

The Rufford Foundation

Final Report

Congratulations on the completion of your project that was supported by The Rufford Foundation.

We ask all grant recipients to complete a Final Report Form that helps us to gauge the success of our grant giving. The Final Report must be sent in **word format** and not PDF format or any other format. We understand that projects often do not follow the predicted course but knowledge of your experiences is valuable to us and others who may be undertaking similar work. Please be as honest as you can in answering the questions – remember that negative experiences are just as valuable as positive ones if they help others to learn from them.

Please complete the form in English and be as clear and concise as you can. Please note that the information may be edited for clarity. We will ask for further information if required. If you have any other materials produced by the project, particularly a few relevant photographs please send these to us separately.

Please submit your final report to jane@rufford.org.

Thank you for your help.

Josh Cole, Grants Director

Grant Recipient Details	
Your name	Sanej Prasad Suwal
Project title	Diversity And Distribution Of Butterfly In Suryabinayak Municipality And People's Perception Towards Butterfly Conservation.
RSG reference	19294-1
Reporting period	6 months
Amount of grant	£4777
Your email address	Sanej100@gmail.com
Date of this report	August 22, 2017

1. Please indicate the level of achievement of the project's original objectives and include any relevant comments on factors affecting this.

Objective	Not achieved	Partially achieved	Fully achieved	Comments
To Prepare the checklist of Butterflies of Suryabinayak Municipality				Total of 104 species were observed.
To know people perception towards butterfly conservation				In total 947 households were surveyed. The results shows positive response towards conservation issues if undertaken in the area and are positive to implement butterfly conservation programmes in local level.
To prepare skilled manpower and to sensitize the conservation issues.				Total of 30 (20 students and 10 members of forest user groups) people were trained under field based training. Two butterfly watchers group one with students and second with FUGs were formed. People were sensitised through radio programme, newspaper article publication and through social media.
To encourage university students towards butterfly conservation				

2. Please explain any unforeseen difficulties that arose during the project and how these were tackled (if relevant).

- **Difficulty 1: To get permission letter**

Though permission was easily granted from district forest office, it was totally frustrating to get permission letter from Suryabinayak Municipality. Due to unavailability of head of department at the time it was so tedious to get permission from assistant head. Most of time he neglected the application saying he don't know whether he has right to give permission or not, also said they have never given such permission to date. At last I had to contact and get help from some people who are politically active at the area. Since, it was also time of local election and everyone was rushing to get the voters on their favour I took an opportunity to get permit letter from municipality committing to make some voters on their favour and help during election time. It was a bitter

experience of my life time. Politics is everywhere and we can't deny its dirty game even we don't want.

- **Difficulty 2: Questionnaire survey**

Unavailability of respondents was major problem during interview survey. We had carried out our survey from 10 am to 3 pm as per our plan. But the problem was we could not get enough respondents daily as our targeted numbers. Most of them were busy in farmlands and some left early for their official work. Later, we carried out questionnaire survey early morning from 8 – 10 am during morning and after 4 pm during evening time so that we could meet most of respondents and we succeeded on it also. However questionnaire survey took more days than our expected plan to complete.

- **Difficulty 3: Field based training**

We planned to undertake the field based training in May. But during that time most of the schools were taking new students for new session. Also examination was in the air. So, we decided to postpone our training to late June or beginning of July. To stick with the plan we then observed the annual plan of different secondary level schools and identified the feasible time. As per the plan we then successfully organised the programme in July.

3. Briefly describe the three most important outcomes of your project.

- **Outcome 1: Checklist of Butterflies of Suryabinayak Municipality**

During the 5 months of research in Katujne, Sipadol, Chittapol and Nankhel, Suryabinayak Municipality, Bhaktapur we observed and noted down the total species of 104. The checklist is in Table 1.

Table 1. List of Butterflies of Suryabinayak Municipality.

S.N.	Species Name	15	Common Flash
1	Bamboo Forester	16	common Grass Yellow
2	Bamboo Treebrown	17	Common Hedge Blue
3	Banded Tree Brown	18	Common Indian Crow
4	Bath White	19	Common Jay
5	Bevan's Swift	20	Common Jester
6	Blue Pansy	21	Common Map
7	Blue Tailed Jester	22	Common Mormon
8	Branded Swift	23	Common Sailor
9	Chocolate Pansy	24	Common Sergeant
10	Circe	25	Common Tiger
11	Common Brimstone	26	Common Windmill
12	Common Castor	27	Common Wood Brown
13	Common Evening Brown	28	Common Yellow Swallowtail
14	Common Five Ring	29	Creamy Sailor

30	Dark caerulean
31	Dark Clouded Yellow
32	Dark Grass Blue
33	Dark Himalayan Oakblue
34	Dark Judy
35	Eastern Courtier
36	Forget-me-not
37	Fulvous Pied Flat
38	Glassy Tiger
39	Gram Blue
40	Grand Duches
41	Great Blackvein
42	Great Eggfly
43	Great Mormon
44	Hill Jazebel
45	Himalayan Great Nawab
46	Himalayan Sergeant
47	Indian Cupid
48	Indian Dart!!
49	Indian Skipper
50	Indian Tortoiseshell
51	Jewel Four Ring
52	Jungle Bush Brown
53	Large Cabbage White
54	Large Hedge Blue
55	Large Silverstripe
56	Large Three Ring
57	Lesser Punch
58	Lilacine Bush Brown
59	Long Banded Silverline
60	Metallic caerulean
61	Mixed Punch
62	Mottled Emigrant
63	Nepal Skipper
64	Newari Three Ring
65	Orange Oak Leaf
66	Orange Punch
67	Orange Staff Sergeant

68	Painted Lady
69	Pale Cloude Yellow
70	Pale Grass Blue
71	Pale Hedge Blue
72	Pallas's Sailer
73	Paris Peacock
74	Pea Blue
75	Peacock Pansy
76	Plain Tiger
77	Popinjay
78	Punchinello
79	Red Admiral
80	Red Breast Jazebel
81	Red Helen
82	Red Lacewing
83	Restricted Demon
84	Slate Flash
85	Small Cabbage White
86	Small Grass Yellow
87	Spangle
88	Spotted Snow Flat
89	Straight Swift
90	Striped Blue Crow
91	Striped Tiger
92	Tailed Jay
93	The Broad Spark
94	Three Spot Grass Yellow
95	Tiger Brown
96	Tree Yellow
97	Water Hairstreak
98	Western Courtier
99	White Tufted Royal
100	Yellow banded Flat
101	Yellow Coster
102	Yellow Disc Oakblue
103	Yellow Pansy
104	Zebra Blue

- **Outcome 2: Formation of Butterfly Watchers Group in school level as well as community level**

As per our major goal and objective of this project we had trained with field based training to school students and representatives from forest user groups and form two major butterfly watcher groups representing school and forest user groups.

- **Outcome 3: Strengthened efforts towards butterfly conservation**

In this project we had produced butterfly conservation poster and checklist poster to promote butterfly conservation initiation. We installed poster mounting in Suryabinayak Municipality office, district forest office, Bhaktapur, Forest Department, Babarmahal, Nepal, Khwopa College, Bhaktapur. The information boards with photographs and relevant texts in the local Nepali Language will help to sensitise the local people on conservation need and will present a long term memento on the issue.

Meanwhile, the production of t-shirts with conservation info, bookmarks, e-calendar and information sharing in social media will commence a fruitful impression about the status of butterfly in Nepal and sensitise the concerned authorities about the activity.

4. Briefly describe the involvement of local communities and how they have benefited from the project (if relevant).

During the research commencement period we involved local person as field guide from respective place as per his/her time availability. We had provided local participants with research skills, methodologies and basic identification of butterfly species. They had improved knowledge and respect for wildlife in the area through our shared time.

The local participants on field based training also advanced considerable care to wildlife in their area.

5. Are there any plans to continue this work?

Yes, we have intended to carry forward this work and bring forth more activities on research and conservation of butterflies in overall landscape of Nepal.

6. How do you plan to share the results of your work with others?

We have already shared our results with university students, district authorities and national conservation stakeholders through butterfly conservation talks and in different social media and radio programme.

With data collected from the field, we would now write a journal article to share the outcomes to the scientific community.

7. Timescale: Over what period was The Rufford Foundation grant used? How does this compare to the anticipated or actual length of the project?

The grant was used for 5 months from March – July 2017. The actual length of the project has elongated than the anticipated length of the project. Questionnaire survey time period has extended to more than a month and field based training for

school level has to postponed to July due to busy schedule (new intake of students) and examination time period of most of schools.

8. Budget: Please provide a breakdown of budgeted versus actual expenditure and the reasons for any differences. All figures should be in £ sterling, indicating the local exchange rate used.

Item	Budgeted Amount	Actual Amount	Difference	Comments
1. Field Equipment	1676	1676	-	
2. Field Work	883.4	883.4	-	
3. Field based training and conservation awareness program	1060	1060	-	
4. Personnel				
4.1. Daily allowance for researchers (two people for 100 days)	809.8	809.8	-	
4.2. Daily allowance for Guide (one person for 100 days)	184	200	-16	Expenses for GIS expert and Data entry and data analyst was used to pay to local guide.
5. Communication	22.4	22.4	-	
6. Publication and media outlet	141.6	141.6	-	
Total	4777.2	4793.2	16	I managed this difference in budget from Active Citizens Youth Group, a local youth group of suryabinayak from which I managed to hire a guide during the field work.

9. Looking ahead, what do you feel are the important next steps?

The following are the important next steps:

- Continuation of monthly butterfly watching programme.
- Seasonal survey of butterfly status.
- Publication of Manual for Butterfly Watching.
- Sensitise and run conservation programme collaborating with governmental and non-governmental organizations ensuring community participation.
- Genetic level research of butterflies.
- Development of android based mobile application on butterflies of Nepal.

10. Did you use The Rufford Foundation logo in any materials produced in relation to this project? Did the RSGF receive any publicity during the course of your work?

The logo of Rufford Foundation was used during following activities:

- Field based training on butterfly conservation and conservation awareness campaign.
- Sharing workshop with university students.
- Poster publication.
- Colour mounting.
- T-shirt prints.
- Bookmarks.
- Radio programme.

11. Please provide a full list of all the members of your team and briefly what was their role in the project.

Team members:

- 1) Sanej Prasad Suwal (Principal researcher)
- 2) Mohana Matangulu (Field Researcher)
- 3) Suprim Prajapati (Field Researcher)
- 4) Suman Prajapati (Field Researcher)
- 5) Binod Prajapati (Field Guide)

As a principal researcher of this project I handled all the official tasks and documents keeping as well as to carry on the field work. Mr Suprim and Miss Mohana had joined the survey as researcher and they did great work assisting during the field work and to keep field data and data entry. Though Mr Suprim had left the survey group due to his abroad study program, Mr Suman has joined the team later and assists the whole survey. Mr Binod Prajapati has enrolled as a field guide.

12. Any other comments?

We hugely thank the Rufford Foundation for funding this project. We look forward to receiving similar support in the future as well.