sok Saran, Mr. Chun Vuthy	10	15/ 14 women	
4	Rovieng/ Tropaing Raing/ Chumkiri	July- December 2017	Mr. Nget Kath, Mr. Sem Sambat	10	15/ 8 women	

**Table 3: Chicken raising training in Takeo province:**

Sl.	Village/ commune/ district	Description	Name of FTs / DTs	No. of session conducted	No. of farmers' participated	Rankers, if any
1	Bak Kod/ Leay Bo/ Tramkak	July- December 2017	Mr. Sok Ravuth, Mr. Long Yan, Mr. Sok Mom	10	15/ 6 women	
2	Tropaing Svay/ Kdanh/ Prey Kabas	July- December 2017	Mr. Hun Borin, Mr. Ouk Sokha	10	15/ 7 women	
3	Prohout/ Kraing Leav/ Bati	July- December 2017	Ms. Ker Rem, Mr. Hin Piseth	10	15/ 10 women	

**Table 4: Chicken raising training in Kampong Speu province:**

Sl.	Village/ commune/ district	Description	Name of FTs / DTs	No. of session conducted	No. of farmers' participated	Rankers, if any
1	Svay Cha/ Prey Nheat/ Korng Pisey	July- December 2017	Mr. Chea Rotha, Mrs. Phoung Savan, Mrs. Prum Sorya	10	15/ 0 women	
2	Tropaing Khyoang/ Nitean/ Borseth	July- December 2016	Mr. Dy Sen Kosal, Mr. Kol Phally, Mr. Sok Touch	10	15/ 12 women	
3	Prey Veav/ Tham Ta Or/ Samrong Torng	July- December 2017	Mr. Svay Sarun, Mr. Heng Heu, Mr. Tea Tho	10	15/ 6 women	



## Training Activity on Chicken Raising, Cambodia

**Table 5: Economic analysis of Chicken raising training in Kampot province:**

SL.	Province	District	Commune	FFS Village	Experiment	Field Demonstration			Farmer Practice		
						Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)	Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)
1	Kampot	Angkor Chey	Samlanh	Tropaing Sla	Chicken raising	28	119	37.7	15	63.75	13.15
2	Kampot	Angkor Chey	Samlanh	Pror Srer	Chicken raising	24	102	20.25	15	63.75	13.15
3	Kampot	Chhouk	Meanchey	Veal Thbal	Chicken raising	24	108	25.5	15	67.5	8.5
4	Kampot	Chumkiri	Tropaing Raing	Rovieng	Chicken raising	30	135	30.5	15	67.5	15

**Table 6: Economic analysis of Chicken raising training in Takeo province:**

SL.	Province	District	Commune	FFS Village	Experiment	Field Demonstration			Farmer Practice		
						Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)	Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)
1	Takeo	Prey Kabas	Khdanh	Tropaing Svay	Chicken raising	24	102	23.5	12	51	9.75
2	Takeo	Bati	Kraing Leav	Prasat	Chicken raising	22.5	90	22.5	15	60	11.25
3	Takeo	Tramak	Leay Bo	Bak Kod	Chicken raising	27	108	21	15	60	11.25

**Table 7: Economic analysis of Chicken raising training in Kampong Speu province:**

SL.	Province	District	Commune	FFS Village	Experiment	Field Demonstration			Farmer Practice		
						Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)	Chicken product (kg/ 15 chickens)	Income (US\$/ 15 chickens)	Net Return (US\$/ 15 chickens)
1	Kampong Speu	Kong Pisey	PreyNheat	Svay Cha	Chicken raising	30	120	37	16.5	66	14.75
2	Kampong Speu	Samrong Torng	Tham Ta Or	Prey Veav	Chicken raising	25.5	102	9.9	13.5	54	2.75
3	Kampong Speu	Borseth	Nitean	Tropaing Kyoang	Chicken raising	26	109	19.5	17	68	11.25

## Annexes

### Annex 1 : List of Farmer's Trainers and Farmers attended in the Training on Chicken raising activities in wet season 2017

#### 1.1 Kampong Speu Province

##### Chicken raising training

SL.	FTs	Name Farmers	Sex (M or F)	Age	Village/ Commune/ District
1	Mr. Chea Rotha	Nget Thy	M	49	Svay Cha/ Prey Nheat/ Korng Pisey
2	Ms. Phuong Savan	Yung Pov	M	41	-
3	Ms. Prum Sorya	Nget Chhorn	M	51	-
4		Uk Chan	M	33	-
5		Chhit Sophea	M	23	-
6		Siek Narin	M	34	-
7		Chhign Chanthy	M	35	-
8		Horm Nit	M	50	-
9		Men Chanrin	M	39	-
10		Min Manit	M	21	-
11		Chheang Chek	M	58	-
12		Chhign Chanthol	M	38	-
13		Penh Sam At	M	50	-
14		Pum Saroeun	M	45	-
15		Keo Sam Ol	M	27	-
16	Mr. Dy Sen Kosal	Bo Rem	M	38	Tropaing Khyoang/ Nitean/ Borseth
17	Mr. Kol Phally	Seng Pet	F	37	-
18	Mr. Sok Touch	Lach Mom	F	48	-
19		Sam Chhan	F	55	-
20		Touch Thuy	M	42	-
21		Kem Kheun	F	55	-
22		Phay Chan	M	28	-
23		Ev Sokhim	F	26	-
24		Yang Ten	F	43	-
25		Phor Savoeun	F	53	-
26		Bo Sam Oeun	F	50	-
27		Pov Phol	F	55	-
28		Chou Horn	F	50	-
29		Chea Phors	F	55	-
30		Him Sav	F	43	-
31	Mr. Svay Sarun	Hay Hoeung	M	57	Prey Veav/ Tham Ta Or/ Samrong Torng
32	Mr. Heng Heu	Im Dy	M	38	-
33	Mr. Tea Tho	Im Doeun	M	41	-
34		Vang Savut	M	35	-
35		Hem Chan	M	57	-
36		Chhour Saly	M	32	-



37	Pov Khoeun	F	60	-
38	Im Nam	F	53	-
39	Um Na	F	57	-
40	Khiev Song	M	52	-
41	Un Lim	M	48	-
42	Siv Sarom	F	38	-
43	Lach Thea	M	26	-
44	Yim Yoeun	F	41	-
45	Im Vy	F	51	-
<b>Sub total: 45 Farmers (18 women) participated in 3 trainings on chicken raising activities in Kampong Speu province.</b>				

## 1.2 Kampot

### A- FPAR

SL.	FTs	Name Farmers	Sex (M or F)	Age	Village/ Commune/ District
1	Mr. Tonh An	Chum Sophal	F	37	Trpaing Sla/ Samlanh/ Angkor Chey
2	Mr. Ouch Ol	Et Phalla	F	40	-
3	Mr. Rout Nimith	Ouch Sophal	F	37	-
4		Vet Samoeun	F	36	-
5		Eng Nheb	F	50	-
6		Eng Touch	F	41	-
7		Set Sarun	F	32	-
8		Nget Phalla	F	32	-
9		Cheal Srey Mom	F	36	-
10		Duong Chenda	F	31	-
11		Thim Srey Leak	F	28	-
12		Et Samorn	F	52	-
13		Chim Yan	F	52	-
14		Ut Vanny	F	42	-
15		Ing Neav	F	31	-
16	Mr. Tonh An	Nheb Kei	M		Prosrer/ Samlanh/ Angkor Chey
17	Mr. Ouch Ol	Chea Yev	F		-
18	Mr. Rout Nimith	Chhuon Bunchhang	F		-
19		Im Seb	F		-
20		Sear Channa	F		-
21		Sear Srey Mom	F		-
22		Chea Sarim	F		-
23		Pon Sokhom	F		-
24		Ouch Sary	F		-
25		Duong Chreb	F		-
26		Sear Phalla	F		-



27		Sear Chanthoeun	F	-
28		Sok leng	F	-
29		Chea Sokea	F	-
30		So Hon	F	-
31	Mr. Pen Kosal	Pum Pros	M	Veal Thbal/ Meanchey/ Chhouk
32	Mr. Sok Saran	Phin Rotha	F	-
33	Mr. Chun Sothy	Seng Phalla	F	-
34		Nhean Sitha	F	-
35		Dok Touch	F	-
36		Mey Srey	F	-
37		Mey Sameu	F	-
38		Chab Ouch	F	-
39		Kil Srey Pov	F	-
40		Heng Sokha	F	-
41		Srey Seng	F	-
42		Mak Savorn	F	-
43		Prach Savoeun	F	-
44		Prak Savoeun	F	-
45		Prak Koeun	F	-
46	Mr. Nget Kat	Yan Vannan	F	Rovieng/ Tropaing Raing/ Chumkiri
47	Mr. Sem Sambath	Pho Sarin	M	
48		Phat Sao	M	
49		Phat Chea	M	
50		Nget Sim	F	
51		Duong Phat	F	
52		Duong Nhey	F	
53		Ry Touch	F	
54		Khiev Oeun	M	
55		Phen Sab	M	
56		Nget Ngem	M	
57		Duong Dina	F	
58		Yos Thavy	F	
59		Smach Thy	M	
60		Iem Thai	F	

Sub total: 60 Farmers (51 women) participated in 3 Trainings on Chicken Raising activities in Kampong Speu province.

### 1.3 Takeo province

#### Chicken raising training

SL.	FTs	Name Farmers	Sex (M or F)	Age	Village/ Commune/ District
1	Sok Ravuth	Kheng Sokhan	F	32	Bakkod/ Leay Bo/ Tramkak
2	Long Yan	Ven Samoeun	F	37	-
3	Sok Mom	Sok Chhoeun	F	47	-



Training Activity on Chicken Raising, Cambodia



4		Kol Moeun	M	50	-
5		Kheng Sok	M	39	-
6		So Mom	F	49	-
7		Kheng Sokchea	M	24	-
8		In Sarat	F	40	-
9		Hang Ny	F	35	-
10		Ou Saroeun	M	51	-
11		So Uy	M	30	-
12		Prak Touch	M	52	-
13		Pov Chan Samvat	M	55	-
14		Ven My	M	30	-
15		Klaing Oeun	M	56	-
16	Ker Rem	Phok La	F	64	Pror Hou/ Kraing Leav/ Bati
17	Hin Piseth	Chea Mot	M	38	
18		Neat Neang	M	33	
19		Keo Samruon	F	37	
20		Sam Srors	M	25	
21		Tot Sat	F	22	
22		So Sruoy	F	61	
23		Uy Roeun	F	51	
24		Chum Chin	F	59	
25		Loch Ret	F	53	
26		Sok Nget	F	42	
27		Sok Heng	F	55	
28		On Sang	M	35	
29		Roeung Sem	M	35	
30		Suos Sophat	F	51	
31	Hun Borin	Tiev Sarun	M	39	Tropaing Svay/ Khdanh/ Prey Kabas
32	Ouk Sokha	Chhoeng Savuth	M	39	
33		Nop Dara	M	36	
34		Ngoun Virak	M	35	
35		Hun Narin	M	36	
36		Bou Born	F	42	
37		Srey Kim Eng	F	38	
38		Mach Chan Thol	F	35	
39		Nhem Kakly	M	35	
40		Nhey Nhorn	M	39	
41		Maing Thy	F	35	
42		Thuch Srey Mom	F	47	
43		Uy Phal	M	46	
44		Nuon Channak	F	37	
45		Hy Sarem	F	39	

**Sub total: 45 Farmers (23 women) participated in 3 Trainings on Chicken Raising activities in Takeo province.**



**Annex 2: Training Curricula used in the training on chicken raising activities**

Session	Topics and activities	Responsible person
1	<ul style="list-style-type: none"> <li>- Communicate with Local authority</li> <li>- Select farmers</li> <li>- Select FFS site</li> <li>- Select farmer for field Demonstration</li> <li>- Discuss about the objective of the training</li> </ul>	LMU and DT
2	<ul style="list-style-type: none"> <li>- Introduction of small holder chicken production</li> <li>- Discuss the market demand of chicken and planning for chicken raising.</li> <li>- Discuss chicken house construction</li> </ul>	LMU and DT
3	<ul style="list-style-type: none"> <li>- Discuss chicken breed selection</li> <li>- Discuss taking care of chick</li> <li>- Discuss record keeping</li> <li>- Follow up the chicken house construction (Afternoon time)</li> </ul>	LMU and DT
4	<ul style="list-style-type: none"> <li>- Discuss about chicken diseases including preventive and treatment measures</li> <li>- Discuss about vaccination and practices for demo</li> <li>- Practice vaccination at individual participants (Afternoon)</li> </ul>	LMU and DT
5	<ul style="list-style-type: none"> <li>- Discuss the additional feed formulation and feeding</li> <li>- Discuss natural feed collection ( earth worm culturing, termite, insect trapping)</li> <li>- Practice earth worm, termites culturing, insect trapping at individual participants 'houses</li> </ul>	LMU and DT
6	<ul style="list-style-type: none"> <li>- Discuss about sanitation ( cleaning chicken house and feeding materials)</li> <li>- Discuss the natural medicine for preventive diseases</li> <li>- Follow up the implementation of insect trapping, earth worm and termite culturing at all participants (afternoon time)</li> </ul>	LMU and DT
7	<ul style="list-style-type: none"> <li>- Discuss chicken hatching methodologies and nest preparation</li> <li>- Discuss how to take care of chicks after hatching</li> <li>- Follow up the implementation of all participants (afternoon time)</li> </ul>	LMU and DT
8	<ul style="list-style-type: none"> <li>- Discuss problems occurring at participants' house and intervention</li> </ul>	LMU and DT
9	<ul style="list-style-type: none"> <li>- Discuss problems occurring at participants' house and intervention</li> </ul>	LMU and DT
10	<ul style="list-style-type: none"> <li>- Discuss problems occurring at participants' house and intervention.</li> <li>- Economic analysis and field day</li> </ul>	LMU and DT