INTEGRATED PROTECTED AREA CO-MANAGEMENT (IPAC)

REPORT ON
BAMBOO PROPAGATION, CULTIVATION,
MANAGEMENT AND
SKILL DEVELOPMENT TRAINING

November 03 - 05, 2009

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Venue: Bamboo Shade, Pirgacha, Madhupur Organized By: Bangladesh Forest Research Institute (B.F.R.I.) and Oasis Transformation Limited (OTL)

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REPORT SUMMARY

This report describes the training program on bamboo propagation, cultivation, management and skill development conducted by Oasis Transformation Ltd. and Bangladesh Forest Research Institute. The goals for the three day training were to maximize resource use, training for the trainers-to understand bamboo propagation, cultivation and management so that they can train others and practically apply in fields to maximize bamboo resources and develop a sustainable bamboo supply chain which will be economically benefiting for the poor. In addition it will be focused on awareness creation for income and employment opportunities in targeted protected area.

This report details the results and findings from the training which was successfully held at Pirgacha in Madhupur during November 03-05, 2009.

OBJECTIVES

Bamboo propagation, cultivation and Management

The outcome of training is to have an overall understanding on bamboo propagation, cultivation and management, create optimize income in targeted protected area and connect Madhupur bamboo resource base into Nilphamari Factory for developing a bamboo supply chain through nursery, proper cultivation and management. Product site species matching, sound bamboo resource management and specific propagation strategies will be other important objectives to be achieved during the course.

Skill Development

The training aims to impart knowledge and develop skill sets to people involved in bamboo sector, in the fields of production, processing and management. Besides focusing on awareness creation for optimizing income and employment generation, technical skill development will be emphasized.

COURSE CONTENTS

BAMBOO PROPAGATION, CULTIVATION AND MANAGEMENT

- Description of bamboo and methods of bamboo propagation
- Preparation of propagation bed
- Practical on (i) rhizome collection, (ii) culms cutting (ii) layering and branch cutting techniques
- Bamboo clump management, rehabilitation and harvesting
- Bamboo clump management: removal of (i) dead and dry culms (ii) diseased culms (iii) cleaning and application insecticide, fungicide and fertilizer
- Field demonstration on planting bamboo propagules.

SKILL DEVELOPMENT

- Ways and techniques to make slither from bamboo culms
- Ways and techniques for weaving slithers
- Develop bamboo basketry products
- Develop bamboo tray, glasses
- Lesson on bamboo treatment.

PARTICIPANTS AND OBSERVERS

BAMBOO PROPAGATION. CULTIVATION AND MANAGEMENT TRAINING

Total 22 participants attended in bamboo propagation, cultivation and management training including Madhupur cluster field staffs, Oasis Transformation Ltd. Among the participants, there were sixteen from village bamboo growers, two from IPAC Madhupur staffs and two from Oasis Transformation Ltd.

Governance officer of IPAC was present on 2nd day of training as an observer.

SKILL DEVELOPMENT TRAINING

Total 18 participants attended in the training. All of them were from local communities who have some skill on bamboo based products.

Two attended in training from Oasis Transformation Ltd as observer.

COURSE INAUGURATION AND CLOSING SESSIONS

The course was inaugurated by Nekbar Ali, Business Development Assistant, Oasis Transformation Ltd. He clarified the goal of IPAC project, objectives of the training and wished for a useful and fruitful training. The inauguration program was conducted by Md. Kamruzzaman (Kamrul), Business Development Assistant, Oasis Transformation Limited/IPAC.

In the closing session, Mr. Abdul Malek shared his feelings on behalf of participants. He promised to develop a nursery in his own land and requested other participants to develop bamboo nursery as well.

Mr. Nurul Islam, Research Officer, B.F.R.I., trainer of the training, promised the participants for any kind of help in implementing the lessons learned.

The training was formally closed by Mr. Kamruzzaman, Oasis Transformation Ltd. and IPAC.

SUMMARY OF TRAINING

Day I: 03rd November, 2009

Introductory Session

• Introduction of trainers

- Introduction of participants
- Knowledge sharing on traditional system of bamboo cultivation and management.

Description of bamboo and methods of bamboo propagation

- Ways and techniques on description of bamboo and methods of bamboo propagation.
- Question and answer on bamboo propagation.

Practical on (i) culms cutting (ii) layering and branch cutting techniques

Visited 3/4 bamboo clumps near training venue. Collection of 200 branch cuttings, culms cuttings and few rhizomes by all participants as per instructions of trainer.

Preparation of propagation bed

- Theoretical knowledge on propagation bed.
- Practical work on preparation of propagation bed.
- Insertion of all collected branch cuttings, culms cuttings, rhizomes into the propagation bed.

Plantation

Plantation of 10/12 bamboo species around training venue by all participants.

Reinforcement of practical work

Finally day ended by reinforcement of all work done in that day.

Day 2: 04th November, 2009

Short speech of Governance Officer (IPAC)

Mr. Utpal Datta had short speech for the participants. He articulated the purpose of training and requested all to apply everything from lessons after the training.

Bamboo clump management, rehabilitation and harvesting

- Brief of techniques and ways on bamboo clump management and harvesting
- Clumps visit of all participants. Practical work-bamboo clump management: removal of (i) dead and dry culms (ii) diseased culms (iii) cleaning and application of insecticide.

Reinforcement

- Questions and answers of all work and lesson in that day.
- Closing dialogue from the trainer.

Day 3: 05th November, 2009

Skill development training

- Ways and techniques to make bamboo basket
 - How to make slithers from bamboo culms
 - How to weave from slithers
 - How to make shape for basket
- Practice of slithering from culms
 - Practical work on to make slithers from bamboo culms
 - Technical assistance from trainers
- Weaving practice
 - Practical work for participants onto weave from slithers
 - Technical assistance from trainers
- Practical work on making bamboo basket
- Ways and techniques to make bamboo tray and glasses
- Presentation of making bamboo tray and glass by trainers
- Practical work for participants on tray and glass
- Discussion on treatment of bamboo slithers and others raw materials.

CONCLUSION

Throughout the training B.F.R.I. presented clear training objectives. Trainers reviewed these objectives with the participants to assess new knowledge on bamboo propagation and management. The goals of the training were successfully accomplished.

As the training was on a different subject, the participants were pleased and promised to train other people regarding this matter.

After completing the three day training following outcomes have been accomplished to a basic level:

- Understanding the value of bamboo cultivation and management
- Understanding clear concept of propagation and method as well
- Understanding the income generation opportunities through bamboo process.

RECOMMENDATIONS

The following recommendation has been emerged based on the above outcomes of the training program:

- At least two nurseries should be developed in Madhupur area with a capacity to produce at least 4000 seedlings per year.
- Multiply the number of trained bamboo growers who will be connected with Nilphamari plant through supply chain: at least 100 people are targeted.
- Monitoring of best practice of bamboo propagation, cultivation and management, ensuring cost effective method of propagation, development and implementation of a monitoring plan to ensure execution of best practice following training program.
- Producing "Best Practice Manual for Bamboo" etc., similar to the guide book that WorldFish has made for IPAC.
- Connection with AFE with a view to linking supply with the exporters they are working with.
- Connect other NGO's exporters for various weave based bamboo products.
- Establishment of OTL preprocessing unit with 10 and 30 workers, all should be trained on best practice pre-processing, including visit Agartala to assess latest pre-processing methods for application in Modhupur.

APPENDEX I

Final Training Schedule

Bamboo propagation, cultivation and management

03.10.2009

09.00 - 09.30am: Introductory session.

09.30 – 11.30am: Techniques and ways on description of bamboo and methods of

bamboo.

11.30 – 01.30pm: Working out on preparation of propagation bed.

01.30 - 02.30pm: Break.

02.30 – 04.30pm: Working out on (i) rhizome collection, (ii) culms cutting, (ii) layering

and bran cutting techniques.

04.30 – 05.00pm: Discussion class – reinforcement of practical work.

04.10.2009

09.00 – 10.00am: Techniques and ways on bamboo clump management, rehabilitation and harvesting.

10.00 – 01.30pm: Working out on bamboo clump management: removal of (i) dead and dry culms (ii) diseased culms (iii) cleaning and application insecticide, fungicide and fertilizer.

01.30 - 02.30pm: Break.

02.30 – 04.00pm: Field demonstration on planting bamboo propagules. 04.00 – 05.00pm: Discussion class – reinforcement of practical work.

05.00 – 05.30pm: Thanks giving and closing.

Skill development training

05.10.2009

09.00 – 09.30am: Introductory session.

09.00 – 10.00am: Ways and techniques to make bamboo basket.

10.00 – 11.00am: Practical work and group discussion on basket making.

11.00 – 11.30am: Ways and techniques to make bamboo tray. 11.30 – 12.30 : Practical work and group discussion on tray. 12.30 – 01.00pm: Ways and techniques to make bamboo glasses.

01.00 - 02.00pm: Break.

02.00 – 03.00pm: Practical work and group discussion on making glasses.

03.00 – 03.30pm: Treatment lesson on bamboo process.

03.30 - 04.30pm: Review of all lessons.

APPENDIX II

List of Participants

Participants List
Bamboo propagation, cultivation *and* Management Training
Madhupur (03-11-09 to 04-11-09)

SL NO.	NAME	ADDRESS
1.	Md. Abdul Malek	Chapaid
2.	Md. Nosor Ali	Hagurakuri
3.	Lantosh Mrong	Bhutia
4.	Md. Abul Hossain	Aron khola
5.	Sandhaya Risil	Chunia
6.	Lorenge Maraf	Bhutia
7.	Bimol Mrong	Bagadoba
8.	Uzzal Chisam	Pirgacha
9.	Primus Paham	IPAC/Madhupur
10.	Narayan Barman	Pirgacha
11.	Mitin Marak	Bagadoba
12.	Parbati Dafo	Bhutia
13.	Misti Mri	Bhutia
14.	Alpana Risil	Bhutia
15.	Asa Daru	Chunia
16.	Pramila Nekla	Pirgacha
17.	Austina Chiran	Pirgacha
18.	Momota Rani Barman	Pirgacha
19.	Anjoni Risil	Pirgacha
20.	Sudipta Chisan	Chunia
21.	Md. Kamruzzaman	Oasis/IPAC
22.	Nekbar Ali	Oasis/IPAC
Traine	rs	
1.	Md. Nurul Islam	B.F.R.I
2.	Md. Monaem	B.F.R.I
Observer		
1.	Utpal Datta	IPAC

Participants List Bamboo Skill Development Training Madhupur 05-10-2009

SL NO.	NAME	Address	
1.	Uzzal Chisam	Pirgacha	
2.	Sunil Barman	Pirgacha	
3.	Harun Dalbat	Sabakchana	
4.	Trebit Chiren	Pirgacha	
5.	Niher Nakrek	Pirgacha	
6.	Sutti Mri	Pirgacha	
7.	Utpala Chiran	Pirgacha	
8.	Madhuri Chiran	Pirgacha	
9.	Prabir Nakrek	Baniria	
10.	Mitna Nakrek	Pirgacha	
11.	Lona Dalbat	Hagurakuri	
12.	Biplop Nakrek	Pirgacha	
13.	Shefali Barman	Pirgacha	
14.	Asa Daru	Chunia	
15.	Zedmi Mri	Pirgacha	
16.	Kanchan Hagidak	Kanaria	
Trainers			
1.	Bablu Nakrek	Pirgacha	
2.	Austina Nakrek	Pirgacha	
Obser	Observer		
1.	Md. Kamruzzaman	Oasis/IPAC	
2.	Nekbar Ali	Oasis/IPAC	

APPENDIX III

Pictures

















