

Quarterly Report

EcoHimal Nepal

Project title: Climate Change Adaptation in Solukhumbu District	Project code:
Report by: EcoHimal Nepal	Month: November
Date:	Year: 2019

A. Activities:

Following **activities** have been conducted from 16th July, 2019 to the reporting period;

1. Coordination and Cooperation with local government:

Coordination with of Thulung Dudhkoshi Rural Municipality (TDRM) is regularly carried out. Satellite nurseries are joint project and local government is playing a vital role to functionalize and run it. TDRM has organized an agriculture exhibition program where DAFRC and EcoHimal actively participated.

Participation in Agricultural Exhibition Programme:

EcoHimal Nepal and Deusa Agro-Forest Resource Center (DAFRC) actively participated in Agricultural Exhibition Programme during Rural Municipality Festival organized by local government from 21st November to 24th November, 2019. We have placed a stall in the exhibition for organic coffee promotion and displayed following items;

- coffee seedlings;
- coffee tree with greens cherry;
- coffee parchment;
- green beans;
- roasted coffee beans;
- information and reading materials about coffee cultivation, harvest and post-harvest;
- freshly prepared hot coffee for guest and visitors interested to test it.

Along with coffee, the exhibition was accompanied by demonstration of high value plants, crop and herbs such as ginger, rosemary, oregano, thyme, mint, cardamom, banana, macadamia, hazelnut, orange etc.

Information of tree crops from seedlings preparation to harvest was provided to the farmers.

Also, a model kitchen garden was developed and displayed in the exhibition. Information on model kitchen garden preparation and its management was provided to the farmers. Cardamom cultivation books, brochures and agricultural related informative materials were distributed to the interested farmers. The exhibition was observed by federal parliament member Honourable Mr. Hem Kumar Rai, state parliament member honourable Mr. Uttam Basnet and many distinguish guests.

As a result of an outstanding exhibitor in the programme, local government accredited DAFRC with letter of appreciation.

- 2.** Coordination with Mapya Dudhakoshi rural municipality ward number 6 office is done regularly. Orientation has been done to local resource person on bio intensive pit preparation and 30 orange and 16 macadamia seedlings has been

planted. Winter plantation is planned and coordinated with ward chair person. Regular monitoring of the tree crop planted last year has been done and provided necessary feedback. Sonam a JTA based in Khiraule has done cross monitoring of pit preparation and plantation.

3. Coordination with satellite nurseries:

To extend tree crops programme especially satellite nurseries in 1 to 8 wards of Thulung Dudhkoshi Rural Municipality, coordination with all wards offices has been carried out. Monthly day of training to the farmers at satellite nursery has been fixed with 6 satellite nurseries. The day of monthly training have been scheduled in accordance to the seasons and local farmers' needs in close coordination with respective ward office committees. Table 1 shows the individual training day of each nursery.

Table 1: Detail of monthly training planning

S.N.	Description	Day for monthly training	Responsibility to organize training	Facilitation responsible
1	Satellite nursery, Mugli	27 th of each month	Respective AFRC sub-committee	DAFRC
2	Satellite nursery, Kangel	26 th of each month	Respective AFRC sub-committee	DAFRC
3	Satellite nursery, Panchan	25 th of each month	Respective AFRC sub-committee	DAFRC
4	Satellite nursery, Jubu	2 th of each month	Respective AFRC sub-committee	DAFRC
5	Satellite nursery, Lokhim	To be decided	Respective AFRC sub-committee	DAFRC
6	Satellite nursery, Deusa-7	29 th of each month	Respective AFRC sub-committee	DAFRC
7	DAFRC	28 th of each month	Respective AFRC sub-committee	DAFRC

4. Monitoring of satellite nurseries and discussion with members of ward committee for action plan preparation

All 6 satellite nurseries monitoring has been carried out and discussed with nursery management committee for further planning of nurseries and capacity building of local farmers. The details are as follows:

Table 2: Monitoring and discussion

S.N.	Activities conducted	Achievements	Remarks
1	Ward no 9: Lokhim	<ul style="list-style-type: none"> Received guarantee paper of 5 ropani - 508 Square meters - land Fodders and fruits nurseries established - Epilipi, Mendola and fruits seedlings are produced in nurseries. Construction of plastic tunnel almost completed. A committee for satellite nursery 	

		<p>formed and has been mobilized</p> <ul style="list-style-type: none"> • Construction of plastic pond completed 	
2	<p><u>Ward no 5: Jubu</u> Regular follow- up, monitoring, orientation and training on satellite nurseries establishment</p> <p>Regular coordination with local government</p>	<ul style="list-style-type: none"> • Proposal submitted to ward office regarding satellite nursery management, appointment of nursery caretaker, trainings conduction, necessary materials for nurseries establishment and store construction. • Planned seedlings and seeds procurement and establishment of nurseries. • Monthly training day finalized • plastic tunnel Constructed 	
3	<p><u>Ward no 2: Kangel</u></p> <p>Regular coordination and meetings with ward committee, lead farmers and stakeholders</p>	<ul style="list-style-type: none"> • Provided feedbacks and suggestions to the nursery caretaker and management committee after monitoring of the nurseries • Planned seedlings and seeds procurement and establishment of nurseries • Training date finalization • Training provided to AFRC sub-committee members and nursery care taker on local seeds collection and nurseries establishment techniques • Oriented nursery care taker about banana farming as shade tree-crop of coffee • Committee has received guarantee paper of land and has opened bank account 	
4	<p><u>Ward no 6: Mugli</u></p> <p>Regular coordination, meetings with ward committee and follow-up as well as close monitoring carried out</p>	<ul style="list-style-type: none"> • Provided feedbacks and suggestions to the nursery caretaker and management committee after monitoring of the nurseries • Planned seedlings and seeds procurement and establishment of nurseries • Training day finalized • Discussion on fencing construction for protection of tree crops and nurseries. • New nursery caretaker appointed 	
5	<p><u>Ward no 3: Panchan</u></p> <p>Regular coordination and follow up carried.</p>	<ul style="list-style-type: none"> • Provided feedbacks and suggestions to the nursery caretaker and management committee after 	

		monitoring of the nurseries <ul style="list-style-type: none"> Planned seedlings and seeds procurement and establishment of nurseries Training day finalized Training provided to AFRC sub-committee members and nursery care taker on local seeds collection and nurseries establishment techniques Nursery caretaker trained in banana plantation for the purpose of coffee banana intercropping 	
6	Ward no 7: Deusa Regular coordination and follow up carried.	<ul style="list-style-type: none"> Proposal submitted to ward office regarding satellite nursery management, appointment of nursery caretaker, trainings conduction, necessary materials for nurseries establishment and store construction Planned seedlings and seeds procurement and establishment of nurseries Monthly training day finalized Nursery caretaker trained in banana plantation for the purpose of coffee banana intercropping 	

After monitoring visit a current status report of the all 6 nurseries has been prepared. Details of current status is in table 3.

Table 3: Status of satellite nurseries

S.N	Activities conducted	Achievements	Remarks
1	Ward no 9: Lokhim	<ul style="list-style-type: none"> Fodders and fruits nurseries is established with more than 1,000 seedlings of vegetables, ipil-ipil, mendola and coffee plant. Store house is under construction in investment of nursery caretaker Planted apple, nectarines, peach, lemon and orange for mother plant Green house/Plastic tunnel is constructed. Plastic pond is fixed 	
2	Ward no 5: Jubu	<ul style="list-style-type: none"> Construction of green house is completed. Land labelling and site clearance for house construction has been completed. Nurseries of forest and fruits have been established. Seedlings of ipil-ipil, macadamia, peach and other fodders 	

		<p>species have been produced</p> <ul style="list-style-type: none"> • There are more than 2,000 seedlings of ipil-ipil, mandola and coffee in the nurseries • An agreement carried out with ward office to provide NPR 50,000.00 as remuneration of nursery caretaker • A commitment has been done from ward chairperson to produce more than 5,000 seedlings from the satellite nursery. 	
3	<u>Ward no 2: Kangel</u>	<ul style="list-style-type: none"> • Nurseries of fodders and forage established (seedlings of Ritha, peach, Sapindus mukorossi (ritha) also called soapbarry, epil-ipil, mendola). More than 1,500 seedlings of fruits, vegetables and fodders are in nurseries. • Rootstocks of peach about 80 are prepared. • Bank account opened • Registered 3 ropani of land for satellite nursery. • Guarantee paper (Manjurinama) has been received by ward office. • Construction of a green house completed • Construction of a plastic pond is completed 	
4	<u>Ward no 6: Mugli</u>	<ul style="list-style-type: none"> • Received Guarantee paper (manjurinama) of land • Construction of a green house completed • Construction of a plastic pond completed • Nurseries of fodders and forage established (seedlings of fodders especially ipi-lipil, Mulberry, Sapindus mukorossi (<i>Ritha</i>) and <i>Nevaro</i> (<i>Ficus rosenbergii</i>) are produced). • Rootstocks of peach around 90 are prepared. 	
5	<u>Ward no 3: Panchan</u>	<ul style="list-style-type: none"> • Land has been registered under ward ownership for satellite nurseries establishment • A green house has been established. • Forest and fruit nurseries have been established • 1,200 banana seedlings have been hardened and prepared for distribution • Seedlings of coffee have been produced. Moreover, seedlings of ipil-ipil, cauliflower, tomato etc. have been 	

		<p>prepared.</p> <ul style="list-style-type: none"> • Plantation of 20 saplings of moringa and 20 sapling of ritha (Sapindus mukorossi done • Sold 70 seedlings of moringa, 80 seedlings of Ritha and 200 seedlings of ipil-ipil and 50 seedlings of tomato 	
6	Ward no 7: Deusa	<ul style="list-style-type: none"> • Construction of plastic tunnel completed • Forest and fruit nurseries have been established 	

5. Subsidies by local government for satellite nurseries

Local government (ward office of respective DAFRC sub-committee) has provided subsidies to the satellite nurseries for better management. The detail is as follow:

Table 4: Subsidies by local government

S.N	Satellite nurseries	Ward office	Subsidies (in NPR)
1	Mugli	Ward no 6	200,000.00
2	Kangel	Ward no 2	150,000.00
3	Panchan	Ward no 3	150,000.00
4	Jubu	Ward no 5	0.00
5	Lokhim	Ward no 9	0.00
6	Deusa 7	Ward no 7	500,000.00
7	DAFRC	Ward no 8	400,000.00

6. Updated profile of planted fruits and nuts

Plant profiles with related farmers cultivating high value crops; fruits and nuts- have been prepared. This profile will be helpful to assess the feasibility on the basis of their peculiarity. All households have been visited to check seedlings of fruits and nuts. While creating profile, following activities were carried out;

- inspected pests and insect attack;
- measured the height of the plants;
- provided feedbacks and technical recommendations to farmers;
- and collected survival rate of seedlings

The plant profiles is in [Annex 1](#)

7. Supervision of Hazelnuts:

Regular supervision of Hazelnuts demonstration block is carried out by project staff. There is plan to provide fertilizers to the plants and intercropping before February 2020. During reporting period all plants are in dormant.

8. Physical upgrading of DAFRC

Physical upgrading of DAFRC has been done before the visit of Hong Kong GSIS school students in October 2019. To minimized and address constructive feedbacks of GSIS visit last year a year round hard work has been done and updated as much as possible.

The report on AFRC update by project manager is in [Annex 2](#)

The materials and assets purchased and managed for DAFRC is in [Annex 3](#)

9. Monitoring from The Glacier Trust: Monitoring of the project by Co-Director of The Glacier Trust Dr. Morgan was carried out in 11-18 October, 2019 for overall supervision of project activities in Solukhumbu.

10. Hongkong GSIS Students Visit:

As the continuation of exchange program, a team of 9 students and 2 teachers from German Swiss International School (GSIS), Hong Kong, visited Deusa village in the leadership of TGT co-director Dr. Morgan Phillips. They are the second group to DAFRC from GSIS. The students' trip was organized from 12 to 17 October 2019.

Preparation of different activities for students has been done and organized accordingly. Introduction of the Bio-intensive farming method, celebration of Dashian festival, exchange program with Deusa secondary school students, observation of AFRC activities, experience of local culture, custom and exchange of local knowledge and practice were the major activities. The trip was very successful and students were very happy to be there.

The detail report is in [Annex 4](#)

**Deusa Agro Forest Resource Center, Solukhumbu
Progress Report
July 16, 2019 to 31st December, 2019**

1. Physical upgrading of DAFRC:

Prioritizing the sound management during Hongkong GSI school students' trip in October 2019, physical upgrading of DAFRC was done.

- Dining hall constructed;
- 8 beds prepared;
- roofing of guest room and false ceiling fixed;
- water tap nearby bathroom and extra tap near kitchen constructed;
- improved office, kitchen and training hall;

At present, additional building in financial support of Thulung Rural Municipality is under construction. A construction committee has been formed for construction management. Local materials i.e. sand, stone, wood are at place.

2. Demonstration and farmers exposures

- Visit of 15 farmers involved in Prime minister Agriculture Modernization Program for learning sharing in DAFRC;
- study visit of 8 farmers (including ward chairperson of ward no 11) from Mandan Deupur Agro-Forest Resource Center, Kavreplanchowk;
- visits of local farmers in DAFRC organized – in total 104 farmers visited and exposed to improved farming techniques

3. Seeds/seedlings production and distribution

- Produced ground grass more than 3,000 seedlings;
- 3,300 fodders seedlings produced from forest nurseries;
- approx. 12,000 seedlings of fruits produced (Kiwi, banana, coffee, orange, etc.);
- 66 farmers are provided with seedlings of vegetables (cauliflower, cabbage etc) ;

4. Improved breeding of animal

- buffalo improved breeding (murra) – 23;
- goat improved breeding (Bital and Jaumuna Pari cross) – 77
- provided treatment services to 56 animals

5. Trainings/Orientations

- 27 farmers have been trained on orange/lemon farming
- 35 farmers have been trained on fruits plantation;
- 22 farmers have been trained on vegetable farming and nurseries establishment

6. Coordination and cooperation

Coordination with local government and concerned line agencies in district level is carried out regularly. Agriculture programs are implemented in close coordination and cooperation with Prime Minister Agriculture Modernization Program in Deusa.

B. Success stories

A commitment of EcoHimal Nepal to improve the management, physical infrastructure and logistics has been fulfilled. Coordination with DAFRC has been success and worked as per the plan. Food, accommodation, field visits and other logistics activities worked out without any substantial problem. The EcoHimal project management started its effort to improve the situation 6 months in advance with continuous follow-up. As an outcome the visit completed with great success and legacy of improvement established.

C. Difficulties

1. During this reporting period, in Nepal, is festive time; Dashain and Tihar. People remained engaged in celebration in festivals. So, major activities were not planned during this time.

D. Deviation from the working plan

N/A

E. Next steps

1. Institutionalization of satellite nurseries; plantation of seedlings, nurseries establishment etc.
2. Bio-intensive training
3. Winter season plantation
4. Training on various improved farming techniques
5. Hazelnuts weeding and manuring
6. Continuation of regular monthly farmers training