

**Implementation of the Agricultural Extension Activity Plan
In NRI and NRI-AF subproject areas**

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1. Introduction

The Agricultural Extension Activity aims at promotion of sustainable rice and other commercial crops production in irrigated area after completion of irrigation system rehabilitation that will fully support supplying water to the production area in both wet and dry season. The plan has been developed from the farmers' proposal in the Village Consultation Meetings at the beneficiary villages. This is the main activities for capacity building of PPO/DCOs and for strengthening of WUG and FPG members in order to understand the agricultural production techniques in irrigated area including increasing rice yield, new crop growing techniques, introduction of improved rice varieties with high yield, and improved quality controls in the pre-harvest, harvest and post-harvest stages.

2. Objective

The main objective of the Agricultural Extension Activity Plan for the subprojects of NRI-AF Project is to assemble the agricultural activities supported by project that PPO/DCOs can use to help and promote farmers for rice and commercial crop production in irrigated area focusing on the increase of rice yield from 3 tons/ha to 5 tons/ha, and farmer skills and knowledge in the commercial production process according to the needs of market.

3. Implementation of Agricultural Extension Activity Plan

In implementing the plan, the first stage is the capacity building of the skills of PPO/DCOs staffs on agricultural development in irrigated area. The Agricultural Extension Team of Grant Implementation Consultants (GIC) has trained the PPO/DCO staffs as trainers to train the farmers.

The second stage is the implementation of agricultural extension activities by PPO/DCOs through technical demonstration, on-the-job training (OJT), organizing the farmer experience exchange, farmer study tour and help farmers in preparation of contract farming between farmers and investors/buyers.

4. Training PAFO and DAFO Extension Worker on FPG, CF and O&M Implementation

The Agricultural Extension Team of GIC supports the training of staffs of PAFO and DAFO in order to develop farmer skills and knowledge for agricultural production in irrigated area in the form of OJT for PPO and DCOs on Farmer Production Group (FPG) establishment under WUG/WUGA, Contract Farming, O&M implementation, Following-up, evaluation and demonstration of rice seed multiplication by using SRI method.

5. Farmer Strengthening by PPO/DCO

The capacity building for farmers conducted by agricultural extension workers of PPO/DCO is one of the important interventions to increase farm production.

5.1 Demonstration of Rice Seed Multiplication by SRI

The Demonstration of Rice Seed Multiplication will conduct 5-10 plots/Farmer Cooperators (FCs) per subproject and 1 plot has the demonstration area of 1,000 – 1,600 m². The demonstration will implement

in 2 crop seasons per subproject decided by PPO/DCOs together with the selected farmers such as 2 wet seasons or 2 dry seasons or 1 wet and 1 dry season, detailed plan of implementation in each province see in Table 1 to Table 4.

The selection of farmers is conducted before the beginning of first season and he/she will do again in second season. The selected farmers or farmer cooperators (FCs) will receive the training about the demonstration implementation by PPO/DCOs.

PPO/DCOs follow up to observe, monitor and advice the demonstration implementation in each week.

Protocol of Rice Seed Demonstration by SRI is very important for FCs to follow each rice development stage until to the end of season. PPO/DCOs will summarize the noted data and write the draft report to Agricultural Extension Team at the head Office.

5.2 Farmer Training

Farmer training in the agricultural extension activity of NRI–AF project is OJT method, especially using rice and crop production planning, management, follow up and evaluation.

5.3 Contract Farming and Supporting FPGs

The contract farming in the context of NRI-AF project as agricultural production is further encouraged/ promoted according to an agreement between potential buyers and farmers. The potential benefits of contract farming are to help Farmer Production Groups (FPGs) in i) access to market, credit, technology & skills development, and inputs, ii) increase income, and iii) reduce price risks and production risks. The contract farming implementation between benefit farmers and buyers/ investors is assisted by PPO/DCO/DICO, particularly in the preparation, implementation, follow up and evaluation of the contracts.

5.4 Study Tour, Field Visit and Experience Exchange

The study tour organized by NRI-AF project for farmers is to increase farmer knowledge and skills through experience exchange about crop and rice production techniques, with benefit farmers who have more experience about the production in irrigated area. Farmers of each subproject participated in this tour will be involved the experience exchange, talking about rice and crop production, maintenance, post-harvest, processing and marketing. The study tour will conduct one (1) time in each subproject.

5.5 Regular Monitoring of WUG Production of NRI Year 1,2 and 3 Subprojects

The DCO staff (Irrigation and Agriculture) implement the regular monitoring of the WUG production for every crop season.

Table 1 Plan for Agricultural Extension Activities, Oudomxay Province

Plan for PPO/DCO Extension Worker Strengthening and Agricultural Extension Activities of Phase I, II and III subprojects in 2018 - 2022, NRI-AF, Oudomxay province											
No.	Projects/ Activities	Implementing time	No. of Target persons	2018- 2019		2019- 2020		2020- 2021		2021- 2022	
				WS 18	DS 18/19	WS 19	DS 19/20	WS 20	DS 20/21	WS 21	DS 21/22
1	PAFO and DAFO extension worker strengthening										
1/	On The Job Training for PPO and DCOs on Farmer Production Group Establishment under WUG/WUGA , Contract Farming, O&M implementation, Follow up and Evaluation	1 Time	10-15 (NPMO, PPO,DCOs)	WS	DS						
2/	On The Job training for PPO/DCOs about the Demonstration for Rice Seed Multiplication by using SRI method.	1 Time	10-15 (NPMO, PPO,DCOs)	WS	DS						
3/	Field cross visit and experience exchange	4 Times (2 times/season)	10-15 (PPO, DCOs)	WS	DS						
4/	Study tour	1 Time	10-15 (NPMO, PPO,DCOs)				DS				DS
2	Farmer strengthening by PPO/DCO (demonstration, farmer training, farmer study tour, field visit)										
2.1	Nam Oun, Houn district, Oudomxay province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs	WS	DS	WS					
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5-10 FCs +40 Farmers	WS	DS	WS					
3/	Contract farming implementation	1 time/subproject	70 farmers		DS			DS			
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS	DS	WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS	DS	WS					
2.2	Nam Beng, Beng district, Oudomxay province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs	WS	DS	WS					
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5-10 FCs +40 Farmers	WS	DS	WS					
3/	Contract farming implementation	1 time/subproject	70 farmers		DS			DS			
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS	DS	WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS	DS	WS	DS				
2.3	Nam Hao, Beng district, Oudomxay province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs	WS	DS	WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5-10 FCs +40 Farmers	WS	DS	WS					
3/	Contract farming implementation	1 time/subproject	70 farmers				DS				
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS	DS	WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers								DS
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS	DS	WS	DS				
2.4	Nam Ngaad, Houn district, Oudomxay province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs		DS	WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5-10 FCs +40 Farmers		DS	WS		WS			
3/	Contract farming implementation	1 time/subproject	70 farmers				DS				
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers		DS	WS		WS			
5/	Farmer Study Tour	1 time/subproject	30-50 farmers								DS
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO		DS	WS	DS	WS			
Remarks:											
1) Irrigation construction Rice - 2 crop seasons (2 wet seasons or 2 dry seasons or 1 wet + 1 dry season) WS - Wet season, DS - Dry season, FPG - Farmer Production Group, FC - Farmer Cooperator											

Table 2 Plan for Agricultural Extension Activities, Phongsaly Province

Plan for PPO/DCO Extension Worker Strengthening and Agricultural Extension Activities of Phase II, III and IV subprojects in 2018 - 2022, NRI-AF,

No.	Projects/ Activities	Implementing time	No. of Target persons	2018- 2019		2019- 2020		2020- 2021		2021- 2022	
				WS 18	DS 18/19 ¹⁾	WS 19	DS 19/20	WS 20	DS 20/21	WS 21	DS 21/22
1	PAFO and DAFO extension worker strengthening										
1/	On The Job Training for PPO and DCOs on Farmer Production Group Establishment under WUG/WUGA , Contract Farming, O&M implementation, Follow up and Evaluation	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS	DS		DS		DS
2/	On The Job training for PPO/DCOs about the Demonstration for Rice Seed Multiplication by using SRI method.	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS		WS		WS	
3/	Field cross visit and experience exchange	4 Times (2 times/season)	10-15 (PPO, DCOs)	WS		WS					
4/	Study tour	1 Time	10-15 (NPMO, PPO,DCOs)				DS				DS
2	Farmer strengthening by PPO/DCO (demonstration, farmer training, farmer study tour, field visit)										
2.1	Nam Tong subproject, Nhot Ou district, Phongsaly province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs	WS		WS					
2/	Farmer Training on Production and O&M planning, Implementation , Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5 -10FCs +40 Farmers	WS		WS					
3/	Contract farming implementation	1 time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS		WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multi demo by SRI, Contract farming , O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS					
2.2	Nam Ngeue 2 subproject, Bountai district, Phongsaly province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5 FCs	WS		WS					
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times/season)	5 FCs +40 Farmers	WS		WS					
3/	Contract farming implementation	2 Times	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS		WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multi demo by SRI, Contract farming , O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS					
2.3	Nam Hoy Nam Lou subproject, Bouneua district, Phongsaly province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5 FCs			WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers			WS		WS			
3/	Contract farming implementation	1 time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers			WS		WS			
5/	Farmer Study Tour	1 time/subproject	30-50 farmers								DS
6/	Follow up (rice seed multi demo by SRI, Contract farming , O&M implementation)	2 seasons	NPMO, PPO, DCO			WS		WS			DS
2.4	Dongnouark subproject, Nhot Ou district, Phongsaly province										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5 FCs					WS		WS	
2/	Farmer Training on Production and O&M planning/Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers					WS		WS	
3/	Contract farming implementation	1 time/subproject	70 farmers								DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers					WS		WS	
5/	Farmer Study Tour	1 time/subproject	30-50 farmers								DS
6/	Follow up (rice seed multi demo by SRI, Contract farming , O&M implementation)	2 seasons	NPMO, PPO, DCO					WS		WS	DS
2.5	Nam Ngay-Nam Boun subproject, Bouneua district, Phongsaly prov.										
	Demonstration for rice seed multiplication by using SRI method	2WS	5 FCs					WS		WS	
2.6	Houay Lap subproject, Bountai district, Phongsaly prov.										
1/	Demonstration for rice seed multiplication by using SRI method	2 WS	5 FCs					WS		WS	
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers					WS		WS	
3/	Contract farming implementation	1 time/subproject	70 farmers								DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers					WS		WS	
5/	Farmer Study Tour	1 time/subproject	30-50 farmers								DS
6/	Follow up (rice seed multi demo by SRI, Contract farming , O&M implementation)	2 seasons	NPMO, PPO, DCO					WS		WS	DS
Remarks:											
1) Irrigation construction											
Rice - 2 crop seasons (2 wet seasons or 2 dry seasons or 1 wet + 1 dry season)											
WS - Wet season, DS - Dry season, FPG - Farmer Production Group, FC - Farmer Cooperator											

Table 3 Plan for Agricultural Extension Activities, Luangnamtha Province

Plan for PPO/DCO Extension Worker Strengthening and Agricultural Extension Activities of Phase II, III and IV subprojects in 2018 - 2022, NRI-AF											
Luangnamtha province											
No.	Projects/ Activities	Implementing time	No. of Target persons	2018- 2019		2019- 2020		2020- 2021		2021- 2022	
				WS 18	DS 18/19 ¹⁾	WS 19	DS 19/20	WS 20	DS 20/21	WS 21	DS 21/22
1 PAFO and DAFO extension worker strengthening											
1/	On The Job Training for PPO and DCOs on Farmer Production Group Establishment under WUG/WUGA , Contract Farming, O&M implementation, Follow up and Evaluation	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS					
2/	On The Job training for PPO/DCOs about the Demonstration for Rice Seed Multiplication by using SRI method.	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS					
3/	Field cross visit and experience exchange	4 Times (2 times/season)	10-15 (PPO, DCOs)	WS		WS					
4/	Study tour	1 Time	10-15 (NPMO, PPO,DCOs)				DS				DS
2 Farmer strengthening by PPO/DCO (demonstration, farmer training, farmer study tour, field visit)											
2.1 Nam Sa subproject, Long district, Luangnamtha province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs	WS				WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 time/season)	5-10 FCs +40 Farmers	WS				WS			
3/	Contract farming implementation	1time/subproject	70 farmers				DS				
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS				WS			
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS				WS			DS
2.2 Nam Lue-NamChang subproject, Luangnamtha district, Luangnamtha province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5 FCs	WS		WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers	WS		WS					
3/	Contract farming implementation	1time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times/season)	120 Farmers	WS		WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS					DS
2.3 Nam Ma subproject, Long district, Luangnamtha province											
1/	Demonstration for rice seed multiplication by using SRI method	2WS	5 FCs	WS		WS				WS	
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers	WS		WS				WS	
3/	Contract farming implementation	1time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers	WS		WS				WS	
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS				WS	DS
2.4 Nam Gna 2 subproject, Luangnamtha district, Luangnamtha province											
2.5 Nam Tha 3 subproject, Luangnamtha district											
2.6 Nam Gna1 and 3, Sing district											
1/	Demonstration for rice seed multiplication by using SRI method	2WS	5 FCs	WS		WS		WS		WS	
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5 FCs +40 Farmers	WS		WS				WS	
3/	Contract farming implementation	1time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers	WS		WS				WS	
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multipl demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS				WS	DS
Remarks:											
1) Irrigation construction											
Rice - 2 crop seasons (2 wet seasons or 2 dry seasons or 1 wet + 1 dry season)											
WS - Wet season, DS - Dry season, PPG - Farmer Production Group, FC - Farmer Cooperator											

Table 4 Plan for Agricultural Extension Activities, Bokeo Province

Plan for PPO/DCO Extension Worker Strengthening and Agricultural Extension Activities of Phase II, III and IV subprojects in 2018 - 2022, NRI-AF											
Houay Xo2, Houay Bong, Nam Satone and Nam Kha, Nam Tin2, Houay Sat2 Bokeo province											
No.	Projects/ Activities	Implementing time	No. of Target persons	2018- 2019		2019- 2020		2020- 2021		2021- 2022	
				WS 18	DS 18/19 ¹⁾	WS 19	DS 19/20	WS 20	DS 20/21	WS 21	DS 21/22
1 PAFO and DAFO extension worker strengthening											
1/	On The Job Training for PPO and DCOs on Farmer Production Group Establishment under WUG/WUGA , Contract Farming, O&M implementation, Follow up and Evaluation	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS					
2/	On The Job training for PPO/DCOs about the Demonstration for Rice Seed Multiplication by using SRI method.	1 Time	10-15 (NPMO, PPO,DCOs)	WS		WS					
3/	Field cross visit and experience exchange	4 Times (2 times/season)	10-15 (PPO, DCOs)	WS		WS					
4/	Study tour	1 Time	10-15 (NPMO, PPO,DCOs)				DS				DS
2 Farmer strengthening by PPO/DCO (demonstration, farmer training, farmer study tour, field visit)											
2.1 Houay Xo2 subproject, Paktha district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS	5-10 FCs	WS		WS					
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10FCs +40 Farmers	WS		WS					
3/	Contract farming implementation	1 time/subproject	70 farmers			WS	DS				
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers	WS		WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS					
2.2 Houay Bong subproject, Phouodom district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS	5-10 FCs	WS		WS					
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10 FCs +40 Farmers	WS		WS					
3/	Contract farming implementation	1 time/subproject	70 farmers			WS	DS				
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers	WS		WS					
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO	WS		WS					
2.3 Nam Satone subproject, Houayxai district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS	5-10 FCs			WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10 FCs +40 Farmers			WS		WS			
3/	Contract farming implementation	1 time/subproject	70 farmers			DS	DS	WS			DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers			WS		WS			
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO			WS		WS			
2.4 Nam Kha subproject, Houayxai district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs			WS		WS			
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10 FCs +40 Farmers			WS		WS			
3/	Contract farming implementation	1 time/subproject	70 farmers				DS				DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers			WS		WS			
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO			WS		WS			
2.5 Nam Tin2 subproject, Houayxai district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs					WS	DS		
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10 FCs +40 Farmers					WS	DS		
3/	Contract farming implementation	1 time/subproject	70 farmers				DS		DS		DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers					WS	DS		
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO			WS		WS	DS		
2.6 Houay Sat 2 subproject, Paktha district, Bokeo province											
1/	Demonstration for rice seed multiplication by using SRI method	2 WS/2 DS/WS+DS	5-10 FCs			WS		WS	DS		
2/	Farmer Training on Production and O&M planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	2 times (1 times /season)	5-10 FCs +40 Farmers			WS		WS	DS		
3/	Contract farming implementation	1 time/subproject	70 farmers				DS		DS		DS
4/	Field cross visit and experience exchange	4 times (2 times /season)	120 Farmers			WS		WS	DS		
5/	Farmer Study Tour	1 time/subproject	30-50 farmers				DS				DS
6/	Follow up (rice seed multi demo by SRI, Contract farming, O&M implementation)	2 seasons	NPMO, PPO, DCO			WS		WS	DS		
Remarks:											
1) Irrigation construction											
Rice - 2 crop seasons (2 wet seasons or 2 dry seasons or 1 wet + 1 dry season)											
WS - Wet season, DS - Dry season, FPG - Farmer Production Group, FC - Farmer Cooperator											

Table 5 Production, Monitoring and Evaluation Plan of Cropped area for NRI and NRI-AF subproject in 2021-22

Agricultural Extension Activities ¹⁾	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March
1. Production Evaluation for wet and dry season	■	■								■	■	
2. ISFcollection ²⁾		■	■								■	■
3. Seasonal review and planning meeting ³⁾			■	■								■
4. Production planning for wet and dry season ⁴⁾				■	■							■

Remarks:

- 1) Conduct by PPO/DCO together with WUG committee and block leaders
- 2) ISF collection : (i) Prepare list of irrigated and planted areas, (ii) prepare the report of harvesting area, (iii) prepare the ISF bills of WUG members, (iv) distribute the prepared ISF bills to the farmers, (v) collect the ISF, (vi) writing report of ISF collection.
- 3) 1 time per season
- 4) (i) Land preparation, (ii) Seeding, (iii) transplanting, (iv) water distribution, (v) stop the water irrigating, (vi) harvesting

Table 6 Demonstration activity for rice seed multiplication (SRI) for subproject phase I, II, II and IV

No.	Subproject	Province	2018	2019	2020	2021		2022	Completed in 2 seasons	Remarks
			WS 2018	WS 2019	WS 2020	DS 2020-21	WS 2021	DS 2021-22		
	Phase I									
1	Nam Oun	ODX	WS	WS					Completed	
2	Nam Beng	ODX	WS	WS					Completed	
	Phase II									
3	Nam Hao	ODX	WS	WS	WS				Completed	
4	Nam Tong	PSL	WS	WS					Completed	
5	Nam Ngene 2	PSL	WS	WS					Completed	
6	Nam Sa	LNT	WS		WS				Completed	
7	Nam Lue-Nam Chang	LNT	WS	WS	WS				Completed	
8	Houay Xo 2	BK	WS	WS					Completed	
9	Houay Bong	BK	WS	WS					Completed	
	Phase III									
10	Nam Ngaad	ODX		WS	WS		WS ²⁾		Completed	
11	Nam Hoy-Nam Lou	PSL		WS	WS				Completed	
12	Dongnouark/Nam Tong	PSL			WS			WS ³⁾	Completed	
13	Nam Ma	LNT			WS		WS		Completed	
14	Nam Gna2	LNT			WS		WS		Completed	
15	Nam Kha	BK		WS	WS	DS	WS ²⁾	DS ²⁾	Completed	
16	Nam Satone	BK		WS	WS				Completed	
	Phase IV									
17	Nam Ngay-Nam Boun	PSL			WS			WS ³⁾	Completed	
18	Houay Lap	PSL			WS			WS ³⁾	Completed	
19	Nam Tha 3	LNT			WS		WS		Completed	
20	Nam Gna1 and 3	LNT			WS		WS		Completed	
21	Houay Sat 2	BK			WS	DS	WS ²⁾		Completed	
22	Nam Tin 2	BK			WS	DS			Completed	

Note:

1) Seed SRI: Rice Seed Production by SRI and planned in each subproject for 2 wet seasons or 2 dry seasons, or 1 dry and 1 wet season.

2) Continuing the rice seed multiplication in wide area according to the agreement of provincial governor, reference no.939, dated 27/11/2020

3) Shifted from 2021 wet season to 2022 wet season according to the **COVID 19** situation, official letter of Phongsaly PAFO no.1096, dated 24/6/2021, the result of 2022 wet season will be reported in Q4 2022

Completed	22
Ongoing	0
Total	22

Table 7 Summary of progress of Agriculture Extension Activities

Table 7 Summary of Progress of Agricultural Extension Activities																										Subtotal of Completed/ Ongoing Activities	Remarks		
No.	Agricultural Extension Activities	Target Persons	Target Number	Time	Subproject	Completed/ Ongoing Agricultural Extension Activities (as of 31 December 2022)																							
						Nam Oun	Nam Beng	Nam Hao	Nam Ngaad	Nam Tong	Dong Nouark	Nam Ngene2	Houay Lap	N. Hoy/ N. Lou	N.Ngay- N.Boun	Nam Sa	Nam Ma	N.Lue- N.Chan	Nam Tha 3	Nam Gna2	N. Gna 1&3	Houay Xo 2	Houay Sat 2	Houay Bong	Nam Kha			Nam Salone	Nam Tin2
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			21	22
						District	Houn	Beng	Beng	Houn	Nhot Ou	Bountai	Bounneua	Long	LNT	Sing	Paktha	Phaoudom	Houayxai										
Province	Oudomxay Province					Phongsaly Province					Luangnamtha Province					Bokeo Province													
I. PAFO and DAFO Extension Worker Strengthening																													
1	On The Job Training for PPO and DCOs on Farmer Production Group Establishment under WUG/WUGA , Contract Farming, O&M implementation, Follow up and Evaluation	NPMO, PPO, DCOs	10 - 15	1	Completed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	Completed			
					Ongoing																						0		
2	On The Job training for PPO/DCOs about the Demonstration for Rice Seed Multiplication by using SRI method.	NPMO, PPO, DCOs	10 - 15	1	Completed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	Completed			
					Ongoing																						0		
3	Field cross visit and experience exchange	NPMO, PPO, DCOs	10 - 15	4	Completed	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	88	Completed			
					Ongoing																						0		
4	Study tour	NPMO, PPO, DCOs	10 - 15	1	Completed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	Completed			
					Ongoing																						0		
II. Farmer Strengthening																													
1	SRI Demonstration for rice seed multiplication	FCs /season	5 - 15	2 WS or 2 DS	Completed	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	44	Completed				
					Ongoing																						0		
2	Farmer training on Production and Crop planning, Implementation , Follow up, Data collection and Evaluation, conducted by PPO/DCO	Farmers	70	2 times/ subproject	Completed	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	44	Completed				
					Ongoing																						0		
3	Contract farming implementation	WUG/WUGA members	70	1 time /subproject)	Completed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	Completed				
					Ongoing																						0		
4	Field cross visit and experience exchange	Farmers	120	4 times (2 times /season)	Completed	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	88	Completed				
					Ongoing																						0		
5	Farmer Study Tour	FCs/Farmers, PPO and DCOs	30-50	1 time / subproj.	Completed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	Completed				
					Ongoing																						0		

6. Progress to date

- As of 31 March 2023, the progress of Agricultural Extension Activities in terms of “Farmer Group Strengthening” are:

- (1) Rice Seed multiplication demonstration (RSMD) by SRI technique: twenty-two (22) subprojects completed in 2 seasons up to 2022 wet season
- (2) Field Cross Visit and Experience Exchange: completed the field visit for 88 times in 22 subprojects organized by PPO and DCOs to exchange the experiences among farmer cooperators (FC) themselves
- (3) Farmer Producer Groups (FPGs) and Contract Farming: During the 2018/19, 2019/20, 2020/21, 2021/22 and 2022/23 Dry Season, total twenty-nine (29) producer groups with 44 contract farming signed for Agriculture producing for domestic and export to China.
- (5) Farmer Study Tour: completed 22 subprojects.

Detail of implementation of each activity giving below:

6.1 Rice Seed multiplication demonstration (RSMD) by SRI technique

The rice seed multiplication demonstration in 2021 wet season as 2nd season started from May to November 2021 at the farmer fields of NRI-AF project and completed in five (5) subprojects of phase III and IV in Oudomxay and Luangnamtha province. Thirty (30) farmer cooperators (FC) participated in the implementation of rice seed multiplication demonstration in total area of 3.84ha and they have rice seed of 20,618kgs for rice production more than 340 ha (60kg rice seed/1ha) in the next season, detailed result as in table below

The Implementation result of rice seed multiplication demonstration by SRI for 2nd season in 2021 wet season of NRI-AF subprojects for phase III and phase IV.

No.	Subproject name	Project Phase	No. of village	No. of FCs	Demo plot area (ha)	Rice variety	Seeded date	Trans-planted date	Harvested date	Seed products (kg)	Averaged yield (t/ha)
I. Phongsaly ¹⁾											
	1. Dongnourk	III									
	2. Nam Ngay-Nam Boun	IV									
	3. Houay Lap	IV									
II. Oudomxay province											
	4. Nam Ngaad	III	1	10	1.60	Na Xaang, TDK8 Lao Teak	29/6/2021	15/7/2021	12/11/2021	8,117	5.07
III. Luangnamtha province											
	5. Nam Ma	III	1	5	0.59	Nam Tha 1	15/6/2021	26/6/2021	5/11/2021	3,125	5.33
	6. Nam Gna 2	III	1	5	0.57	TDK 5	16/6/2021	29/6/2021	6/11/2021	2,960	5.21
	7. Nam Gna 1 and 3	IV	1	5	0.56	TDK 5	7/6/2021	20/6/2021	20/11/2021	3,005	5.38
	8. Nam Tha 3	III	1	5	0.53	Takhiat	17/6/2021	28/6/2021	8/11/2021	3,411	6.25
	Total		5	30	3.84					20,618	5.37

Note: 1) Summarized the data from PPO evaluation report in wet season 2021

2) Shift from 2021 wet season to the next 2022 wet season as 2nd season according to the Covid 19 situation

3) The detailed rice seeded and transplanting date will show on table in the next quarter.

1) Oudomxay province

Rice seed multiplication demonstration by SRI in 2021 Wet season at Nam Ngaad subproject, Houn district, Oudomxay province

No.	Name (Husband+Wife)	Village Name	Demo area (m2)	Rice variety	Seeded date	Transplanted date	Harvested date	Seed product (kg)	Yield (t/ha)	Remarks
1	Mr. Tu Lao + Mone	Nam Ngaad	1,600	TDK11	23.7.2021	5.8.2021	7.11.2021	840	5.25	
2	Mr. Bounkhong + Niane	Nam Ngaad	1,600	TDK11	21.7.2021	5.8.2021	8.11.2021	800	5.00	
3	Mr. Oubay + Meam	Nam Ngaad	1,600	TDK11	23.7.2021	5.8.2021	7.11.2021	785	4.91	
4	Mr. Viengthong + Suphone	Nam Ngaad	1,600	TDK11	23.7.2021	5.8.2021	9.11.2021	840	5.24	
5	Mr. Bounpheng + Souk	Nam Ngaad	1,600	TDK11	22.7.2021	5.8.2021	7.11.2021	813	5.07	
6	Mr. Somboune + Khamhung	Nam Ngaad	1,600	TDK11	23.7.2021	3.8.2021	3.11.2021	806	5.04	
7	Mr. Nio + Beu	Nam Ngaad	1,600	TDK11	22.7.2021	5.8.2021	9.11.2021	792	4.95	
8	Mr. Diene + Sem	Nam Ngaad	1,600	TDK11	22.7.2021	4.8.2021	7.11.2021	821	5.13	
9	Mr. Jeu + La	Nam Ngaad	1,600	TDK11	23.7.2021	4.8.2021	7.11.2021	795	4.97	
10	Mr. Liphone + Viengphone	Nam Ngaad	1,600	TDK11	23.7.2021	5.8.2021	8.11.2021	825	5.16	
	Total		16,000							
			1.6 ha					8,117	5.07	

2) Luangnamtha province

Rice seed multiplication demonstration by SRI in 2021 Wet season at Nam Tha3 subproject, Nam Tha district, Luangnamtha province

Nam Tha3 subproject, Luangnamtha district, LNT

No.	Name	Village Name	Demo area (m2)	Rice variety	Seeded date	Transplanted date	Harvested date	Seed product (Kg)	Yield (t/ha)
1	Mr. Hom Oun	Pa Poa	1,350	Takhiat	27/6/2021	13/7/2021	12/11/2021	715	5.30
2	Mr. Jeua Nor	Pa Poa	1,100	Takhiat	5/6/2021	20/6/2021	5/11/2021	612	5.56
3	Mr. Nor Ly	Pa Poa	1,600	Takhiat	14/6/2021	28/6/2021	25/11/2021	795	4.97
4	Mr. Kham Sing	Pa Poa	1,020	Chaomali	20/6/2021	6/7/2021	8/11/2021	610	5.98
5	Mr. Lar Oun	Pa Poa	1,200	Takhiat	5/6/2021	26/6/2021	6/11/2021	679	5.66
	Total		6,270					3,411	5.44

Rice seed multiplication demonstration by SRI in 2021 Wet season at Nam Ma subproject, Long district, Luangnamtha province

Nam Ma subproject, Long district, LNT

No.	Name	Village Name	Demo area (m2)	Rice variety	Seeded date	Transplanted date	Harvested date	Seed product (Kg)	Yield (t/ha)
1	Mr. Kham Thao	Nongkham	1,250	Namtha 1	13/6/2021	28/6/2021	25/11/2021	625	521.00
2	Mr. May Keo	Nongkham	1,200	Namtha 1	14/6/2021	29/6/2021	5/11/2021	665	5.54
3	Mr. Kham Oak	Nongkham	1,300	Namtha 1	9/6/2021	25/6/2021	10/11/2021	711	5.47
4	Mr. May Oun Luang	Nongkham	1,120	Namtha 1	9/6/2021	24/6/2021	12/11/2021	603	5.38
5	Mr. May Phad	Nongkham	1,020	Namtha 1	7/6/2021	23/6/2021	15/11/2021	521	5.11
	Total		5,890					3,125	5.39

Rice seed multiplication demonstration by SRI in 2021 Wet season at Nam Ma subproject, Sing district, Luangnamtha province

Nam Gna2 subproject, Sing district, LNT

No.	Name	Village Name	Demo area (m2)	Rice variety	Seeded date	Transplanted date	Harvested date	Seed product (Kg)	Yield (t/ha)
1	Mr. Nane Nuan	Ban Sor	1,300	TDK5	25/6/2021	9/7/2021	15/11/2021	650	5.00
2	Mr. Kham Sone	Ban Sor	1,150	TDK5	1/7/2021	17/7/2021	25/11/2021	659	5.73
3	Mr. May Saeng	Ban Sor	1,200	TDK5	1/7/2021	19/7/2021	25/11/2021	602	5.02
4	Mr. May Duang	Ban Sor	1,050	TDK5	5/7/2021	18/7/2021	28/11/2021	534	5.09
5	Mr. Maytham	Ban Sor	980	TDK5	10/6/2021	24/6/2021	29/11/2021	515	5.26
	Total		5,680					2,960	5.21

Rice seed multiplication demonstration by SRI in 2021 Wet season at Nam Gna1-3 subproject, Sing district, Luangnamtha province

Nam Gna1-3 subproject, Sing district, LNT

No.	Name	Village Name	Demo area (m2)	Rice variety	Seeded date	Transplanted date	Harvested date	Seed product (Kg)	Yield (t/ha)
1	Mr. May Inh Gnay	Tin Thad	1,150	TDK5	6/6/2021	19/6/2021	25/11/2021	564	4.90
2	Mrs. Saeng	Tin Thad	1,100	TDK5	11/6/2021	23/6/2021	26/11/2021	552	5.02
3	Mr. Mrs. Euay	Tin Thad	986	TDK5	3/6/2021	19/6/2021	21/11/2021	611	6.20
4	Mr. May Nuane	Tin Thad	1,120	TDK5	29/5/2021	14/6/2021	26/11/2021	655	5.85
5	Mr. may Duang Noy	Tin Thad	1,230	TD5	6/6/2021	20/6/2021	26/11/2021	623	5.07
	Total		5,586					3,005	6.07



3) Phongsaly province

The Rice seed multiplication demonstration of 2022 wet season completed the 2nd season for three (3) subprojects such as Nam Tong, Nam Ngay-Nam Boun and Houay Lap subprojects at Phongsaly province, summarized by consultant in detail below

No	Name of farmer cooperater	Demo area (m ²)	Rice variety	Seeded	Transplanted	Harvested	Seed product(Kg)	Yield (t/ha)
Nam Tong subproject, Nhot Ou district, PSL								
1	Mr. T Mone	1,000	Khao Hom	29/5/2022	14/6/2022	30/9/2022	530	5.30
2	Mr. Saeng Suk	400	Chao Hom	19/5/2022	3/6/2022	23/9/2022	245	6.12
3	Mr. Chom Paeng	400	Khao Hom	20/5/2022	6/6/2022	23/9/2022	240	6.00
4	Mr. Saeng Phet	600	Khao Hom	29/5/2022	14/6/2022	28/9/2022	275	4.58
5	Mr. Thong Keo	600	Khao Hom	29/5/2022	14/6/2022	30/9/2022	330	5.50
6	mr. Vene Douang Chanh	500	Khao Hom	15/5/2022	6/6/2022	21/9/2022	270	5.40
7	Mr. Vy Keo	700	Khao Hom	29/5/2022	14/6/2022	29/9/2022	365	5.21
	Total	4,200	(0.42ha)				2,255	5.21
Nam Ngay-Nam Boun subproject, Bounneua district, PSL								
1	Mr. Leck	600	Khao Khaao	22/5/2022	6/6/2022	25/9/2022	270	4.50
2	Mr. Kham Anhad	600	Khao Khaao	22/5/2022	6/6/2022	24/9/2022	286	4.77
3	Mr. Gnine	600	Khao Khaao	22/5/2022	6/6/2022	25/9/2022	304	5.07
4	Mr. Kham Phao	600	Khao Khaao	23/5/2022	8/6/2022	28/9/2022	290	4.83
5	Mr. Chai Nam	600	Khao Khaao	23/5/2022	8/6/2022	28/9/2022	370	6.67
	Total	3,000	(0.30ha)				1,520	5.17
Houay Lap subproject, Bountai district, PSL								
1	Mr. May Sing Thong	860	Thorakhong	11/6/2022	26/6/2022	16/10/2022	520	6.05
2	Mr. May Onkeo	800	Hang Gnao	11/6/2022	26/6/2022	15/10/2022	470	5.89
3	Mr. Hung	800	Hang Gnao	14/6/2022	29/6/2022	17/10/2022	440	5.50
4	Mr. May Oun Peng	660	Hom Nhot Ou	18/6/2022	30/6/2022	19/10/2022	340	5.15
5	Mr. Hack	660	Hom Nhot Ou	14/6/2022	25/6/2022	19/10/2022	360	5.45
6	Mr. Xeuan	660	Hom Nhot Ou	14/6/2022	29/6/2022	16/10/2022	355	5.38
7	Mr. Sommai	660	Hom Nhot Ou	14/6/2022	29/6/2022	19/10/2022	320	4.85
8	Mr. La	660	Hom Nhot Ou	14/6/2022	29/6/2022	18/10/2022	370	5.61
	Total (20FC)	5760	(0.56ha)					

4) Rice seed multiplication in 2020-21 dry season Bokeo.

Rice seed multiplication by SRI technique in 2020-21 dry season and 2021 wet season were conducted in the fields of 100 farmer cooperators (FCs) with the total area of 46,50ha at three (3) subproject sites like Houay Sat2 subproject (Paktha district) Nam Kha subproject (Phaoudom district) and NamTin2 subproject (Houayxai district).

50 farmer cooperators (FCs) conducted the rice seed multiplication in 2021 wet season with the total area of 36.40ha and got the seed products of 210 tons that it will be supported for the rice growing more than 3,000ha (60kg seed/ 1ha)

Season	Subproject	Project phase	Area (ha)	No. of FC	Rice variety	Seed products (tons)
DS 2020-21	Nam Tin2	IV	2.40	15	Hom Phoy	11,60

DS 2020-21	Houay Sat2	IV	3.10	15	Hom Phoy	16,10
DS 2020-21	Nam Kha	III	4.60	20	Hom Phoy	23,40
			10.10	50		51.10
WS 2021	Nam Kha	III	30.00	30	Hom Phoy	174,00
WS 2021	Houay Sat2	IV	6.40	20	Hom Phoy	36,00
			36.40	50		210
Total			46.50	100		261,10



Result of rice seed multiplication by SRI in dry season 2021-22 at Nam Kha subproject

As of 30 June 2022, the rice seed multiplication by SRI dry season 2021-22 harvested on the 4th May 2022 and shows detailed result in table below.

Season	Subproject	Project phase	Area (ha)	No. of FC	Rice variety	Transplanted. date	Harvested date	Yield (t/ha)	Rice seed product (tons) ¹⁾
DS 2021-22	Nam Kha	III	30.0	30	Hom Phoy	2/1/2022	4/5/2022	5.6	128
Total			30.0	30					128

Note: 1) Cleaned rice seed



Harvesting

Drying and threshing
Rice seed cleaning and Packing

5. Result of rice seed multiplication in 2022 wet season

As of 31 December 2022, the summary of the implemented rice seed multiplication technique of 2022 wet season in three (3) subprojects was completed. The rice seed multiplication conducted in the field of 55 farmer cooperators with total area of 25.6ha. Two (2) rice varieties as TDK11 and Homphoy used for seed multiplication and gave the seed product of 133 tons cleaned rice seed and can use in next production season more than 2,000ha (60-70kg cleaned seed per 1 hectare), detailed result is giving in table below.



6. Learned of rice seed multiplication demonstration

The farmers have skills and knowledge of technique for rice seed production supported from the project. They can produce high and pure seed quality by themselves to keep enough seed for the next growing season that the seed is the one factor to increase the rice yield.

Subproject	Province	No. of farmers	Cropping area (ha)	Rice variety	Transplanted date	Harvested date	Total Yield ¹⁾ (tons)
1. Nam Hao	ODX	16	2.56	TDK11	1/8/2022	3/11/2022	16.0
2. Nam Ngaad	ODX	19	3.04	TDK11	5/8/2022	8/11/2022	21.0
3. Nam Kha	BK	20	20.00	Homphey	17/7/2022	12/10/2022	96.0
Total		55	25.6				133.0

Note: 1) rice seed through the cleaning



6.2 Field Cross Visit and Experience Exchange

As of 31 March 2023, completed the field visit for 88 times in 22 subprojects organized by PPO and DCOs to exchange the experiences among farmer cooperators (FC) themselves.

The objective is to increase the skills and knowledge of farmers to have the technique of rice seed production in each step from seedling preparation, field transplanting, maintenance, plant selection, harvesting, seed processing and storage.

Farmers receive from this activity that they can produce rice seed by themselves, use improved rice varieties with high yielding and have enough rice seed for the rice growing in wet and dry season.

Farmer field visit to experience exchange between farmer cooperators (FC) who conducted rice seed multiplication demonstration and benefit farmers in 2021 wet season organized by PPO/DCO in Nam Ngaad subproject, Beng and Houn district, Oudomxay province

Subproject	Participants
1. Nam Ngaad	25 (6)
2. Nam Beng	15 (7)
Total	40 (13)

6.3 Farmer Producer Groups (FPGs) and Contract Farming:

Crop Production Monitoring and Evaluation in NRI-AF (Additional Financing) Subprojects Area – During the 2018/19, 2019/20, 2020/21, 2021/22 and 2022/23 Dry Season, total twenty-nine (29) producer groups with 44 contract farming signed for Agriculture producing for domestic and export to China

Before entering dry season, investor/buyer contracts with FPG for commercial crop production for the coming dry season. This type of contract farming is usually formed at seasonal basis for specific crop production

- During 2018/2019 dry season, six (6) FPGs in Nam Oun and Nam Beng (Phase I) grew pumpkin, watermelon, rice and green bean production with a total growing area of 280 ha at contract basis as summarized in the table below

Subproject	Investor	Crop	Production Form	Area
Nam Oun				
	Ms. Vanthong	Pumpkin	1+4	5
		Watermelon	1+4	5
	Chitsui Company	Watermelon	1+4	10
	Jinong Company	Rice	2+3	20
Nam Beng				
	Xing Ta Company	Rice	2+3	50
		Green Bean	2+3	50
	Mr. Oun	Green Bean	2+3	70
	Chaji	Watermelon	1+4	70
TOTAL				280

- During 2019/2020 dry season, seven (7) FPGs in 3 subprojects of NRI-AF Phase I, II and III grew green bean, watermelon and pumpkin production with a total growing area of 211 ha at contract basis.

Subproject	Investor	Crop	Prod. Form	Growing Area (ha)	Yield (ton/ha)	Total Yield (ton)	Contracted Price (kip/ton)	Total Income (kip)
N.Hoy-N.Lou								
	Mr. Khampasong	Greenbean	2+3	20.0	15.0	300.0	2,500,000.0	750,000,000
	Mr. Somchit	Pumpkin	2+3	5.0	20.0	100.0	1,000,000.0	100,000,000
	Mr. Oubkham	Greenbean	2+3	42.0	15.0	630.0	2,500,000.0	1,575,000,000
	Mr. Jing Fa	Pumpkin	2+3	19.0	20.0	380.0	1,000,000.0	380,000,000
	Mr. Sivanh Solathy	Greenbean	2+3	27.0	15.0	405.0	2,500,000.0	1,012,500,000
Nam Satone								
	Mr. Nuane	Watermelon	1+4	88.0	15.0	1320.0	1,000,000.0	1,320,000,000
Nam Beng								
	Mr. Singthong	Watermelon	1+4	10.0	20.0	200.0	1,000,000.0	200,000,000
Total				211.0				5,337,500,000

- During 2019/2020 dry season, three (3) FPGs in Nam Kha subproject (Phase III) engaged in contract farming for rice production with a total growing area of 88.0 ha.

Subproject	Investor	Crop	Prod. Form	Growing Area (ha)	Yield (ton/ha)	Total Yield (ton)	Contracted Price (kip/ton)	Total Income (kip)
Nam Haad (LB)								
	Mr. Jing Ming	Rice	2+3	20.0	4.5	90.0	2,500,000.0	225,000,000
	Mr. Somphet	Rice	2+3	15.0	4.5	67.5	2,500,000.0	168,750,000
Nam Kha 1								
	Ms. Deng	Rice	2+3	53.0	4.5	227.9	2,500,000.0	569,750,000
Total				88.0				963,500,000

- In November 2020, the project supported meetings between potential investors, farmers and PAFO/DAFO/PICO/DICO in all Phase II and III subprojects for contract farming during 2020/21 dry season.

- 18 Nov 2020: Meeting at Bountai DCO office for 6 subprojects of Nam Lan, Nam Ngene, Nam Ngene 2, Nam Xang, Houay Lap and Nam Ngay-Nam Boun
- 23 Nov 2020: Meeting at Pha Oudom Village Meeting Room for 5 subprojects of Nam Tin2, Nam Pouk 2, Nam Chae, Nam Kha and Houay Sat 2
- 25 Nov 2020: Meeting at Nam Dai WUA Meeting Room for 6 subprojects of Nam Dai, Nam Gna 4- Houay Luang, Nam Gna 5, Hongkong, Nam NGene – Thongpaene, and Nam Tha 3
- 27 Nov 2020: Meeting at Beng DAFO Meeting Room for 2 NRI-AF Phase I subprojects of Nam Beng and Nam Oun.

- During 2020/21 dry season, seven (7) FPGs of 5 subprojects (7 sub-schemes) of NRI-AF grew various cash crops such as green bean, pumpkin and fresh/hard soybean under contract with a total growing area of 568ha. The results of contract farming during 2020/21 dry season are summarized in the table below.

Subproject	Investor	Crop	Prod. Form	Growing Area (ha)	Yield (ton/ha)	Total Yield (ton)	Contracted Price (kip/ton)	Total Income (kip)
N. Ngay-N. Boun	Khunsiheuang	Pumpkin	2+3	10	15	150	2,400,000	360,000,000
Nam Beng	Ji Thu	Soybean	1+4	45	2	90	3,000,000	270,000,000
		Green Bean	1+4	3	12	36	2,400,000	86,400,000
Nam Tha 3	Lao China Co., Ltd.	Fresh Soybean	1+4	350	9	3,150	n.a.	n.a.
Nam Tin 2	Mangkone Trading	Fresh Soybean	1+4	40	11	440	n.a.	n.a.
Nam Kha (Nam Ka)	Mangkone Trading	Rice Seed	2+3	65	4.5	293	3,000,000	877,500,000
Nam Kha (N. Haad)	Mangkone Trading	Rice Seed	2+3	35	4.5	158	3,000,000	472,500,000
Nam Kha (H. Lieng)	Mangkone Trading	Rice Seed	2+3	20	4.5	90	3,000,000	270,000,000
Total				568				2,336,400,000

- In early November 2021, the project supported meetings between potential investors, farmers and PAFO/DAFO/PICO/DICO in Nam Beng and Nam Oun subprojects for contract farming during 2021/22 dry season.
- During 2021/22 dry season, six (6) FPGs of 3 subprojects of NRI-AF are growing various cash crops such as watermelon, green bean, sweet corn under contract with a total growing area of 64.2ha. The progress of contract farming during 2021/22 dry season are summarized in the table below.

Subproject	Investor	Crop	No. of FPG	No. of group member	Prod. Form	Growing Area (ha)	Est. Yield (ton/ha)	Contracted Price (kip/kg)
Nam Oun	Ji Thu	Watermelon	1	45	1+4	38	20	1,000
Nam Beng	Ji Thu	Green Bean	2	4	1+4	1.2	10	2,000
		Watermelon	1	5	1+4	4	20	1,000
		Sweet corn	1	2	1+4	1	8	5,000
Nam Kha (H. Lieng)		Rice Seed	1	10	2+3	20	4.5	3,000
Total						64.2		



Sweet pepper production during DS 2021/22 at Nam Ngene 2 subproject, PSL. (Mar. 2022)



Green and yellow pumpkin production during DS 2021/22 at Nam Lan subproject, PSL (Mar. 2022)

- During 2022/23 dry season, eight (8) FPGs of 5 subprojects of NRI-AF are growing various cash crops such as Chili, Pumpkin, green bean, and rice seeds under contract with a total growing area of 431ha in 2 provinces (Bokeo and Phongsaly). Contract farming and area giving below:

Nam Ngene2	Boun Panh Mavong	Chilli		2+3		7.5
Nam Tong	Ms. Thao Seng	Greenbean		2+3		30.3
Nam Tong		Pumpkin		2+3		39.0
Nam Tong	Ung Phom Tomchar	Greenbean		2+3		21.0
Nam Tong	Boualy Seng Chanh	Greenbean		2+3		16.0
Nam Tong	Ji Thu	Greenbean		2+3		40.0
Nam Tong	Kham Lod company	Greenbean		2+3		8.0
Nam Tong		Pumpkin		2+3		45.0
Nam Tong	Ounkeo	Pumpkin		2+3		31.0
Dong Nouak	Boualy Sengchanh	Pumpkin		2+3		5.0
Dong Nouak	Ji Thu	Pumpkin		2+3		10.0
Nam Hoy-Nam Lou	Khampasong	Pumpkin		2+3		65.0
Nam Hoy-Nam Lou	Boun Thiang	Green bean		2+3		14.0
Nam Hoy-Nam Lou	Khounsiheuane	Pumpkin		2+3		52.0
Nam Hoy-Nam Lou	Lao Vaang	Pumpkin		2+3		27.0
Nam Kha	Nam Haad-Houay L	Rice seed		2+4		20.0

6.4. Farmer study tour

The farmer study tour for beneficiary farmers together with PPO and DCOs organized by NRI-AF project for 1 time per subproject is to increase farmer knowledge and skills through the experience exchange between farmers who were successful experiences about rice and crop growing in irrigated area to marketing. The main topics were (i) the management of commercial crop production in irrigated area related to marketing, (ii) commercial vegetable growing in green houses and (iii) production under contract farming, (iv) Irrigation Operation and Maintenance (O&M).

In the 4th quarter, PPO organized the additional study tour for farmer in 17 subprojects covered the phase 1, 2, 3 and 4 subprojects, had the participant of 209 persons with 53 female.

As of 31 December 2022, the farmer study tour supported by NRI-AF completed all 22 subprojects and had the participant of 547 persons with 163 females (31%), detailed in table (below).

Result of farmer study tour in NRI-AF project as of 31 December 2022

No.	Subproject	Province	Phase	Completed (1st)		Completed (2nd)		Completed (3rd)		Participants			
				DS 2019-20 and DS2020-21	No. of participants	Implemented time	DS 2021-22	No. of Participants	Implemented time	DS 2022-23	No. of Participants	Implemented time	Total participants
1	Nam Oun	ODX	1	1	37(12)	16-22/2/2020					37	12	
2	Nam Beng	ODX	1	1									
3	Nam Hao	ODX	2				1	39 (11)	6-11/2/2022		39	11	
4	Nam Ngaad	ODX	3				1						
5	Nam Tong	PSL	2	1	40 (16)	26/3/-2/4/2021					40	16	
6	Nam Ngene 2	PSL	2	1								47	15
7	Nam Hoy-Nam Lou	PSL	3	1									
8	Dong Nouark	PSL	3				1	53(19)	28-31/3/2022		53	19	
9	Nam ngay-Nam Boun	PSL	4				1						
10	Houay Lap	PSL	4				1						
11	Nam Sa	LNT	2	1	25 (8)	3-7/12/2019					25	8	
12	Nam Lue-Nam Chang	LNT	2	1								55	10
13	Nam Ma	LNT	3	1						1	40	6	
14	Nam Gna2	LNT	3				1	42(15)	26-30/4/2022		42	15	
15	Nam Tha 3	LNT	4				1						
16	Nam Gna 1 and 3	LNT	4				1						
17	Houay Bong	BK	2	1	40 (15)	1-3/3/2020					40	15	
18	Houay Xo2	BK	2	1									
19	Nam Kha	BK	3	1									
20	Nam Satone	BK	3				1	62(20)	24-27/2/2022		62	20	
21	Nam Tin 2	BK	4				1				67	22	
22	Houay Sat 2	BK	4				1				67	22	
Total	22	4	11	11	142 (51)		8	196(65)		17	209(53)	547	169
													31%

Note: Oudomxay PPO will organize the 3rd study tour in January 2023 for farmers of Nam Oun, Nam Beng, Nam Hao and Nam Ngaad subproject and will be reported in Q1 2023

(1) Oudomxay province: PPO organized the study tour for farmers of Nam Hao (Beng dist.) and Nam Ngaad subprojects (Houn dist) from 6-11 February 2022 to visit and exchange the experiences with farmers of Nam Tin and Nam kha subprojects in Bokeo province and the total participant was 39 persons (female -11) .

The study tour topic is (i) exchanged the experiences of WUG management focussed on operation and maintenance(O&M) of irrigation system, (ii) grain soybean production related to the needs of markets, (iii) visited the and bio fertilizer production of farmer group at Nam Tin subproject,(iv) rice production under contract farming with the production form 2+3, (v) visited and experience exchanged for rice seed processing focussed seed cleaning ,drying, packing and storage at Nam Haad-Houay Lieng WUA (Phaoudom district).



Visited rice seed processing of Nam Haad-Houay Lieng WUA (rice seed cleaning, packing and Storage)



Experience exchange with Nam Haad-Houay Lieng WUA about WUA management, O&M and irrigation water distribution



(2) Bokeo

The study tour topic is (i) the experience exchange of rice seed multiplication in farmer fields, (ii) commercial crop production under contract farming focussed grain soybean and water melon production in dry season related to the needs of buyers /markets, (iii) irrigation water management according to the cropping plan of each season and (iv) WUG administration and management focussed on operation and maintenance (O&M) of irrigation system.

- PPO organized the study tour for farmers of Nam Kha (Phaoudom dist.), Nam Tin2 (Houayxai dist.) and Houay Sat2 subproject (Paktha dist) from 24-27 February 2022 to visit and exchange

the experiences with farmers of Nam Beng and Nam Oun subprojects in Oudomxay province and the total participant was 62 persons (female -20).

- In the 4th quarter, PPO organized the additional study tour for farmer in 6 subprojects 6-11 December 2022 to visit the production fields and exchanged experiences about the agricultural marketing extension and contract farming activities in Nam Lan and Nam Ngene-Nawai subprojects (Bountai district) and dry season commercial crop production in Nam Hoy-Nam Lou subproject (Bounneua district) in Phongsaly province and the total participant was 67 persons (female 22).

From 24-27 February 2022

Exchanged the experience of WUG administration and soybean production under contract farming in DS 2021-22 at Nam Oun subproject



Visited vegetable in greenhouses at Viengsa village (Beng dist.) and Soybean growing in DS 2021-22 at Nam Oun subproject (Houn dist.)



Visited Nam Hin agricultural technical service center at Xay district



From 6-11 December 2022

Exchanged the experiences of commercial crop production under Contract farming and visited pumpkin production fields in Nam Hoy-Nam Lou subproject at Bouneua district (Phongsaly province)



(3) Phongsaly

The topic of study tour is (i) WUGA administration and management, (ii) operation and maintenance (O&M) of irrigation system, (iii) commercial crop production under contract farming with the production form of 2+3 related to the needs of market and (iv) production planning under water availability.

- PPO organized the study tour for farmers of Nam Ngay-Nam Boun, Dongnouark and Houay Lap subprojects from 28-31 March 2022 to visit and exchange the experiences with benefit farmers of Nam Lan-Nam Ngene Ban Nawai WUGA at Bountai district and the total participant was 53 persons (female -19)

- During the 4th quarter, PPO organized the additional study tour for farmer in 6 subprojects 7-14 November 2022 to visit the commercial rice and crop production fields and to exchange the involves experiences in Dian Bian Fu (Vietnam) and the total participant was 47 persons(female15).

From 28-31 March 2022

Exchanged the experiences between farmer of Nam Ngay-Nam Boun, Houay Lap and Dongnouark with benefit farmers of Nam Lan-Nam Ngene Ban Nawai WUGA at Bountai district.

Visited the farmer preparation of pumpkin product after harvesting to sell to the buyer/Investor (Bounpanh Co.ltd.) at Nam Lan-Nam Ngene Ban Nawai WUGA.





From 7-14 November 2022 in Dian Bian Fu (Viet Nam)

Visited the commercial rice, crop production and irrigation system in Dian Bian Fu / Vietnam



(4) Luangnamtha



- PPO organized the study tour for farmers of Nam Gna2, Nam Gna 1&3 and Nam Tha 3 from 24-27 February 2022 to exchange the experiences with farmers of Nam Ngene and Nam Lan subprojects in Phongsaly province and the total participant was 42 persons (female -15). The topic of study tour is (i) exchanged the experiences of WUAG development and O&M, (ii) rice seed multiplication in farmer fields, (iii) visited pumpkin production in irrigated under contract farming in 2021-22 dry season related to the needs of buyers /markets.



Visited Nam Lan irrigation head work and pumpkin growing in 2021-22 dry season

During the 4th quarter, PPO organized the additional study tour for farmers in 5 subprojects in two times (i) Nam Lue-Nam Chang from 1-3 November 2022 with total participant of 55 persons(female10) and (ii) Nam Ma, Nam Gna2,Nam Tha 3 and Nam Gna1&3 from 25-27 October 2022 with the total participant of 40 persons(female 6), to visited the crop production fields and exchanged the experience between farmers of 5 subprojects from Luangnamtha district and farmers of Nam Dai5+6 (Sing district) and Nam Ma Oun (Long district).

Exchanged the experience for rice and crop production between benefit farmers at NamDai 5-6 WUGA meeting room (Sing district)

