

Enhancing livelihoods of climate vulnerable communities adjacent to Bardia National Park through fruit tree plantation

Brief Report on Field Monitoring of Planted Fruit Plants

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Report Submitted To

The Nelumbo Charity Schulzestr. 21 13178 Berlin Germany

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In October-November 2021, with the financial support of The Nelumbo Charity, planting of fruit trees was done under the "Enhancing livelihoods of climate vulnerable communities adjacent to Bardia National Park through fruit tree plantation" project. On the occasion, 900 saplings were planted in the buffer zone of Bardia National Park, covering the communities that are most vulnerable to climate change. Technical knowledge was also provided for planting, sewage, irrigation and maintenance of the distributed plants. On-site monitoring was done this year regarding the progress of fruit tree planting. A brief report has been prepared in this regard.

1. Details of plants provided for plantation.

			Number of plants				
S.No	Name	Village	Lemon	Avocado	Moringa	Guava	Total
1	Sita Shahi	Shivapur	3	2	2	2	9
2	Krishna Tharu	Shivapur	3	2	2	2	9
3	Kali Bista	Hattisar	3	2	2	2	9
4	Laxmi Tharu	Hattisar	3	2	2	2	9
5	Hina Kumari Chaudhary	Hattisar	3	2	2	2	9
6	Ram Krishna Tharu	Hattisar	3	2	2	2	9
7	Nanna Bdr Adhikari	Hattisar	3	2	2	2	9
8	Mina Tharu	Hattisar	3	2	2	2	9
9	Prabhuram Tharu	Hattisar	3	2	2	2	9
10	Shanti Tharu	Hattisar	3	2	2	2	9
11	Belu Tharuri	Hattisar	3	2	2	2	9
12	Motilal Tharu	Hattisar	3	2	2	2	9
13	Radha Shahi	Hattisar	3	2	2	2	9
14	Santarani kumari chaudhary	Shivapur	3	2	2	2	9
15	Sangita Chaudhary	Shivapur	3	2	2	2	9
16	Somari Chaudhary	Shivapur	3	2	2	2	9
17	Gopalu Tharu	Shivapur	3	2	2	2	9
18	Mina Chaudhary	Shivapur	3	2	2	2	9
19	Ramesh Kumar Thani	Shivapur	3	2	2	2	9
20	Lauti Chaudhary	Shivapur	3	2	2	2	9
21	Man Singh Sunar	Shivapur	3	2	2	2	9
22	Nirmala Shahi	Shivapur	3	2	2	2	9
23	Pramila Chaudhary	Shivapur	3	2	2	2	9
24	Kalashram Chaudhary	Shivapur	3	2	2	2	9
25	Dipendra Tharu	Shivapur	3	2	2	2	9
26	Punaram Tharu	Shivapur	3	2	2	2	9
27	Gulram Tharu	Shivapur	3	2	2	2	9

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28	Madhu Jaisi	Shivapur	3	2	2	2	9
29	Tulsi Ram Tharu	Shivapur	3	2	2	2	9
30	Rupesh Kumar Tharu	Shivapur	3	2	2	2	9
31	Samjhana Darlami	Shivapur	3	2	2	2	9
32	Janaki Tharuni	Shivapur	3	2	2	2	9
33	Bhadrakala Upadhyaya	Shivapur	3	2	2	2	9
34	Janak Pd Acharya	Shivapur	3	2	2	2	9
35	Harke Jaisi	Shivapur	3	2	2	2	9
36	Jay Singh Sunar	Shivapur	3	2	2	2	9
37	Buddhiram Tharu	Shivapur	3	2	2	2	9
38	Sita Khatri	Shivapur	3	2	2	2	9
39	Tara Chhetri	Shivapur	3	2	2	2	9
40	Bishnudevi Mahatara	Shivapur	3	2	2	2	9
41	Gita Chaudhary	Shivapur	3	2	2	2	9
42	Pahalman Tharu	Shivapur	3	2	2	2	9
43	Shanti Chaudhary	Shivapur	3	2	2	2	9
44	Manisha KC	Shivapur	3	2	2	2	9
45	Ashmita Sunar	Shivapur	3	2	2	2	9
46	Laxmi Kumari Acharya	Shivapur	3	2	2	2	9
47	Saraswoti Chhetri	Shivapur	3	2	2	2	9
48	Khadga bahadur Sunar	Shivapur	3	2	2	2	9
49	Tara Sharma Rijal	Shivapur	3	2	2	2	9
50	Bini Pd Jaisi	Shivapur	3	2	2	2	9
51	Ram Pyari Tharu	Bandrahauwa	3	2	2	2	9
52	Purna Bdr Khadka	Bandrahauwa	3	2	2	2	9
53	Sushma Chaudhary	Hattisar	3	2	2	2	9
54	Laxmi Khatri	Shivapur	3	2	2	2	9
55	Man Bdr Chaudhary	Shivapur	3	2	2	2	9
56	Rajaram Tharu	Bandrahauwa	3	2	2	2	9
57	Til Bahadur Sunar	Bandrahauwa	3	2	2	2	9
58	Rangi lal Tharu	Hattisar	3	2	2	2	9
59	Krishna Mohan Singh	Hattisar	3	2	2	2	9
60	Mahesh pura Chaudhary	Hattisar	3	2	2	2	9
61	Binod Tharu	Shivapur	3	2	2	2	9
62	Jagat Prasad Tharu	Shivapur	3	2	2	2	9
63	Om Prakash Tharu	Kauraha	3	2	2	2	9
64	Nita Chhetri	Shivapur	3	2	2	2	9
65	Shivakala Jaisi	Shivapur	3	2	2	2	9
66	Lalita Acharya	Shivapur	3	2	2	2	9
67	Pramaja Acharya	Shivapur	3	2	2	2	9
68	Motilal Tharu	Shivapur	3	2	2	2	9
69	Belu Tharu	Shivapur	3	2	2	2	9
70	Jagat Prasad Rijal	Shivapur	3	2	2	2	9
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71	Narayan Kumar Yogi	Shivapur	3	2	2	2	9
72	Shrimati Puspa Kumari Yogi	Shivapur	3	2	2	2	9
73	Shanti Devi Shaha	Hattisar	3	2	2	2	9
74	Shushila Adhikari	Shivapur	3	2	2	2	9
75	Nira Kumari Budha	Shivapur	3	2	2	2	9
76	Sabitri Basnet	Shivapur	3	2	2	2	9
77	Chadani Kumari Upadhyaya	Hattisar	3	2	2	2	9
78	Balrani Chaudhary	Shivapur	3	2	2	2	9
79	Chetu Kumari Sharma	Hattisar	3	2	2	2	9
80	Radha Tharu	Hattisar	3	2	2	2	9
81	Raj Kumari Chaudhary	Shivapur	3	2	2	2	9
82	Chandrakala Jaisi	Shivapur	3	2	2	2	9
83	Bhagawani Tharu	Shivapur	3	2	2	2	9
84	Bir Bahadur Tharu	Shivapur	3	2	2	2	9
85	Pratiksha Tharu	Shivapur	3	2	2	2	9
86	Bhupendra Thapa	Shivapur	3	2	2	2	9
87	Saraswoti Tharu	Bandrahauwa	3	2	2	2	9
88	Khunti Tharu	Shivapur	3	2	2	2	9
89	Asharam Tharu	Shivapur	3	2	2	2	9
90	Lalita Kami	Shivapur	3	2	2	2	9
91	Lalit Shahi	Shivapur	3	2	2	2	9
92	Belti Tharuni	Bandrahauwa	3	2	2	2	9
93	Champu Tharu	Shivapur	3	2	2	2	9
94	Sita Chaudhary	Bandrahauwa	3	2	2	2	9
95	Junkala Dhital (Jaisi)	Shivapur	3	2	2	2	9
96	Hemanta Pd Acharya	Hattisar	3	2	2	2	9
97	Ram Bdr Chaudhary	Hattisar	3	2	2	2	9
98	Buddhi Darlami	Shivapur	3	2	2	2	9
99	Muna Kumari Sunar	Bandrahauwa	3	2	2	2	9
100	Phulram Tharu	Shivapur	3	2	2	2	9
	Total		300	200	200	200	900

2. Process and results of on-site monitoring

During the on-site monitoring, every house was visited and on-site monitoring was carried out. It was found that out of 100 families, 5 families closed their entire houses and went to India for employment. Among the farmers who planted seedlings, it was found that 86 families have grown lemons and sold some, 21 families have eaten the fruit of mango plants themselves, 22 families have dead avocado plants, 21 families have very good avocado plants and 78 families have grown Moringa well. Mango plants of about 60 families are bearing fruit.

Since the plants have grown well this year, it is believed that guava and lime will be produced well from next year. Avocado plants proved to be very difficult to grow. It has been found that the plant is dying after the goats eat the tops of the plants. The lime plants are also doing well and the yield is also good.





Overall about 73% of plants were observed to grow well. It was found that people have done well with the fertilizer and irrigation required by the plants. It was also seen that goats damaged plants because some people did not fence properly. The details of the plants seen from the field inspection are as follows.

	Species of Seedling	No of distribution	No of Grow well	
S.No				
1	Lemon	300	258	
2	Avocado	200	60	
3	Moringa	200	156	
4	Guava	200	180	
	Total	900	654	

Agro-forestry experts were also involved during plant monitoring. The experts are of the opinion that since avocado plants have failed to grow in large numbers, it would be reasonable to replant them with limes and mangoes. For this, Ujyalo Nepal has taken the policy of making necessary arrangements for replant.



Under this project, the farmers involved in the plantation of fruit trees were given accident insurance as well as joining the cooperative and participating in the savings and loan scheme. In this way, it has been found that 95 out of 100 families participating in the savings and loan scheme have been participating regularly. The good news is that none of our members have been involved in an accident so far during this period.