

Ecosystem Services Improvement Program

Training program on

**Lac Cultivation for Livelihood Generation and Biodiversity
Conservation for the Local Communities of ESIP Areas
(Villages under Marwahi Forest Range) of Chhattisgarh**

14th October 2019

**Venue: Baans Paraskaran Kendra, Danikundi in Marwahi Forest
Range**



Organized by:

Indian Council of Forestry Research and Education, Dehradun

**Training Report on Lac Cultivation for Livelihood Generation and Biodiversity Conservation
for the Local Communities of ESIP Areas (Villages under Marwahi Forest Range) of
Chhattisgarh**

Dated: 14th Oct 2019

Venue: Baans Paraskaran Kendra, Danikundi, Marwahi Forest Range

Villages covered: Banshital and Danikundi

No. of participants attended the training: 36 (10 female and 26 male)

General observations:

i. Course Objectives: To generate awareness and capacity building of the local communities on Lac Cultivation for Livelihood Generation and Biodiversity Conservation. Detailed programme schedule is enclosed in Annexure I.

ii. Training Kits: Brief note on lac cultivation were provide to the participants along with pen and notebook.

iii. Resource Persons: The training programme was organized at Baans Paraskaran Kendra, Danikundi. Highly experienced subject matter specialist provided information on lac cultivation step, pest control, market linkages and its by products, group formation. Dr. Nanita Berri, Head & Scientist E, SFM & AF division, TFRI and Shri Saurav Dubey, Senior Technical Officer, TFRI are the resource persons in the training programme.

iv. Training Methodology: Training methodology includes class room lectures, experience sharing and group discussion.

The local communities/ participants have shown keen interest during the training programme. All the participants actively participated in all the sessions of the training programme. List of the participants is enclosed as Annexure III. Interactive session was also arranged with participants to solve their queries and to get their feedback.

Following suggestions given by the participants are as follows:

- Participants suggested that the duration and frequency of the training programme should be increase along with exposure visit to be added in the future training programme.

- Field level demonstration in personal field
- Provision of lac seed to be provided and training on by-product of lac to be organized at the village
- Market linkages for selling by products made of lac
- Pest control and management for lac cultivation and other crops to be included in the training.

Summary of the feedback is enclosed as an Annexure IV

Way Forward: This training programme has sensitized 36 local communities including farmers, SHG members, Sarpanch, Van Samiti Adyaksh and direct beneficiaries. Participants showed determination in incorporating the knowledge received from this training programme in their own field. It was also noted that participants were keen to learn the various by-product especially bangles made from lac. Participants suggested to organized field demonstration in their personal field for better understanding of lac culture. Demand for the provision of lac seed was also seek by the participants. It was also felt that there is need to generate more awareness among farmers on SLEM Best Practices.

**Training Programme on Lac Cultivation for Livelihood Generation and Biodiversity
Conservation for the Local Communities**

Schedule of Training

Time	Topic	Moderator
9:00-9:30 AM	Participants Registration	
9:30-10:00AM	Opening Session <ul style="list-style-type: none"> • Introduction by participants • Overview of ESIP and introduction to training programme by Dr. Nivedita Mishra Thapliyal, Consultant, ICFRE, Dehradun • Introductory remarks by representatives of CG Forest Department and representative of Gram Panchayat • Vote of thanks by Dr. Vikas Vatsa, Consultant, ICFRE, Dehradun 	
10:00-10:30AM	Tea break and group photo	
10:30-11:30 Noon	Introduction to lac and step involved in lac cultivation Questions & Answers session	Dr. Nanita Berri, Head & Scientist E, TFRI
11:30AM-12:30PM	Pest control on host tree Questions & Answers session	Dr. Nanita Berri, Head & Scientist E, TFRI
12:30PM-01:30PM	Market linkage and by-product of lac Questions & Answers session	Dr. Nanita Berri, Head & Scientist E, TFRI
1:30-2:30PM	Lunch	
2:30-4:30PM	Hands on training in the field and group formations Questions & Answers session	Dr. Nanita Berri, Head & Scientist E, TFRI
4:30-4:45PM	Tea Break	
4:45-5:30PM	Wrap up and vote of thanks	Representative of SFD and Gram Panchayat Dr. Nanita Berri, TFRI Dr. Nivedita Mishra Thapliyal and Dr. Vikas Vatsa, Consultant, ICFRE, Dehradun

Minutes of Training Program

Indian Council of Forestry Research and Education (ICFRE) is implementing Ecosystem Services Improvement Project (ESIP) in the states of Chhattisgarh and Madhya Pradesh and mainly focusing on upscaling of Sustainable Land and Ecosystem Management (SLEM) best practices in states of Chhattisgarh and Madhya Pradesh. Lac Cultivation for Livelihood Generation and Biodiversity Conservation is one of the SLEM best practices shortlisted for upscaling in ESIP area of Chhattisgarh. In this connection ICFRE had organized a one-day training program for the local communities of Danikundi and Banshital villages on 14/10/2019 at Baans Paraskaran Kendra, Danikundi of Marwahi Forest Range of Bilaspur district. Total 36 local communities (10 female and 26 males) from Danikundi and Banshital villages actively participated in the program.

Dr. Nanita Beri, Head & Scientist E, SFM & AF division, TFRI explained the step involved in lac cultivation and pest control measures to be adopted in host tree. Interaction was also held with the participants on problems faced in lac cultivation. Participants wanted to know the pest control measures in lac cultivation. She stressed on how lac cultivation would help farmers to double their income. Market linkages and its byproduct was also highlighted during the training session. Participants also discussed their respective status of lac grown in their personal field.

Dr. Nivedita Mishra Thapliyal, Consultant ESIP-ICFRE described the activities of ESIP project and role of ICFRE in its implementation. She explained different SLEM Best practices and its benefits. She also thanked TFRI and team for their interest and cooperation for ESIP project in the region.

Dr. Vikas Vatsa, Consultant ESIP-ICFRE proposed formal vote of thanks to all delegates and participants for their presence and successful organization of the training program.

List of Participants

Village: Banshital and Danikundi

S.No.	Name	Village	Contact Number
1.	Smt Rambati Bai w/o Purusottom	Banshital	
2.	Smt Ram Bai w/o Amol Singh	Banshital	
3.	Smt Deepkumari w/o Suresh kumar	Banshital	
4.	Smt Usha Bai w/o Chai Singh	Banshital	7773030971
5.	Smt Devbati w/o Mulchand	Danikundi	
6.	Smt Adhiniya Bai w/o Mohan	Danikundi	
7.	Shri Chan Singh Sarota s/o Rebalal	Banshital	7773030971
8.	Shri Kanhaya s/o Ram Prasad	Danikundi	7617291097
9.	Shri Suresh Singh s/o Ganga Ram	Banshital	8889410927
10.	Shri Kalyan Singh	Danikundi	6261951343
11	Shri Uday Singh s/o Mahadev	Banshital	7746959573
12	Smt Sudhrat w/o Mannulal	Danikundi	
13	Shri Surendra Singh	Banshital	8849831297
14	Shri Ganesh Mako	Banshital	8889782060
15	Shri Mulchand s/o Ram Das	Danikundi	
16	Shri Narayan s/o Ram Singh	Danikundi	7067639858
17	Shri Amol Singh s/o Samay Lal	Banshital	
18	Shri Jhasiram s/o Marotam Singh	Banshital	9926481986
19	Shri Man Singh s/o Baichan Singh	Banshital	8966966995
20	Shri Pahalwan Singh Pota s/o Safelal	Banshital	
21	Shri Lal Singh s/o Bhikam Singh	Banshital	
22	Shri Ful Singh s/o Suklal	Banshital	
23	Shri Lal man s/o Ramaktar	Danikundi	
24	Shri Bihari Singh s/o Parbal Singh	Naka	8965058423
25	Shri Khalan Singh s/o Amol Singh	Banshital	
26	Shri Gulab Singh s/o Ram Singh	Banshital	
27	Shri Rotam Singh	Banshital	9691359423
28	Shri Puraj Singh	Banshital	9174437098
29	Shri Bhawan Singh	Banshital	
30	Shri Purosottam s/o Ram Singh	Banshital	9981492833
31	Shri Lal Singh s/o Baighal	Banshital	
32	Shri Gayan Singh	Danikundi	7879178719
33	Smt Chandra bati w/o Santosh Singh	Banshital	
34	Smt Fulmati w/o Sudhar Singh	Banshital	
35	Smt Ful Kuwar w/o Chandra Singh	Banshital	
36	Shri Mulchand	Banshital	

Glimpse of Training Programme



ANNEXURE IV

Feedback of Lac Training in Danikundi Village

Sl.No	Name	Village	Contact Number	General Training Facility	Training Material	Training Resources	Training Information	What would you like in training	What did you learn from training	Would you like to apply this on your Field	Any Suggestion
1	Shri Rotam Singh	Banshital	9691359423	Very Good	Good	Good	Good	Steps involved in lac cultivation	How to maintain lac insect and pest control measures	Yes	Provide high quality insect for lac cultivation
2	Shri Narayan Singh	Danikundi	7067639858	Very Good	Very Good	Very Good	Very Good	Caring and protection of lac through group formation	By-product of lac	Yes	Information on high quality seed for lac cultivation
3	Shri Bhan Singh	Banshital	8966966995	Very Good	Very Good	Very Good	Very Good	Lac cultivation in different tree species	Steps involve in lac cultivation	Yes	Information on high quality seed for lac cultivation
4	Shri Khalan Singh	Banshital		Very Good	Very Good	Very Good	Good	Lac cultivation in different tree species	Steps involve in lac cultivation	Yes	Duration of training days should be more
5	Shri Mulchand	Danikundi		Very Good	Very Good	Very Good	Very Good	Caring and protection from pest	Scientific method of lac cultivation	Yes	Resource material in easy and simple language
6	Shri Kalyan	Danikundi		Very Good	Very Good	Very Good	Good	Step wise guidelines for lac cultivation	Scientific method of lac cultivation	Yes	-
7	Shri Ganesh	Banshital	8889782060	Very Good	Very Good	Very Good	Very Good	steps in lac cultivation	Scientific method of lac cultivation	Yes	Field demonstration in farmers personal field

8	Shri Lalman	Danikundi		Very Good	Very Good	Very Good	Very Good	how to increase production of lac and its benefit	How to increase the production of lac	Yes	Lac cultivation through group formation
9	Shri Man Singh	Banshital		Very Good	Very Good	Very Good	Good	Byproduct of lac	group formation	Yes	Management of lac
10	Shri Amol Singh	Banshital		Very Good	Very Good	Very Good	Good	Byproduct of lac	Byproduct of lac	Yes	Follow up of lac training
11	Shri Purun Singh	Danikundi	9274437098	Very Good	Very Good	Very Good	Very Good	Spray of Pesticide and types of pesticides – Why, When and How	group formation	Yes	Provision of lac seed
12	Shri Kanhaiya	Danikundi	7617291097	Very Good	Good	Good	Good	Type of Host plants, Pruning of host trees- Why, When and How	group formation	Yes	Increase the duration of training
13	Shri Chan Singh	Banshital	7773030971	Very Good	Fair	Fair	Good	steps involve in lac cultivation	Different by-product of lac	Yes	-
14	Shri Surendra Singh	Banshital	8349831297	Good	Fair	Fair	Very Good	steps involve in lac cultivation	steps involve in lac cultivation	Yes	Follow up of the lac training for assessing the impact among the participants
15	Shri Uday Singh Sayam	Banshital	7746959573	Very Good	Very Good	Very Good	Very Good	Inoculation of lac	Inoculation of lac	Yes	Field level demonstration on Inoculation of lac
16	Shri Suresh Singh	Banshital	8889410927	Very Good	Very Good	Good	Good	Steps and operation of lac culture		Yes	-

17	Shri Lal Singh	Banshital		Very Good	Very Good	Good	Good	Pest management		Yes	-
18	Shri Purusottam Singh	Banshital	9981492833	Very Good	Very Good	Very Good	Very Good	By products of lac		Yes	-
19	Shri Gyan Singh	Danikundi		Good	Fair	Fair	Good	Scientific ways of lac cultivation		Yes	-

PERFORMANCE RATING OF PARTICIPANTS

S.no.	Name	Address	General Training Facility	Training Material	Training Resources	Training Information	Sum	MM	Average
1	Shri Rotam Singh	Banshital	5	4	4	4	17	20	85
2	Shri Narayan Singh	Danikundi	5	5	5	5	20	20	100
3	Shri Bhan Singh	Banshital	5	5	5	5	20	20	100
4	Shri Khalan Singh	Banshital	5	5	5	5	20	20	100
5	Shri Mulchand	Danikundi	5	5	5	5	20	20	100
6	Shri Kalyan	Danikundi	5	5	5	4	19	20	95
7	Shri Ganesh	Banshital	5	5	5	5	20	20	100
8	Shri Lalman	Danikundi	5	5	5	5	20	20	100
9	Shri Lal Singh	Banshital	5	5	5	4	19	20	95
10	Shri Amol Singh	Banshital	5	5	5	4	19	20	95
11	Shri Purun Singh	Danikundi	5	5	5	5	20	20	100
12	Shri Kanhaiya	Danikundi	5	4	4	4	17	20	85
13	Shri Chan Singh	Banshital	5	3	3	4	15	20	75
14	Shri Surendra Singh	Banshital	4	3	3	5	15	20	75
15	Shri Uday Singh Sayam	Banshital	5	5	5	5	20	20	100
16	Shri Suresh Singh	Banshital	5	5	4	4	18	20	90
17	Shri Lal Singh	Banshital	5	5	4	4	18	20	90
18	P Shri urusottam Singh	Banshital	5	5	5	5	20	20	100
19	Shri Gyan Singh	Danikundi	4	3	3	4	14	20	70

(Performance rating on the attributes done on scale of 0-5)

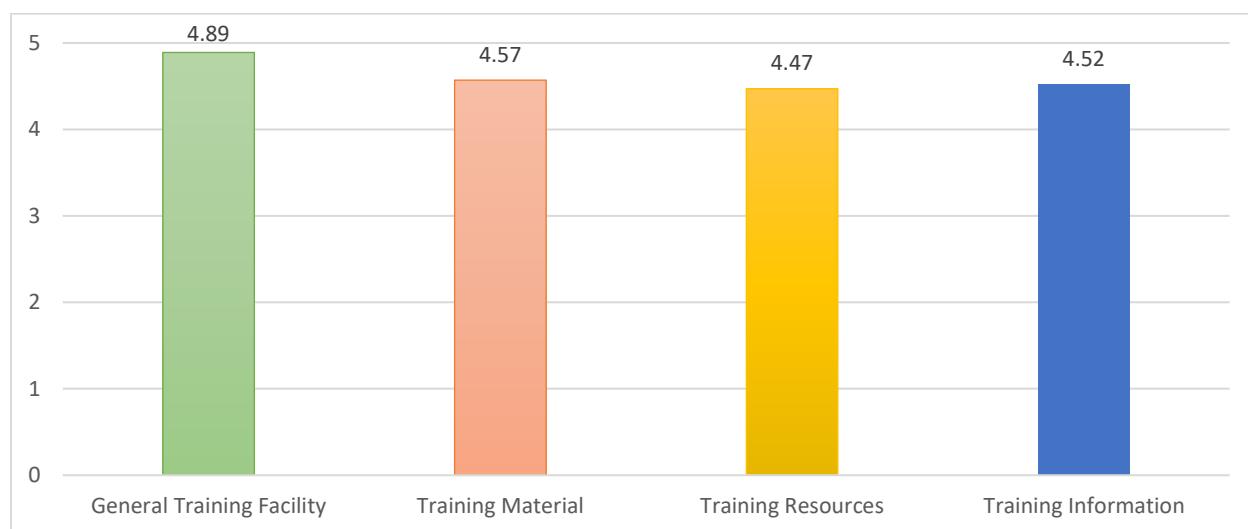
Consolidated Abstract and Summary of the Individual Feedback

#	General Training Facility	Training Material	Training Resources	Training Information
1	5	4	4	4
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	4
7	5	5	5	5
8	5	5	5	5
9	5	5	5	4
10	5	5	5	4
11	5	5	5	5
12	5	4	4	4
13	5	3	3	4
14	4	3	3	5
15	5	5	5	5
16	5	5	4	4
17	5	5	4	4
18	5	5	5	5
19	4	3	3	4
Sum	93	87	85	86
Average	4.89	4.57	4.47	4.52

Overall average rating of the training programme: 4.67/5.0

Topic	Score
General Training Facility	4.89
Training Material	4.57
Training Resources	4.47
Training Information	4.52
Average	4.61

Scale of Ranking: 1 - Poor, 2 - Satisfactory, 3 - Fair, 4 - Good, 5 -Very Good



Major Findings of Feedback

- Duration of training should be increased
- Field level demonstration in personal field
- Follow up training to be organised so that the beneficiaries can discuss their problems if any arises during lac cultivation.
- Provision of lac seed
- Field level demonstration on Inoculation of lac
- Market linkages for selling by products of lac