

Final Evaluation Report

| Your Details | |
|---------------------|--|
| Full Name | Ravinder Kaur |
| Project Title | The conservation of endangered hornbills in Kenyir Malaysia |
| Application ID | 37966-В |
| Date of this Report | 27/09/2023 |



1. 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 |
|---|-----------------|--------------------|-------------------|--|
| Objective 1: Introduce artificial nest boxes into Peninsula Malaysia from Borneo. | | | | The climbing experts, the HUTAN team, flew in from Sabah, Borneo to Peninsula with two artificial boxes and managed to assist our team in setting up the two nest boxes in Terengganu. |
| Objective 2: Create awareness about the hornbills and their importance in Kampung Basung, Terengganu, Peninsula Malaysia. | | | | Many governments and NGOs came together for this event. Approximately 300 local people were reached through the talks. |
| Objective 3: Engage local nest guardians to locate natural nests of hornbills; particularly the species listed as critically endangered and vulnerable hornbills. | | | | We managed to find three men, Azie, Alan and Jai who have shown great commitment and interest in the project. They have helped our team in the forest track down nesting hornbills for over a year. They are from the Batek tribe. |
| Objective 4: Continue adding plants (hornbill preferred food) to the established plant nursery within the local village. | | | | The plant nursery is growing. |

2. Describe the three most important outcomes of your project.

- **a)** Two artificial nests have been set up and the birds are showing interest by visiting the nests.
- b) The awareness campaign was carried out successfully and 300 attended and participated in the activities. It was also jointly carried out with other prominent government agencies and NGOs; PANTHERA, Nature Based Solutions, Wildlife Department Terengganu and Terengganu State Parks.
- c) Nest guardians identified and relationship between them and our team has grown stronger over the months.





HUTAN-KOCP NGO Ahmad Sapie scales the tree to install the nest boxes. © Sanjitpaal Singh Education Director of Gaia.

3. Explain any unforeseen difficulties that arose during the project and how these were tackled.

Setting up artificial nests on people's land and their trees can be very challenging. It takes a lot of discussions prior to the activity. Miscommunications can happen. There were many rounds of consultations needed and a few small gestures needed such as t-shirts were given as a token of appreciation for those that allowed us access to the trees.

4. Describe the involvement of local communities and how they have benefitted from the project.

They were happy their village was selected for this project, putting them on the map and helping them with their plans to develop ecotourism. They were interviewed by the local press. The nest guardians from Kuala Koh were employed for the forest excursions. They benefitted financially when we hired the locals either as guides or cooks (catering).

5. Are there any plans to continue this work?

Yes, we will keep checking on these two nest boxes as they are being monitored by a camera trap. The camera trap will require frequent battery changes and the nest box will require maintenance.



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

By sharing the camera trap footages obtained at the nest boxes in social media.



Two camera trap images that showed the target hornbill, showing interest in the artificial nest box after they were set up in Terengganu. The left images show a female Great hornbill and the right, a male. They are our target species for the artificial nests.



The left image shows a female Great hornbill on a perch, inspecting the webbing on the nest box.

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

The need to train the team to become expert tree climbers and to continue putting up nest boxes with camera traps and restoring tree cavities. Hornbills need tree cavities to nest in and our forests are lacking this, due to historical logging. They are unable to form these cavities themselves. We need to provide nesting opportunities for them.



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

Yes, please see poster produced for dissemination during the outreach campaign. Appendix 3.

9. Provide a full list of all the members of your team and their role in the project.

Sanjitpaal Singh (photographer and project coordinator), Ravinder Kaur (scientific direction and report/proposal writing), **Zikry Adib Kurnia** (on ground staff to conduct long term monitoring and consultations with local people). **Nadia Kamarulzaman** (coordinated the Basung campaign). **Helson Hassan, Azmi Bin Ungas, Firdaus Aminin** and **Hemaharshni Nagarajan**, the field team that is minding the plant nursery and always searching for hornbill nests and their preferred food plants.

10. Any other comments?

Thank you for granting us this fund.

Appendix 1: Photos of the project



Basung village awareness and outreach campaign. The Wildlife Department Officer giving a talk on the law that protects wildlife (left). Nature Based Solution's Director Sri gave a talk about what their organisation does in terms of research and conservation with the state park and it's natural resources.





Ravin giving a talk on hornbills while the kids colour in the hornbill colouring book.



The Basung village awareness and outreach campaign. The campaign was conducted with a colouring competition of hornbills (enggang) for kids, with prizes available for the best entries.



Small plant nursery established in Sabah with cooperation with the HUTAN team.



Appendix 2: List of hornbill preferred food plants collected.

| Source | Species | Common name | Current total |
|----------|----------------------------|----------------|---------------|
| Wildling | (unknown) | Bawang-bawang | 60 |
| | Aglaia sp | Lantupak | 48 |
| | Azadirachta excelsa | Limpaga | 3 |
| | Barringtonia ashtonii | Tampalang | 38 |
| | Bridelia stipularis | Balatotan | 22 |
| | Cananga odorata | Bunga Gadong | 84 |
| | Dacryodes laxa | Kedondong Bulu | 12 |
| | Dracontomelon sp. | Sengkuang | 65 |
| | Koordersiodendron pinnatum | Ranggu | 22 |
| | Litsea sp. | Medang | 85 |
| | Rauvolfia sumatrana | Jelutong Tipu | 5 |
| | Unknown species 1 | | 22 |
| | Unknown species 2 | | 14 |
| | Unknown species 3 | | 17 |
| Cutting | Ficus stricta | | 11 |
| Total | | | 508 |





The nest guardians (indigenous people from Kuala Koh), Azie, Alan and Jai in their "Hornbill Guardian" t-shirts. Zikry Adib is the expedition leader, in a blue shirt.



The nest guardians in the forest, looking for hornbill nests and taking the GPS locations.



Appendix 3 – Translated poster on hornbills with Rufford Foundation logo.

