

## The Rufford Foundation

### Final Report

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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](mailto:jane@rufford.org).

Thank you for your help.

**Josh Cole, Grants Director**

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Grant Recipient Details	
Your name	Ranjit Pandey
Project title	Butterflies and climate change: development of a community based conservation and monitoring
RSG reference	16367-1
Reporting period	Final
Amount of grant	£4881 (£4930 before tax)
Your email address	<a href="mailto:ranjit.pandey@okstate.edu">ranjit.pandey@okstate.edu</a>
Date of this report	4/19/2017

**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
baseline data on habitat, distribution, and diversity of butterflies along an altitudinal gradient				
published illustrated butterfly checklist, pamphlets				
Conservation education to locals, K-12 students, and visitors				
establish three permanent plots				We have established three permanent plots and carried out three field studies within the same plots. I have been in contact with the personnel from different conservation organisations so that the plot could be surveyed at least once a year for 9 more years. But I still don't have conformation from any of those organisations.
Training on butterfly survey and monitoring protocols				The training was scheduled for all of the field visits but couldn't complete the training since none of the conservation committees are active nowadays. There are no one in most of the villages since because houses are destroyed by the earthquake.

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

First and most important issue during the project implementation was lack of people's participation. Langtang is one of the hard hit areas by the devastating earthquake back in 2015. There are only few people in the villages and their priority was on reconstruction. Similarly, weather remained another obstacle for the field study. We could not conduct the field study twice due to incessant rain, even though we were in project area.

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

a) The result of the study is being published in a reputable journal (in press), hopefully, it will be published within a month.

b) We accomplished a study of a mountain system which was not studied before and it will be a baseline for future study.

c) Public awareness (via school education program, focal group discussion, and publication of checklist and pamphlets)

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

As mentioned earlier local participation was less at community level. But the students' and teachers' involvement in school education programme was encouraging. They learned about climate change and its impact on indicator species (they did not know concept of indicator species earlier) and also participated in debate and drawing competition. Further, the checklist and pamphlets will help locals and visitors to know about climate change, and also help to identify the local butterfly species.

**5. Are there any plans to continue this work?**

Yes, I wish and will try to continue the work. I have been coordinating with local and nation conservation organizations. Further, I am also planning to apply for the small grants (for example for Booster grant in RUFFORD) to continue and expand the similar works in other areas.

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

The results of my work have been already accepted, as a journal article, in a reputable journal, which I think is the greatest platform to share the results of my study among the scientific communities. Further, I also have planned to go to the study area and to present the results.

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

We complete the project in 1 year, which is as per our plan.

**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
Brochures, checklist, and Pamphlets publication	2450	2000	450	NA
Room, board and field visit cost	1500	1900	-400	We had to stay more due to inclement weather
Community awareness	300	400	-100	Less number of participant
School Awareness Program	480	400	80	NA
Local Transportation and Training	200	200	0	
	4930	4900	30	

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

Conduct similar studies including larger and newer areas to know the whole scenario.

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

Yes. Please refer the attached pictures.

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

Persons those helped me to complete the project and their roles are as below:

Kapil K Khadka: Collect information on butterflies and materials required for the pamphlet and checklist.

Anuj Ghimire: Conducting field study (butterfly survey).

Puja Jha: Helped on reviewing literatures, designing the posters and checklist.

Umesh Pathak: Conducting community and school awareness programs.