

# Report of Third Training on

**“Applying Assisted Natural Regeneration (ANR) for restoring forest ecosystem services in Southeast Asia” in Touk Meas commune, Banteay Meas district, Kampong Speu province**

**March, 11-13<sup>th</sup> 2013**

## **I. Introduction**

On March, 11-13<sup>th</sup> 2013, The Forestry Administration (FA) organized the third training on **Assisted Natural Regeneration (ANR)** for local community, local forestry administration, FAO officers, and local authorities. The training was conducted following the BPFJ training as same as the first and second training trained by Mr. Patrick Charles Dugan Jr. from Bagong Pagasa Foundation of the Philippines.

The training was held in Touk Meas commune, Banteay Meas district near by the project site at Phnom Sen Han Community Forestry. All materials and content were updated a bit different from the previous training containing lesson learned from ANR model site.

## **II. Objective of the Training**

This training was designed for field implementers so they will be able to understand what Assisted Natural Regeneration (ANR) is, learn the proper techniques involved and know how to correctly monitor performance. Furthermore, the training was to promote objectives, techniques, and application of ANR to other community forestry to take their interests in forest restoration.

## **III. Training Participants**

There were 29 persons (4 women) that participated in the ANR training. Lecture topics consisted of the following topics:

- The progress of project implementation
- The advantage of forest
- Guiding Principles and Elements of ANR
- Assessing ANR sites
- Objective setting for ANR
- Monitoring ANR
- Fire Management

## **Day 1 : March 11, 2013**

The morning session was opened with remarks by Mr. Chuon Sara, Chief of Kep FA division and the speech was opened by Mr. Chea Chanly, Banteay Meas district governor. Mr. Chea Chanly was very welcomed and supported to the training on ANR techniques. He also mentioned on the difficulties of the project that needed supports and participation from local community as well as local FA and local authorities.

At the end of the session, he encouraged to all participants to fully join the training to learn the new techniques in order to apply to their degraded forest.



Fig1. Group photo of the training

After the opening ceremony, the questionnaire of pre-training evaluation was contributed to all participants in order to assess their knowledge on ANR. The ANR team of FA trained the training and all materials were translated into Khmer and provided to the participants.

Before starting the lectures, the trainer identified expected outputs of the training. Then, the trainer presented on the progress of the project implemented in the model site at Phnom Sen Han Community Forestry and the advantage of forest for their daily life. The lesson learned and experiences on ANR including factors for success and challenges in Philippines were introduced. The key successes of ANR are participation from community, local authority, student, and stakeholders, especially the support of district government in guarding and ANR site maintenance.

The lecturer also showed the cost-benefit analysis of forest restoration between ANR method in Philippines and conventional tree plantation. The data showed that ANR is a simple method that is easy for community to apply and has lower cost than conventional tree plantation because it does not require nursery, seed collection, seed germination, site preparation, and planting.



Fig. 2: Cost-benefit analysis of forest restoration between ANR method and conventional tree plantation



Fig.3: The process of forest rehabilitation

### **Day 2: March 12, 2013**

In the morning session, all participants joined field visit in the ANR model site to see the landscape of restoration area, to practice ANR method on how to mark seedling under grass and how to use grass-pressing board, and liberating trees from vine. An experience and lesson learnt from ANR implementation were exchanged among community forestry particularly use value of NTFPs species.

marking desirable seedlings, weeding, grass pressing,



Picture 4: ANR model site briefing information



Picture 5: Experience sharing among CF



Picture 6: Tree marking



Picture 7: Grass pressing

After the field practice in the afternoon session, each group presented their responses to key questions designed to review the understanding of participants about ANR technique. Next, the trainer also showed how to select an ANR site, establish firebreak and fire line, forest fire protection techniques, and how to improve the growth of natural sapling, especially how forest expand to eco-tone.



Fig. 8: Group discussion after field visit, and make presentation

**Day 3: March 13, 2013**

In the morning session, all participants joined field practice in the ANR model site on firebreak establishment and how to monitor seedlings in ANR site. The participants were divided into two groups to practice above activities. Moreover, the lecturer recommended that dead branches and leaves should be removed from the firebreak. In case there are some useful plant species in firebreak, they should be kept. If it is hard to make fire break because of rocks, herbicides were recommended.



Fig. 9: Poster on forest fire protection



Firebreak visiting



Discussion activity on ANR site monitoring



#### IV. Suggestion and Recommendation

All participants suggested that:

- ❖ A further raising awareness on ANR techniques for local community still needs due the limited of people knowledge.
- ❖ If possible posters, leaflet and other simple training material containing picture should be produced, then distribute to community forestry for extension to people who can't read.
- ❖ Trainees also wishes an expert on ANR help them with ANR practical skill to restore degraded forest in there forest as well as follow up this work.

#### V. Conclusion

The training course was a success with participants from local community; authority and forester particularly warm welcome of the Banteay Meas district governor. Accordance with posttest evaluation trainees gained knowledge 80% from the training course due pre test evaluation 45%.

However some challenges found that all participants still has limited to identify their objectives if apply ANR technique in individual forest community. Respond to this issue, they may be further need technical assistance or raising awareness on ANR objectives identify among community forestry as well.

**Appendix I:****List of participant in the third training on ANR technique****From 11<sup>th</sup> -13<sup>th</sup> March 2013**

<b>N°</b>	<b>Name</b>	<b>Sex</b>	<b>Position</b>
1	CheaChanly	M	Governor of BanteayMeas District
2	CherngKuy	M	Deputy of Governor of BanteayMeas District
3	Choun Sara	M	Chief of Kep FA Division
4	MormSopheap	M	Deputy Chief of Angkor Chhey FA friage
5	SeangSoathorn	M	Officer of Kampot FA Cantonment
6	Hun Man	M	Chief of SamrongLeu Commune
7	Long Ny	M	Chief of Phnom Sen Han CF
8	Chhror Mao	M	Chief of ChreyBratakKrolar CF
9	NheamNhan	M	Chief of Doun Bon CF
10	Y Mono	M	Chief of ChrosSlar CF
11	KhutHorm	M	Deputy Chief of Doun Bon CF
12	Uy Nan	F	Deputy Chief of Phnom Mrom CF
13	Kim Nat	M	Deputy Chief of ChrosSlar CF
14	Boun Bros	M	Deputy Chief of Phnom Kong CF
15	Nub Sam	M	Deputy Chief of DermDoung CF
16	Kim Ren	M	Director of ChorsSlar CF's Sub committee
17	PhanThear	M	Secretary of ChreyBratakKrolar CF
18	Morn Sarer	F	Secretary of Phnom Kong CF
19	CheaSreypao	F	Cashier of ChrosSlar CF
20	Chan Rern	M	Phnom Mrom CF's member
21	RosSok	M	ChrosSlar CF's member
22	Pen Saem	M	-
23	Long Kern	M	-
24	Long Channa	F	-
25	EmPhearun	M	-
26	VitRy	M	-
27	SengThear	M	-
28	Min Nern	M	-
29	SimSem	M	Secretary of DermDoung CF

**Appendix II:**

**Training Program on  
“Applying Assisted Natural Regeneration (ANR)for restoring forest ecosystem  
services in Southeast Asia”**

**inDomBok Khpus commune, Angkor Chey district, Kampot province**

**July 26<sup>th</sup>-27<sup>th</sup>, 2014**

<b>DAY 1: July 26<sup>th</sup> 2014</b>				
<b>TIME</b>	<b>ACTIVITY</b>	<b>CONTENTS</b>	<b>METHODOLOGY</b>	<b>RESPONSIBLE PERSONS</b>
08:00-8:30	Registration of participants			
08:30-9:00	Short Opening Program			Mr. Choun Sara <sup>1</sup> Mr. CheaChanly <sup>2</sup>
09:00-9:15	Group photo	Picture		
09:15-09:30	Pre-test	All participants asked to fill questionnaire before training start		Mr. Keth Nang <sup>3</sup> Mr. Kim Sobon <sup>4</sup>
09:30-10:00	Summery the importance of forestry and the problem of forest degradation	Determine the pospuse of workshop	Discussion	Mr. Keth Nang Mr. Kim Sobon
10:00-10:15	Break			
10:15-10:40	Lesson 1: . Guiding Principles and Elements of ANR	Common understanding of ANR		Mr. Keth Nang
10:40-11:00	Lecture 1: Beneficiary of forest and its challenges	Discussing on Guiding Principles and Elements of ANR		Mr. Kim Sobon
11:00-12:00	Practice 1: observation	Discussing on Guiding Principles and Elements of ANR		
12:00-1:00	Lunch Break			
01:00-01:30	Group discussing about filed observation	Trainee give comment about filed observation	Lecture	Mr. Keth Nang
01:30-02:00	Lesson 2: . Assessing ANR sites	guide to assess ANR sites	Discussion	Trainer/Trainees

<sup>1</sup> Chief of Kep forestry administration division, Kampot FA cantonment

<sup>2</sup> BanteayMeas district governor

<sup>3</sup> ANR coordinator and deputy chief of botanist research and forest development center

<sup>4</sup> Technical assistance and deputy chief of monitoring and evaluation office

02:00- 2:45	Lecture 3. Objective setting for ANR	Set objectives for ANR application at various type of sites	Lecture	Mr. Keth Nang
02:45-03:00	Break			
03:00-03:30	Determine the activities in model site	Made an activities list base on filed observation and lesson 1-3		
<b>DAY 2: March 12<sup>th</sup> 2013</b>				
03:30-04:00	Material preparation			ANR team and all participants
04:04:45	practice 2:	ANR field activities		
08:00-11:00	Disussing on filed work	Talking about Field activities and observations		ANR team and all participants
11:00-12:00	Travel back and lunch			
01:30-02:30	Group work			All participants
02:30-03:00	Presentation			All participants
03:00-03:30	Break			
03:30-04:00	Lecture 4 – Monitoring ANR	Introduction of proposed monitoring protocols	Lecture,presentation, and distribution of formats	Mr. NhakSiveun
04:00- 04:30	Lecture 5. Fire Management	Explaining basic fire management principles and procedures.	Powerpoint presentation, Lecture/Discussion	Mr. Keth Nang Mr. Kim Sobon
04:30-05:00	Prepare tools and lodging boards (i.e. pressboards)	Sharpen tools, tie ropes on pressboards, adjust ropes as needed	Preparation	Trainees (with advice from trainer)

<b>DAY 3: March 13<sup>th</sup> 2013</b>				
<b>TIME</b>	<b>ACTIVITY</b>	<b>CONTENTS</b>	<b>METHODOLOGY</b>	<b>RESPONSIBLE PERSONS</b>
07:30-08:00	Travel to ANR Model site			ANR team and All participants
08:00-10:00	Field Work 3	Establish firebreak	Dig out all fire-prone material in fire break	Trainees (guided by trainer)
10:00- 10:30	Break			

10:30-12:00	Group Discussion of Field Work	Description of field work conducted and relevant observations	Discussions	Trainees/Trainer
12:00-	Lunch and close training session			Forest Agency Officer