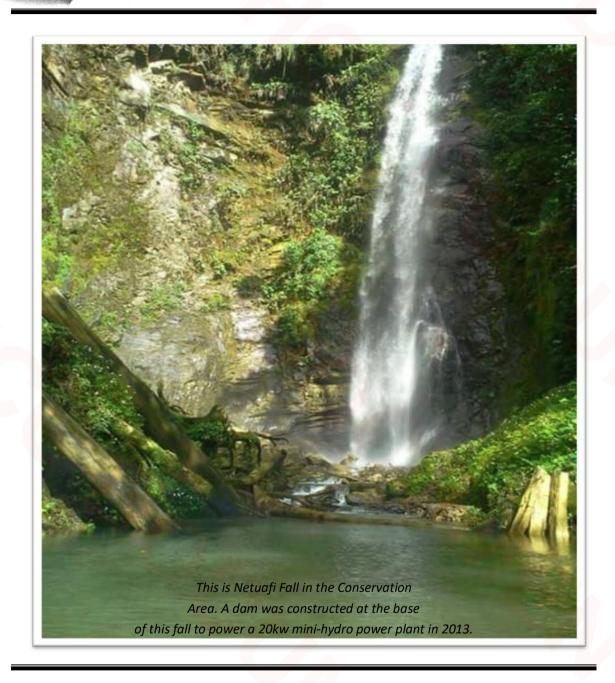
HOGAVE CONSERVATION AREA MANAGEMENT PLAN



Prepared and Approved by Hogave Conservation Centre Board

Lufa District, Eastern Highlands Province, Papua New Guinea

May, 2023

Table of Contents

l l	Page:
Acknowledgements	3
Abbreviations	4
Location Maps of Hogave Forest Conserva <mark>tion</mark> Area	5
Background: The Story of Hogave Conservation	8
Why our Protected Area is Important	8
Our Landscape and Ecosystems	8
Our Plants and Animals – Flora and Fau <mark>na</mark>	10
Our People and Culture	13
Our Community Deveopment Projects and Infrastructure Threats to our Conservation Area	13 13
Looking After Hogave Conservation Area; Policy	13
VISION, Mission, Objectives	16
How Objectives will be Achieved and Opportunities for Improvement	16
The Law and Policy	18
Hogave Conservation Management	18
Hogave Conservation Centre Board	18
Role of Hogave Concervation Centre Board	19
Compliance and Monitoring Compliance	20
Protecting Our Values and Achieving our Vision:	
Management Actions and Desired Outcomes	20
Compliance and Monitoring	20
Our Landscape and Ecosystems	20
Our Plants and Animals	21
Our People and Culture	21
Threatened Species in Focus	22
Research Study Facility and Environment	22
Improved Sources of Income	23
Home Improvement	23
Basic Health and Education	24
Training and Capacity Building	24
Our Rules and Regulations	24
General Prohibitions, Restricted Activities, Authorized Activities	25
Table 1. Our Action Plan	26
Table 2. Monitoring, Evaluation and Review of Plan Table 3. Financial Plan	29 32
Summary	37
References	37
Appendices: Appendix 1 Chart of Account - HCC Project Activity/Operation Budget	38
Appendix 2 Tables of Birds, Mammals and Ants in Hogave	40
Appendix 3 Pictures of Birds of Hogave	43
Appendix 4 1990 Memorandum of Understanding by Chiefs of Hogave	47
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Acknowledgments

This management plan has been Prepared and Approved by Hogave Conservation Centre of Lufa District, Eastern Highlands Province, Papua New Guinea in April 2023.

Firstly we acknowledge and thank God for the beautiful creation He has blessed us with and His continued blessings in the Hogave Conservation Initiative.

Special recognition and appreciation is given to Siva Kima for expertly researching and putting the documents together and Moses Musalaki Kima for preparing all the maps for the Conservation Area with the assistance of David Waiyamo Vira the Coordinator of Hogave Conservation Centre.

The Hogave Conservation Centre acknowledge that the Hogave Conservation Area is in the customary land of the Hogave Village comprising of three Clans; Laivolo, Mula and Kevoma.

For further information or any inquiries about this Conservationa Area or this Management Plan, contact the Hogave Conservation Director through Email: ea-png@zoho.com or cell phone number (675) 71811337.

Cover photo

Photo taken by David Kima Director of Hogave Conservation Centre Inc.

Abbreviations

HCA Hogave Conservation Area

HCC Hogave Conservation Centre Inc.

IBR Institute of Biological Reasearch

BBOP Blue Bird of Paradise

NGBR New Guinea Binatang Research Centre

IUCN International Union for Conservation of Nature

EHP Eastern Highlands Province

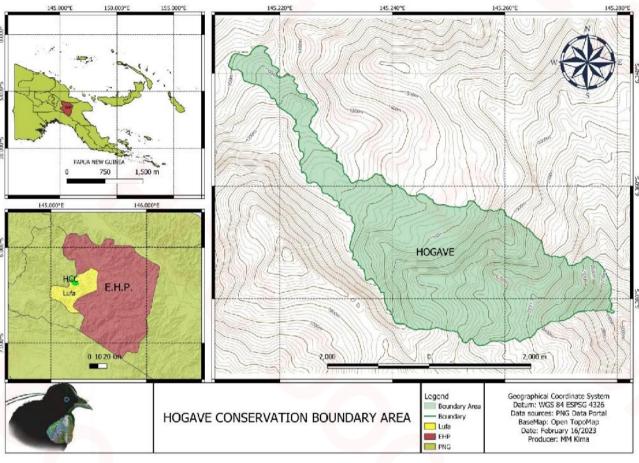
PNG Papua New Guinea

MOU Memorandum of Understanding

CITES Convention on International Trade in Endangered Species

Location Maps of Hogave Conservation Area

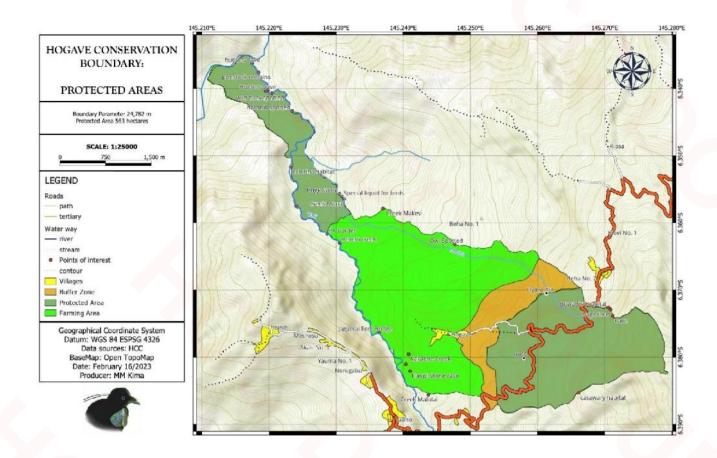
Prepared by: Moses M Kima



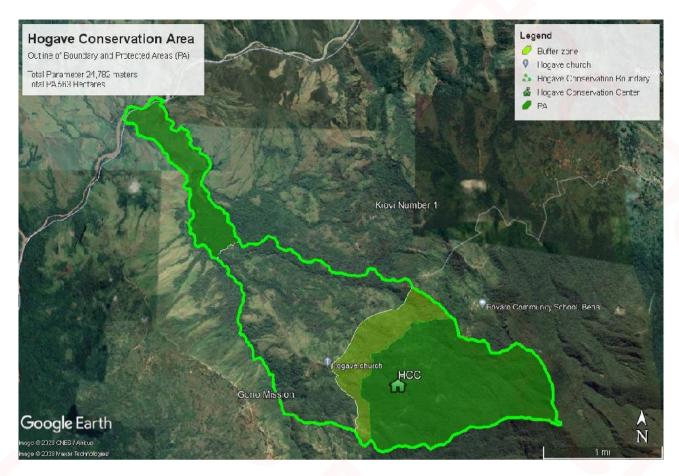
Map No.1. Topographic Map of Hogave Conservation Area

• Location Map of the project site showing, that the conservation area is located in the Lufa District of Eastern Highlands Province in Papua New Guinea.

Map No.2. Detailed Topographic Map of Hogave Conservation Area



- Map No.2, showing some details of the Conservation Area. The Map is showing some key physical
 features and landmarks of the area. South, East in dark green is the current conservation area with
 intact primary forest.
- The bottom; South, West in dark green has minimal human activity. It is home to Raggiana Bird of Paradise and other low land flora and fauna, including the Echidna. Half of the lower Consevation Area is covered with savannah grassland with little to no trees. The land area shown in bright green is the village farming areas.



Map No.3 Google Map of Hogave

Map No.3 showing;

- Conservation Area is in dark green with primary forest. Approximately 563 hectares.
- Bufferzone is in light green, separating the conservation area and the villages with gardening areas.
 Approximately 127 hectares.
- Village Settlement & Gardening Areas. Approximatley 540 hectares.
- Lowland Areas where Raggiana Bird of Paradise, Echidna, Cuscus and other lowland flora and fauna are abound. Half of this land is savanah grassland and we intend to plant trees. Approximately 171 hectares.
- Total Hogave Area is 1,229.9 hectares.

The Story of Hogave Conservation

Hogave Conservation initially got started in 1987 as a conservation area by the Hogave people themselves with resilient leadership and direction from David T Kima, Founding Director and late Chief Kima Mulefa. Part of the reason for initiating this project was steady increase in human population and their encroachment on the forest. There was a genuine threat of people polluting the rivers, creeks and springs which this forest provides and serves as a drinking water source for the people that live below the mountains and valleys. Also the population of the Hogave tribe was growing steadily and was posing a threat to the primary forest when they were cutting and clearing primary forests, which were home to many wildlife, for gardening and building huts. Also the people were moving closer to the only public road that runs from Lufa station to Ubaigubi which also serves as a boundary for the forest and villages. There was also a threat of an unidentified mining company going through the area and identifying almost all the rivers and creeks as positively deposited with mineral resources. Potential for logging and minning exploration was also present but people upon prolonged awarenes and consultation, opted for conservation of their forest. Traditionally, the people of Hogave had already been practicing conservation and sustainable use of resources, this was then formalised. Hence Hogave Tribal Chiefs through a signed Memorandum of Understansding declared a portion of the primary forest as "Hogave Conservation Area" in 1990.

The Hogave Conservation Area (HCA) is part of the Hogave customary owned land and is under indegenous customary ownership (private ownership) of the Laivolo, Mula and Kevoma clans of Hogave tribe. The majority of these traditional landowners live in Hogave village while others live in other parts of Eastern Highlands Province, and other parts of Papua New Guinea.

Currently, the Hogave Conservation has been recognised by various organisations within Papua New Guinea and is looking at registering the Conservation Area under Conservation Areas Ammended Act (1978) in the near future. There will be more awareness to the people of Hogave and the 3 clans for this legal status of the conservation area. Although, it is not legally registered as a Conservation Area under the laws of Papua New Guinea, the people of Hogave continue to protect the forest. This communal agreement is still effective 35 years after it was locally declared as a conservation area (see appendix for MOU).

Hogave Conservation has been incorporated as an Association in May 2006 under the name *Hogave Conservation Centre Inc.* (HCC). Hogave Conservation is also registered by the Internal Revenue Commission, Certificate Number 501412740. Hogave Conservation Centre holds an Insurance Certificate of Currency, that is a public liability insurance for worker's injury.

This management plan gives detailed information about the Hogave Conservation Area and describes the key issues regarding the implementation, management and conservation of the present forest ecosystems. The management plan has been prepared by the Director of Hogave Conservation after consulting with leaders and clan members of Hogave community at the Hogave Conservation Centre. The Hogave Conservation Centre ensures that the plan is in consistant with their aspirations for sustainable management of their natural resources.

Project Location: Hogave and Mt. Michael are located in the Lufa District of the Eastern Highlands Province of Papua New Guinea. The distance from Goroka town to the project site is about 63km south. Mt. Michael is the highest mountain in Eastern Highlands with the altitude of about 3650 meters. The project area is to the west of Mt. Michael, approximately, latitude 6°22'S: longitude 145°15'E., starting at an altitude of approx.2000m and ascending to approx. 3200m. The project site is accessible by road transportation from Goroka Town.

Population & Project Area: Hogave Village is a sub tribe of the Gimi language speaking group that consists of three clans that have access right and ownership to the south western part of Mt. Michael. The primary forest area is commonly known as Seleta on the topographic map, but locally known as Hogave Bush. Currently the Hogave population is about 1000 people. These landowners have access right to this forest. The immediate

primary forest area to be conserved as initiated by the people can at present be estimated at 20 square kilometers, though the total primary forest area is well over 200 square kilometers and is owned collectively by villages surrounding Mt. Michael. The forest extends to the Crater Mountains which more than 50 tribes or villages have ownership rights. The Hogave tribe has ownership rights to about 20 square kilometers and they have conserved that part of the forest. Nature and conservation officials have advised that 20 square kilometers is an ideal size for a national park. The boundaries of the conservation areas are mostly marked by typical natural features such as streams, ridges, cascading gullies and plants marking the traditional boundries. These boundaries are agreed upon, mapped and conserved.

How We Use Our Forest: The Hogave Conservation Area and surrounding forest sites contains primary rainforest and secondary re-growths. These forest types are located along either sides of the main public vehicle road and around the village settlement areas, gardens and buffer zone. Some direct benefits the villagers recieve from conserving the forest are:

- 1. Source of fresh, clean drinking water.
- 2. Unpolluted fresh air.
- 3. Limited drought/dry weather.
- 4. Dried wood for fuel/cooking.
- 5. Selective trees for house making and garden fences.
- 6. Tree vines and other materials for house making.
- 7. Traditionals medicinal plants and spices for cooking (leaves & tree barks).
- 8. Forest nuts, various mushrooms and other forest fruits.
- 9. Protein from forest animals.
- 10. Protection of some sacred places.

The HCA (current management of the area) including the guesthouse and resource center, has been managed with the aim to safeguard the benefits realized by the people and to preserve the natural value of the natural ecosystems. The area is suitable to be developed into a top scientific research and bird watching center. A five-bedroom guesthouse has been built in the area to facilitate researchers and visitors. Over the years many scientific researchers have visited the area and have highly commended the forest, people and services received at the guesthouse.

Why Our Protected Area is Important (Key Values)

The Hogave Conservation has the following significant values; our landscape and ecosystem, plants and animals, our people & culture, and our rural development project assets.

A. Our Landscape and Ecosystem

Hogave Conservation Project conserves the primary forest and wildlife including birds of paradise and mammals as identified by the former department of environment and conservation in their 1989 preliminary survey and data provided in the Conservation International and Institute of Biological Reasearch (IBR) Survey Report in 2009. Included in this protected wildlife area are many endemic species (see list in appendix). The type of vegetation found in Hogave Conservation Area has high potential for conservation as a source for biological and scientific research.

Hogave Conservation Area is located in Eastern Highlands Province which is located in the central highlands of PNG and covers 11,000 km2. The Bismarck Range is on the north of the province reaching a peak of 3546m on Mt. Otto while Kratke Range is in the south reaching a peak of 3647m on Mt. Michael which is the highest peak in the province and the 5th highest peak in PNG. Mt. Michael is an isolated mountain peak, forested above 2100m and below that it largely grassland from gardening and human habitation. Vegetation at Mt. Michael change in composition with altitude, the general succession being secondary forest and grassland at the foothills to mid montane between 2100- 2600m, moss forest around

2700 and alpine grassland above that. Mid montane forest is dominated by Nothofagusgrandis, N. pullei and N. peryi. The trees in moss forest zone are stunted and the forest is poorly lit with thick layers of moss covering much of the ground, trunks and branches. Mist and cloud cover these zones for a large proportion of time and rainfall is very high. (*IBR Survey Report in 2009*)

Hogave has an intact primary rainforest with different forest types which provide habitats that support numerous ecosystems and also provides for the livelihood of the local people. The richness of the biodiversity that exists in the land presents a perfect spot for scientific research, ecotourism and biodiversity conservation.

The physical landscape in Hogave comprising of ridges, mountains, waterfalls, mountain streams, scenic views and friendly people with a rich culture, makes Hogave Conservation a highly potential tourist destination. There are also many interesting tourist attractions such as the Netuafi falls seen on the cover page and opportunities to see various Birds of Paradise, bush trekking and climbing Mt Michael, the highest peak in the province and fifth highest mountain in the country.

B. Our Plants and Animals -Flora & Fauna

The importance of conserving the forest of Hogave is detailed in the excerpts from the Mini-Rapid Assessment Program done in 2009 by PNG Institute of Biological Research and New Guinea Binatang Research Centre (NGBR) in the Hogave Conservation Area, funded by A Rocha International.

1. The Birds- by Paul Igag

General Impression of Each Site

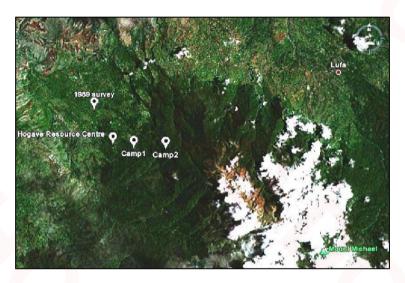
Fifty-one species were recorded in 22 groups from all the three sites (Table 1). Species abundance, distribution patterns and abundance varied among the sites. Camp 1 had high species abundance with 34 species while the HRC and Camp 2 recorded 22 and 26 species respectively. Fruit-doves (columbidaes), flycatchers and robins (Eopsaltridae), honeyeaters (meliphagidaes), whistlers (pachycephalidaes), bird of paradise (paradisaeidae) and parrots and cockatoos (psittacidae) contributed most species. Species that had higher abundance at Camp 1 than Camp 2 were Melanocharis versteri (Dicaeidae, Fantail Berrypecker), Sericornis nouhuysi (Acanthizidae, Scrub-wren), Crateroscelis robuster (Sylviidae, Mountain-mouse Warbler), and Ptilinophus guisei (Meliphagidae, Rufous-backed Honeyeater). Conversely Sericornis papuensis (Acanthizidae, Papuan Scrub-wren) and Clytomyias insignis (Maluridae, Ornage Fairy-wren) had high abundance at Camp 2 than Camp 1. While species that had restricted distribution or were only netted at Camp 1 was Peneothello cyanus (Eopsaltridae, Blue-grey Robin) and for Camp 2 it was the congener Penethello sigillatus (White-winged Robin).

The results show clear distribution of birds along an elevational gradient. The five species that occurred in all the sites are indicative of species with broad altitudinal range. Other species which were found only on one site such as Cnemophilus macgregorii are species with narrow altitudinal range. It seems that birds tend to be segregated into different altitudinal zones. The general trend for bird species distribution along an elevational gradient is that species diversity decreased with increasing altitude. However, about the same number of species was found at lower site and the high elevation site. The reason could be that the lower site (HRC) is more disturbed area because it is close to the village and near the main road where there is constant presence of people compared to the mid and high elevation sites. However, the main obstacle during the survey was constant rainfall. Therefore, it is possible that total bird diversity of Hogave is an underestimation.

Mist nets were closed earlier when it rained to prevent birds strangling themselves during the rain. Compared to 1989 survey (used similar methods), this survey recorded 19 more species but missed five

species (Astrapia stephanie, mezomella reseembegii, Monarcha axillaries, Psttacella bremii, Epimachus mayeri and Mezomella adolophinae). This brings the total number of bird species in Hogave Conservation area up to 56.

Hogave Survey Site Map



Species of Interest

Some species of paradisaeidae group had limited range distribution and are CITES species. These birds are; Superb Bird of Paradise, Lophorina superba was recorded at HCC, Black Sicklebill, Epimachus fastuosus and Loria's Bird of Paradise, Cnemophilus loriae were both present at Camp 1, Cnemophilus macgregorii was only present at Camp 2, two Cnemophilus' overlapped at 2400m and C. loriae was replaced by its congener C. macgregorii at 2800 m. The only Ptilonorhynchidae Macgregor's bowerbird, Amblyornis macgregoriae was recorded at both mid and high elevation camps. Amblyornis macgregoriae prefer forest interior and rarely come to the forest edge. The ratite Cassuarius bennettii is an IUCN Threatened species. It was identified from droppings at Camp 1. In other mountain peaks of New Guinea, they are present up to timber line, 3000 m.

2. The Mammals - by Enock Kale

Interesting Species

The two non-volant species, Paramelomys rubex and Rattus niobe are widespread species along the Central Cordillera of New Guinea (Flannery 1995) and both are important species at both elevations in terms of abundance although the number of the former declines at 2800 m. Two volant species, S. australis and N. certans are important species at 2800 m. According to Flannery (1995), S. australis is a widespread species at all elevations especially along the Central Cordillera. Although P. collinus was not trapped at 2800 m where both S. australis and N. certans were trapped, Flannery (1995) has netted all three species at 2300 m which shows that all the three species are sympatric.

3. The Ants- by Katayo Sagata

General Impression of Each Site

Twenty-three ant species belonging to 16 genera in four subfamilies were collected (Table 4). Eleven ant species, nine genera in three subfamilies were collected from Hogave Resource Centre, 13 species, 10 genera in four subfamilies were collected at Kavoyakotutai (Camp 1) and no ants were collected from high elevation site (Camp 2).

A general rule on ant distribution along an elevational gradient is that species richness and abundance are high at warmer low elevations and drop off completely at around 2500-3000m. Here, mid elevation site (Kavoyakotutai) had slightly more ant species than Hogave Resource Centre (lower site). Statistically, there could not be significant difference because there was a difference of only two ant species. The result is not surprising because elevational difference was only 100m and the vegetation type was the same between these two sites. The absence of ants at the high elevation site (Camp 2) was again not surprising because ants usually drop off at this elevation. However, it is possible that total ant species diversity of Hogave is an underestimation because it rained every day during the 14 days of sampling. Rain discourages ants from foraging and wet litter in Winkler sacks take longer to dry which would force ants out into the collecting jars.

Species of Interest

Pheidole is the second largest ant genera with 898 ant species in the world one will almost always find them whenever ants are sampled. Here, three species of Pheidole were found which, is the highest number of species in one ant genera found at Hogave. Unlike Pheidole, Vollenhovia is not as diverse (67 species) but also contributed three species and occurred at two sites. Other species like Tetramorium, Phillidris, Ochtellus and Apheanogaster are cosmopolitan species. Only two species of Ochtellus are known from PNG but could not tease out what species was found at Hogave. Technomyrmex albipes is widespread tropical pest ant. Pest ants are usually found near human habitation and open areas where it is disturbed. Not surprising, T. albipes was found nesting in a ficus species near Hogave Conservation Centre (guest house). Tetramorium pacificum another widespread exotic ant species is not considered as a pest ant. Tetramorium pacificum was found near the guest house and under completely closed forest litter at Camp one, which suggests that T. pacificum must have been in the area for a long time. Strumigenys, Onychomyrmex, Amblyopone, Proceratium, Discothyrea are common inhabitants of leaf litter in tropical forests and not easily encountered.

4. The Plants: By Bega Inaho & Banak Gamui

General Impression of the Site

Overall, 783 trees and 1 liana with DBH \geq 10 cm were recorded in the one-hectare plot with mean DBH of 21.29 \pm 12.76 (\pm SD) for the trees. Size of trees ranged from 10-118 cm in DBH and more than half of the trees were less than 20 cm DBH (Fig. 2). Stem density decreased with increasing DBH (see figure 1). The mean stem density in the 25 sub-plot is 31.64 \pm 8.13 (\pm SD)

Interesting Observations

The results show that big trees of 50 cm DBH and over are very few which explain why stem density per plot decreased with increasing DBH. The one-hectare plot, sub-plots and trees were marked permanently, so species identification will be done later. Besides it will be interesting to do a follow up study in the future to study the dynamics of the trees.

5. Birds of Paradise in HCA

The 1989 Department of Environment Survey Report & Mini Rap Assessment Survey Report in 2009

identified the following Birds of Paradise Species that are currently active in Hogave Conservation Area;

- 1. Lawes Parotia
- 2. Macgregor's Bower Bird
- 3. Blue Bird of Paradise
- 4. Superb Bird of Paradise
- 5. Princess Stephanie's Astrapia
- 6. Loria's Bird of Paradise
- 7. King of Saxony Bird of Paradise
- 8. Black Sicklebill Bird of Paradise
- 9. Brown Sicklebill Bird of Paradise
- 10. Crested Bird of Paradise
- 11. Raggiana Bird of Paradise (low altitude area, endemic)

The Blue Bird of Paradise, Paradisea Rudolphi is the threatened species currently in focus at the HCC. The Blue Bird of Paradise, (BBOP) is a protected species of Papua New Guinea under the Fauna Act 1966-73. The law allows for limited local sale of the plumes for cultural purposes, however commercial sales are prohibited. The BBOP has iridescent blue plumage and displays exuberant courtship rituals. Its low population is due to habitat loss caused by deforestation and hunting by the locals for their colorful plumes that are used for headdresses during cultural celebrations (*sing-sing*). There have been only few rare sightings of this endemic bird of paradise near the Hogave Conservation Area. When the BBOP displays its animated rituals, it is so immersed in its dancing that it is not attentive to natural dangers that may be around it and sadly that is when it is killed by human beings. In 2001 the BBOP was listed as 'near threatened' and classified as VU –Vulnerable by the International Union for Conservation of Nature (IUCN).



Mature Blue Bird of Paradise (Wikipedia)

Young Blue Bird of Paradise (Dr. Konrad Wothe)

C. Our People and Culture

The people of Hogave speak the Gimi language and have a rich cultural heritage. Many people in the village are fully aware of the cultural importance of the Hogave area as it was a land conquered and claimed by worrior ancestors. The people in Hogave community are very welcoming and look after guests and visitors well. There

have been such activities carried out that promote and preserve the traditional culture of the people of Hogave. For example, the Traditional Salt-Making project where the food seasoning of salt was made using traditional methods and forest ingredients by the elders of the village. Other cultural activities they have engaged in include traditional 'sing sing' and blowing of bamboo flutes as musical instruments.

The HCA hosts many culturally significant sites of the Hogave tribe. The land is their inheritance passed on from their ancestors and has burial sites as well. Traditionally, the Hogave people have depended on forest resources from the land and river system for food, medicine, tools and shelter. The conservation of culturally significant sites is equally as important as the conservation of our natural environment. Sustaining traditional resource uses practiced by our ancestors is important for future generations.

D. Our Community Development Projects and Infrastructure

The Conservation has provided another source of income over the years through the various projects and incentives that have been implemented. Many projects have been carried out in the past to help improve the livelihood of the Hogave constituents. This includes a village water supply system currently running through the village which project partners have assisted the Hogave Community with. It is currently well maintained and serving the whole community. Furthermore, there has been many training opportunities for the Hogave community throughout the years.

A five-bedroom guesthouse was built at the Hogave Conservation Center in 1999. This guesthouse forms the Hogave Conservation Operational Centre. This facility houses scientists, biodiversity researchers and students when they visit to do their research work in the conservation area. The guesthouse has also served project partners and workers from overseas. The guesthouse log book has recorded hundreds of visitors (researchers, project partners) comments commending the conservation project and hospitable and caring Hogave community. The guesthouse has all basic amenities and is a convenient facility in the midst of the remote forest conservation area.

Threats to Hogave Conservation Area

The natural environment surrounding Hogave village is vulnerable. Today, there are many stresses that impact the health of this valuable natural habitat. Human threats are numerous and compounding. Below are the main threats to the Hogave Conservation Area.

- i. Contamination of Water Source
- ii. Tree Felling
- iii. Expanding Human Settlement
- iv. Overhunting Wildlife
- v. Logging & Mining
- vi. Poor Road Construction
- vii. Climate Change

Contamination of Water Source

There is a threat to the drinking water supply system from human activity polluting rivers and creeks that are the sources of drinking water for the entire village. The drinking water supply that runs down to Hogave village is situated near the Hogave Conservation Centre which is located at a higher altitude than the village. This water supply source is also closer to the public vehicular road. Once people loiter around this area, the water becomes muddied, polluted and not fit for human consumption as it passes through the water supply system.

There are also other drinking water sources situated at this higher altitude but the more human settlement encroaches on it, the less safe it becomes to drink.

Tree Felling & Expansion of Human Settlement

There is cutting and clearing away of primary forest for subsistence gardening and for building homes.

Trees are being cut to make garden fences and build huts or houses encroaching on the Protected Area.

The unsustainable harvest of resources in our forest area has obvious consequences on the forest ecosystems. The forest provides a habitat for many terrestrial animals and plants and it protects the river banks from erosion during flooding periods. If the forest health is compromised, so too will be its ability to support other life and act as a buffer. The 11 birds of paradise found in the HCA are under red alert listing by the International Union for Conservation of Nature (IUCN 1996), meaning that they are a threatened species. The major threat to their existence now, is the clearance of their habitats and rainforests for gardens as the village grows and expands.

The management plan facilitates people to make small gardens along designated areas as planned (see land-use map). Most of these gardens sites have low impact on the forest ecosystem of environment. However, if population is increasing and gardening intensifies it could become a threat for some parts of the conservation area, especially when more forest is cleared for garden areas. Hogave villagers are moving away from the village and settling near the public road which serves as a boundary for the protected area. Human settlement activity encroaching on the protected area causes disturbances to the natural eco-system.

Overhunting Wildlife

Overhunting will result in terrestrial invertebrates' populations like, possums, bats, native forest rats, declining as they are killed by domestic dogs and cats. Dogs are increasingly being looked after by the Hogave villagers as pets however on many occasions they are seen roaming the forest and killing the wild habitat, the birds or small forest creatures.

Logging and Mining Interests

With the vast number of trees, there is a potential for logging. Also, with gold being mined in the nearby Crater Mountains, there is real potential for mining exploration and mining.

The Conservation area contains numerous trees that could be exploited in the future if they are not protected. This would cause much damage to the natural ecosystems, flora and fauna contained within the conservation area. The conservation project is extremely vital because adjacent to Mt. Michael is the Crater Mountains which has been identified by exploration firms as immensely deposited with minerals (and exploration activities have been intensified so far). It is only a matter of time before full scale mining activity will take place at the Crater Mountains. People and organizations' who are genuinely concerned with conservation need to act faster rather than wait and complain when damage has been done, which seem to be the trend in many communities in Papua New Guinea.

Road Construction

In the past, poor road construction has badly damaged portions of the conservation area resulting in flooding of streams onto the road which causes further destruction of the road system and a lot of land slips. A notable destruction was caused by a company in 2016 when they damaged the sections of the road in the area that caused landslips and much flooding that washed away our mini hydro power dam and penstock pipes.

Climate Change

Climate change can also affect the ecosystems in the conservation area in a negative way. Climate change threats to our area include: warming temperatures of the atmosphere; droughts; increased landslides and earthquakes. It is uncertain to what extent these threats will impact terrestrial ecosystems such as HCA, but there are many ways in which animals and plant populations and humans might be affected. Terrestrial habitats will certainly be affected by both the warming of the atmospheric temperatures and resulting in a deterioration of the forest health. Unusual heavy rainfall and occasional flash flooding can be attributed from the irregular weather patterns and climate change.

The threats discussed above, all result in a less primary forest environment. Overall, research and study facilitation activities offered in the area are likely to be negatively impacted by all the mentioned threats. Currently, scientific researchers and wildlife filmmakers come to Hogave Conservation Centre to experience the primary environment, which supports beautiful rainforest and its wildlife. As resources are depleted, and ecosystem health and balance altered, and the natural environment may become less appealing to scientific researchers and wildlife film makers.

Looking After Hogave Conservation Area: Policy

VISION

Beautifully conserved primary forest area with teeming wildlife freely raoming around the landscape of Hogave and Mt Michael with locals living harmoniously with nature in an improved and content living environment.

Mission:

Conserving the primary forest for present and future generations whilst achieving community development.

Objectives:

The two Primary objectives for this project are:

- Firstly, to conserve Flora and Fauna of Hogave
- Secondly, to improve the general living conditions of the Hogave village people.

1. Conserve Flora and Fauna (Forest Environment)

- 1. Plentiful forest trees and forest growth
- 2. Plentiful megapodes and other land birds
- 3. Protection and increased population of avifauna, special (endemic) birds and mammals
- 4. Culture preservation
- 5. Research study facility & environment
- 6. Example to other forest owning villages

2. Improved Living Conditions:

- 1. Clean, uncontaminated fresh drinking water
- 2. Alternative sources of Income
- 3. Training and Capacity Building
- 4. Basic Health & Education
- 5. Home Improvement
- 6. Electricity
- 7. Women Empowerment Program

How Objectives will be Achieved and Opportunities for Improvement

1. Forest Environment

The first objective will be achieved by either declaring the area as a Wildlife Management Area, or a National Protected Area and registered under appropriate government regulation. This has to be worked out with relevant government officials and relevant NGO's. Contacts and field visits had already been made with the department of nature and conservation officials who were very strongly in favour of declaring the area as a registered conservation area. However the current arrangement with local tribal leaders taking ownership in declaring to conserve their forest has worked very well for 35 years after it was locally declared as a conservation area. The Hogave people have kept to their communal pledge and resolve to look after their forest for future generations.

Hunting, cutting of trees and harvesting of other plant materials like firewood in the primary forest are strictly forbidden. Other communities who use the access road that cuts through part of the conservation area are strongly advised not to use the forest or wander off into the forest. Domesticated animals like dogs or cats and even livestock like pigs have to be strictly kept within the owner's premises or within the allowed farming area and not let to wonder off into the forest on its own. Stray dogs or cats roaming the forest are to be removed by

forest rangers.

From the general protection and conservation of all plants nsd animals, there will be special emphasis and protection on certain threatened species in focus. These are for endemic plants or animals found within the Hogave Conservation Area that are listed as threatened or vulnerable under the International Union for Conservation of Nature Red List of Threatedned Species. Programs and activities will be carried out to protect and repopulate these species. Once the population has reached healthy levels, other species of fauna or flora will be in focus to protect.

Community Resolution-The Hogave people therefore had several community meetings and resolved that there is sufficient cleared land for making gardens (farming) and building houses on. It is therefore unnecessary for them to clear the new primary forest areas as they are destroying the environment unnecessarily. This community resolution will continue to be remminded and reinforced to the community as done for over 35 years. The people also resolved that logging or mining would not be a good option even if there was enormous mineral deposits. The people have instead opted for conservation.

2. Improved Living Conditions

The second objective of improving living conditions will be realized when relevant, development organizations, such as donor partners provide technical and financial assistance to the conservation project. Various community development projects can also be seen as incentives provided for conserving the environment. This ensures that sustainable livelihood and development needs of the local community are met. Sometimes there is a lack of funding to help initiate, or develop all desired community projects and sourcing funding is a separate process altogether. The Hogave Conservation has had some valued long term partnerships and engagement with NGOs' and government agencies assisting the conservation efforts. The HCA management desires to maintain these partnerships for longterm fruitful outcomes. Successful implementation of past projects within the HCA have shown that forest conservation and rural development can go hand in hand.

Access to Clean drinking water- There should be little or no human activity and increased human settlement around the source of the water supply which is piped down and supplied along the length and breadth of the village. There needs to be constant inspection to ensure it does not become disturbed or contaminated.

People need to live away or settle far from the water source. There needs to be forest rangers that monitor and ensure that people or children don't wonder onto the water source where the pipe is connected.

Improved sources of Income- The Hogave people live on subsistence farming and cash-crop of coffee. Where there is a surplus of food, these are sold for income. Nowadays many are involved in micro-business such as opening small tucker shops and reselling goods bought from Goroka town. There are some members who have jobs in the towns or cities that send money to their relatives in the village. Improved sources of income such as Vanilla or Coffee Export can be looked at as alternative income generating activities. Training on basic finance management would promote sustainable livelihoods.

While there is a high potential for eco-tourism, the management will limit HCA visitors to scientific researchers, wildlife filmmakers and community development projects partners. The possibility of selling forest Carbon credits or Carbon Trading in the future is another opportunity that exists for the Hogave people.

Electricity- Project partners have assisted the Hogave Community with a Micro Hydro Power plant that produced 15-20 kilowatt of power. This hydro power was providing electricity for the village and the Conservation Centre from 2013 to 2017. However, this major construction was severely damaged and unable to function due to a major natural disaster. A land slide and flood damaged the water dam and penstock pipes that carried water to the penstock and turbine. Rebuilding a new mini hydro can be more beneficial to the villagers now as more of them have semi-permanent housing, and small trade stores. There is also a community primary school and church buildings.

Women Empowerment Program- While there is no specific program for them, women have taken part in every project that has happened in HCA over the years it has existed. Women are specifically encouraged to take part in niche commercial farming and financial literacy activities. Hogave Conservation Centre will look at avenues to assist women's farming, animal husbandly and marketing and means of transportation to transport their produce to town for marketing.

Training and Capacity building- There have been many training opportunities that members of Hogave Conservation Project were privileged to attend over the years. These various trainings were all related to conservation efforts and activities related to improving village lifestyles. We envision many more beneficial training opportunities for the people of Hogave in future. This will increase their awareness on conservation values and conservation management and it will be a source of motivation. In this regard, partnerships will local and international established conservationa areas and related NGO's are welcomed.

Home Improvement- Semi-permanent or permanent homes provide a better living environment for the villagers. Many elders have respiratory or coughing problems due to breathing in smoke from the fires in the traditional huts. Moreover, a traditional home requires more trees and material to replace over time. Proper sanitation and clean home areas are encouraged. Every home has to have a toilet facility. Many Hogave villagers have now built semi-permanent houses. The management of Hogave can look into providing assistance regarding this so that the people can be encouraged to build and live in permanent buildings.

Basic Health & Education- The nearest clinic is two hours walk away and serves all the basic medical health needs of the people of Hogave. Regarding basic education, there is an elementary education provided by the Education Department which is being currently relocated and rebuilt. Adult literacy levels can be improved if a literacy program for adult is introduced. This can be facilitated with the adult literacy trainers. There can be discussions on options for basic health services going forward.

The Law and Policy

The Conservation Areas Act 1987 allows for the establishment and management of protected areas in Papua New Guinea. As this national legislation is specific to protected areas, it provides policy, direction, and regulations for Protected Areas in Papua New Guinea. The establishment and the management of the Hogave Conservation Area do not go against the relevant conservation laws and policies of Papua New Guinea. They provide direction and sound policies which HCA seeks to emulate. The HCA can be viewed as part of the national conservation efforts in the country as a non-profit organisation. This HCA management plan will be further reviewed and changed in the the anticipated process leading up to registration of Hogave Conservation Area as a national protected area.

Hogave Conservation Management

The management and administrative efforts and activities are financially supported by income generating activities such as research facilitation fees and administration fees in community development projects. The HCA is managed by the Director, Coordinator, Hogave Conservation Centre Board, HCA Rangers and the Hogave Community. These management rules and regulations shall be communicated to all management personnel to be made aware of and agreed upon. Hogave Conservation will be managaged in such a way that;

- Optimal sustainable livelihood and development needs of customary owners and dependent local communities are met.
- Ecologically sustainable use of natural resources to meet the basic livelihood needs of dependent local communities will be permitted under a strong management regime, particularly in the buffer zones;
- The basic livelihood needs of future generations dependent on the resources of the area will not be undermined or compromised by present generations; and careful usge of resources will be encouraged.

Hogave Conservation Center Board

1. HCC Board – The HCC Board is composed of thirteen (13) members. This includes a women representative. All members of the Hogave community are elligible to become members of the HCC Board. Board members can also serve as Community Assistants.

The Current Board Members are:

- 1. Director/Treasurer- David Kima
- 2. Chairman-Fero Miori
- 3. Vice Chairman-Daniel Feto
- 4. Secretary/HCC Coordinator -David W. Vira
- 5. Board Member/Assistant Coordinator- Jacob Maura
- 6. Board Member-Ben Lapau
- 7. Board Member-Kumoro Kima
- 8. Board Member-Paul W Patrick
- 9. Board Member-Gabriel Joseph
- 10. Board Member-Cannon Navai
- 11. Board Member-Job Lase
- 12. Board Member-Pare Noruma
- 13. Women Representative- Sova Osilo
- **2. HCC Board Meetings-**The HCC board shall meet at least once every year at the Annual General Meeting. The HCC guesthouse and the station area is to be the venue for all meetings unless decided otherwise. In consultation with the Chairman, the Secretary can call for additional meetings should the need arise.
- **3. Term of Office** -The term of office of each member apart from the Director shall be in accordance with the terms set out in the Hogave Consevation Association Constitution. Upon completion of the term, the Board will decide if another term will be filled by the individual.
- **4. Decision Making** -The Board is the body responsible for making decisions regarding the HCA. If the Board cannot come to a consensus, the matter must be referred to the elders of Hogave to advice on a decision.
- **5. Resolving Disputes -** All grieviences by any members of Hogave community wheather trivial such as personal differences or serious matters must be heard by the HCC board and addressed adequately. It is the responsibility of the HCC Board to resolve any disputes arising from the administration and uses of the HCA. Any dispute which is trivial in nature and pertaining to ownership rights shall be settled by the principal owners. In these instances, the Board will assist as necessary.
- **6. Allowances and Stipends** -Depending on availability of funds, sitting allowances will be paid to HCC Board for meetings. Also, if available, funding will be used to cover a meal during the meetings. Such allowaces should be determined by the Executive Members of the Board, which inlcude Chairperson, Deputy Chairperson, Secretary, Treasurer and Director. Members of the Board must be residents of Hogave and Goroka Town to enable attendance and participation in HCA management roles.
- **7. Approval of this Management Plan** -Upon completion, this plan was presented to the HCC Board for review. The HCC Board will periodically review (after 5 years) and adjust the management plan to ensure management objectives are being met.

Role of the Hogave Conservation Management

- To implement the Management Plan;
- To employ appropriate staff and assistants to work in administration or management;
- To Appoint Rangers (community conservation officers) for enforcing management rules and regulations;
- To appoint Community Assistants for various HCA activities;

- To work in partnership with other stakeholders regarding conservation management in an organised manner;
- To review and evaluate resources and plans and maximise benefits;
- Approve various activities and resource uses within the HCA
- To involve the community in the planning process, establishment, management, and monitoring process of Hogave Conservation;
- To ensure there are no grievances left unaddressed whether trivial or serious and ensure that everyone is given equal opportunity to voice their concerns or grievances;
- To improve the capacity of Hogave contituents in conservation management;
- To declare any forest sites within the customary areas of Hogave land to be incorporated into specific management sites:
- Recommend training for HCA staff and rangers; and,
- Screen and review all external research applications to conduct research within the HCA

Compliance and Monitoring

The HCC Board will appoint rangers also known as community conservation officers - (CCOs) for enforcing management rules and regulations. The success of HCA, and the achievement of its management objectives, is directly related to the level of compliance with the HCA's Rules and Regulations. People will comply with rules and regulations when they understand and accept them. However, penalties need to be enforced on those who do not comply with, or break, the rules and regulations.

There will be **six (6)** forest rangers employed, two from each clan. The rangers will be supervised by the Director and HCC Board according to the Forest Rangers Manual. These rangers, appointed by the Board Members, are responsible for the monitoring and enforcement of compliance with the HCA rules and regulations that are approved under this mangement plan. Constituents of Hogave will report any offence to the HCA Ranger for penalties to be enforced. There will be prescribed penalties for individuals who fail to observe the General Prohibitions or carry out a Restricted Activity, without HCA Board Approval.

In the future, where Hogave Conservation has been registered under the relevant Papua New Guinean laws (Conservation Areas Act 1987) offences will have mandatory fines which the offender must pay. The enforcement and compliance system and process will be discussed with the Hogave villagers and other stakeholders when registering the Hogave Conservation Area.

Protecting Our Values and Achieving Our Vision: Management Actions & Desired Outcomes

The protection of the values of HCA is the basis upon which management decisions have been made. The people of Hogave depend on the land for their living and the forest habitat and biodiversity also depend on the people of Hogave to take care of it. Hogave conservation will be managed to protect and maintain the important values to ensure that the benefits derived from them are available to the present and future generations.

Compliance and Monitoring

- 1. Conduct regular education and awareness activities with schools, communities, and other relevant stakeholders. This compliance education and awareness program will cover:
- i. The objectives of the HCC
- ii. HCA boundaries
- iii. Proposed benefits of HCC
- iv. HCC rules and regulations

- v. Penalties for breaking the rules
- 2. Post public notices of HCA rules and penalties within the HCC and relevant notice boards
- 3. Training and the selection of Rangers. Organize training workshop on monitoring and enforcement of HCA regulations for forest rangers.
- 4. Develop and establish monitoring and enforcement program for rangers in Forest Ranger Manual that includes rules and enforcement.

Desired Outcomes

- Increase understanding of HCA rules, regulations, and penalties;
- Achieve a high level of compliance with HCA rules and regulations
- Assist in the achievement of the HCA objectives and desired outcomes: and,
- Trainned forest rangers

Our Landscape and Ecosystems

Management Actions

- 1. Prohibit the commercial harvest of all forest resources from Hogave Conservation Area.
- 2. Prevent Human settlement encroaching on primary forest area
- 3. Periodic inventory, review and monitoring of some major animal and plant species to measure the health of the forest
- 4. Prohibit human loitering near drinking water source
- 5. The community resolution to conserve forest will continue to be remminded and reinforced to the community.
- 6. Initiate relevant steps to registering HCA as a national protected area under appropriate law.
- 7. Ensure Road construction companies and workers are sensitive when constructing or fixing roads running through the conservation area.

Desired Outcomes

- Protect the HCA from overharvesting of its resources
- Protect the HCA from all forms of severe degradation through human activities
- Maintain an intact forest with its multi-functional diversity in protecting the fragile ecosystems of the Hogave forest.
- Increase and continue education and trainning, awareness and community capacity building in conservation management issues and monitoring.
- Uncontaminated clean drinking water source
- Initiate steps to registering HCA as a national protected area

Our Plants and Animals - Flora & Fauna

- 1. Prohibit the commercial hunting or collection of any animal or plants within the conservation area
- 2. Sustainable collection, hunting or harvesting of forest resources is prohibited from forest areas, streams and rivers unless authorised by the HCC Board.
- 3. Educate tribal members continuously on plant and animal life present in the conservation area and the need to protect them.
- 4. Forest Rangers are to check that there is no prohibited activity going on in the area.
- 5. Any domestic animals roaming in the forest is prohibited. Keep close control over any domesticated animals looked after in the village.
- 6. Ensure the community does not introduce and look after invasive species (e.g. rabbits)

- 7. Look into breeding programs for repopulation of vulnerable and threatened (endangered) species such as the Blue Bird of Paradise and other animals and plants.
- 8. Where possible increase forest cover across secondary growth through reforestation
- 9. Make a awaness pamphlets (or poster) from the studies done in the area presenting data on natural features and animals and plant life within HCA to support and facilitate biodiversity research and HCA promotion.

Desired Outcomes

- Plentiful animals
- Increase in population of special and endangered species of wildlife such as the Blue Bird of Paradise
- Healthy primary forest
- Increased understanding by community members of the need to protect plants and animals in HCA

Threatened Species of Focus: Blue Bird Of Paradise (Paradisea rudolphi)

Management Action

- 1. Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones.
- 2. Strengthen prohibitions on threatened species killing with higher penalties.
- 3. Restore their habitats by reforestation programs.
- 4. Replenish their favorite fruit trees or shrubs.
- 5. Remove identified invasive or predator species (dogs that hunt birds).
- 6. Survey species population before and after implementing program

Desired Outcomes

- Greater awareness amongst locals about conserving the threatened species
- Repopulation or substantial increase in population of threatened species in focus
- Restored Habitat for the species concerned.
- Increased population of species concerned

Our People and Culture

- 1. Encourage the people of Hogave tribe to continue their caring hospitality to outside visitors, (project partners and researchers),
- 2. Encourage the people of Hogave tribe to continue practicing the use of traditional knowledge and techniques for natural resource management.
- 3. Promote and encourage projects that preserve the culture and tradition such as the traditional salt making project.
- 4. Make an inventory and description (photos and GPS) of all culturaly important sites within the area.
- 5. Draft a culturally appropriate Code of Conduct for visitors to HCA and the village.
- 6. Inform and clearly explain to community members about HCC partnerships and the work they do through pre-arranged community meetings and ensure community members are clearly aware of different partnerships and visitors.

Desired Outcomes

- Maintain the cultural values and hospitality within HCA
- Protect culturally significant sites within or nearby the Conservation Area.
- Ensure visitors do not overstep or break cultural rules
- Ensure future generations can enjoy the same traditional values as past generations
- Ensure traditional skills and techniques and the language is passed on to future generations.

Research Study Facility & Environment

Management Actions

- 1. Promote and facilitate scientific research activities by scientists on biodiversity. For example; biodiversity and scientific research activities available within the Conservation Area to be advertised to relevant institutions or organisations
- 2. Apply Conservation Area, admission fees to contribute to the running and management of HCA
- 3. Establishment proper finacial records and practice to record how the money is being spent for accountability and transparency
- 4. Seek funding support to assist with various projects that will better facilitate HCA research activities.
- 5. Ensue equal benefit from researchers visiting and project activities.

Desired Outcomes

- Increased scientific research activities in the Conservation Area
- Establish governance/management structure for sound financial management and proper financial records for money spent
- Maintain good relations with current research partners such as Institute of Biological Research
- Source funding for the varous projects that will better facilitate researchers.

Improved Sources of Income

Management Actions

- 1 Help organize training workshops by experts on possible livelihood opportunities such as vanilla farming and export, coffee export and honey farming
- 2. Provide basic financial management or business skills training and assist the community to access basic information on savings such as how to open a bank account
- Women are specifically encouraged to take part in these niche comercial farming and and financial literacy activities.
- 4 HCC will look at avenues to assist women's farming and marketing
- 5. Investigate other alternate livelihood initiatives available and establish partnership and learning networks.
- 6. Continue existing income generating activities and projects for the community.
- 7. Form valuable partnerships with stakeholders, such as NGOs and Government Agencies to support in the conservation efforts of the Hogave People through various projects.

Desired Outcomes

- Knowledge to cultivate and sucessfully harvest alternative income products such as vanilla and honey.
- Increased community understanding of sustainable financing and business skills
- Greater population of Hogave women financially literate and trainned in niche commercial farming activities such as vanilla farming and export
- Funding opportunities to carry out trainning workshops for farming
- HCA beneficiaries partnering and working together with relevant NGO's and Government Agencies that

can train Hogave men and women in the various farming opportunities for an alternative income source

- Sustainable livelihood
- Increased training and capacity for alternative and improved income generating activities
- Good relationships and networks with various project partners

Home Improvement

Management Actions

- 1. Partner with project partners and continue to facilitate various rural community development projects to improve the livlihood of the Hogave community as incentives for forest conservation such as rural electrification
- 2. Pigs to be looked after in fences and not roaming freely in the village
- 3. Every home and family must have their own toilets. Public toilets to be reconstructed at the roadside so that people do not wonder into the forest to relieve themselves
- 4. Where possible, assist the villagers build permanent or semi-permanent homes
- 5. Every home area should be kept clean and free from pests like rodents and other health hazards.

Desired Outcomes

- Various rural community development projects for Hogave community implemented such as rural electrification
- Clean healthy villages
- Improved homes/Permanent houses.

Basic Health and Education

Management Actions

- 1. Evaluate Hogave community's accessibility to basic health services.
- 2. Review and discuss possible options to improve the health services to Hogave.
- 3. Provide assistance where possible to the Hogave Elementary School.
- 4. Partner with and promote Adult Literacy Programs.
- 5. Gauge views of the community on challenges they face regarding basic health and education and assist where possible.

Desired Outcomes

- Improved access to basic health services
- Improved access to basic education services
- Addressing health and education service challenges and plan practical and achievable pathway forward
- Improved basic health and education services

Conservation Training and Capacity Building

- 1. In partnership with relevant organizations seek training for Hogave members on biodiversity conservation and monitoring locally and internationally.
- 2. Designate forest rangers to conduct monitoring within the HCA based on the Forest Ranger Manual.
- 3. Participation of the *Forest Rangers* in a *Look and Learn* visit to other community based organizations and conservation sites.
- 4. Participation of the *HCC Management* in *Look and Learn* visits to other community based organizations and conservation sites.
- 5. Encourage training for evaluation and monitoring by management; annual operations implementation and

reporting by management; finance records keeping by management; project proposal and sourcing funding for management; improved income opportunities for villagers; basic finance management for villagers and other project relevant skills.

Desired Outcomes

- Increased awareness regarding the HCA values, threats, and opportunities
- Increased understanding and capability amongst Hogave tribe members for the successful implementation of the management plan and associated monitoring program
- Monitoring and compliance duties within the Forest Conservation Area are shared amongst community members
- Increased skilled capacity
- Community members putting into practice what they have been trained on.

Our Rules and Regulations

Based on the communal law and resolution to conserve the Hogave primary forest area in 1987, rules and regulations are put in place to effect that resolution. Within the Hogave Conservation Area, it is an offence to do any of the following:

General Prohibitions

- 1. Carry out industrial or commercial extraction of timber, round logs or non timber forest products
- 2. Carry out industrial or commercial extraction of minerals including quarrying or gravel
- 3. Take or remove any plants, animal species or other organisms unless authorized by the management committee.

Restricted Activities

Within the Hogave Conservation Area it is an offence to do any of the following unless authorized by the management;

- 1. Carry on any agricultural or gardening activities
- 2. Build any dwelling house or unlawfully occupy the area
- 3. Light or cause any open fire to be started unless authorized on designated areas
- 4. Throw, litter, dump or release any chemical waste, sewage, refuse, or rubbish
- 5. Allow or introduce any grazing stock animal or breed invasive species
- 6. Erect, install or display any billboard, advertisement or promotional material
- 7. Cut, destroy or remove any plant or tree
- 8. Remove, extract, or excavate any sand or gravel
- 9. Hunt, kill, or slaughter any animal or other living creatures
- 10. Allow your dog to hunt, kill, or slaughter any animal or other living creatures
- 11. Destroy or deface any cultural object or monument of biocultural significance
- 12. Remove or be in possession of any cultural artefact or sacred objects
- 13. Remove any fossil, archaeological remain or paleontological specimen
- 14. Sow, propagate or introduce any exotic or invasive plant species
- 15. Significantly alter or change the natural flow of a river or stream
- 16. Use a vehicle, bull-dozer or other heavy machinery other than that complying with the dimensions specified by the management
- 17. Organise or participate in any public meeting, demonstration or gathering
- 18. Wilful obstruction of a HCA Forest Ranger in the course of his/her duties

Authorised Activities

The following activities have been authorized by the HCC Management:

- 1. Members of Hogave community may take or remove any plants, or animals for medicinal purposes if approved by the Board but excludes animal and plant species that are special and endemic protected species
- 2. Members of Hogave community may take or remove any plant leaves, nuts, mushrooms or friuts naturally produced or spices from tree bark used for cooking
- 3. Members of the Hogave are permitted limited non-commercial extraction of timber and building materials for construction of buildings for approved Conservation projects.
- 4. Upon approval of the HCC Board, land within the conservation area may be developed to go towards conservation efforts such as bigger research facilities or endemic species breeding facilities.

Our Action Plan

Identified activities for implementation are listed in Table 1. Relative priorities are allocated against each activity as follows:

- **High priority** activities are those essential to achievement of the objectives and desired outcomes. They must be undertaken in the near future to avoid significant deterioration in natural, cultural or management resources
- **Medium priority** activities are those that are necessary to achieve the objectives and desired outcomes but are not urgent
- Low priority activities are desirable to achieve management objectives and desired outcomes but can wait until resources become available
- Ongoing is for activities that are undertaken on an annual basis or statements of management intent that
 will direct the management response if an issue arises.

This plan of management does not have a specific term and will stay in force until amended or replaced in accordance with the Amended Conservation Areas Act 1978.

Annual Operations Plan

To guide the implementation of the HCC Conservation Management Plan, an Annual Operations Plan will be prepared on annual basis and reported to relevant stakeholders in line with Table 1 Management Actions. An annual report must be furnished by HCC Management covering the operation, challenges faced and outcomes during the year for the HCC Boad and relevant project partners where required.

Table 1: Management Actions:

Action No.	Management Actions	Priority
Action No.	Our Landscape and Ecosystems	Priority Level
A.1	Prohibit commercial harvest of all forest resources	Ongoing
	from Hogave Conservation Area	
A.2	Prevent human settlement encroaching on primary	High
	forest area.	
A.3	Periodic inventory, review and monitoring of some	Medium
	major animal and plant species to measure the health	
	of the forest.	
A.4	Prohibit human loitering near drinking water source	Ongoing, High
A.5	Community resolution to conserve forest will continue	Medium
	to be reinforced in the community.	
A.6	Initiate relevant steps to registering HCA as a national	High

	protected area under appropriate law.	
A.7	Ensure Road construction companies and workers are	High
	sensitive when constructing or fixing roads running	
	through the conservation area.	
Action No.	Our Plants & Animals - Flora & Fauna	Priority Level
A.1	Prohibit commercial hunting and collection of animal and plants within the conservation area.	Ongoing
A.2	Sustainable collection, hunting or harvesting of forest resources is prohibitted from forest areas, streams and rivers unless authorized by the HCC board.	Ongoing
A.3	Educate tribal members continuously on plant and animal life present in the conservation area and the need to protect them.	Ongoing, Medium
A.4	Forest Rangers are to check that there is no prohibited activity going on in the area.	High
A.5	Prohibit Domestic animals roaming in the forest. Keep control over any domesticated animals in the village.	Ongoing, Medium
A.6	Do not introduce and look after invasive species (e.g. rabbits)	Ongoing
A.7	Look into breeding programs for repopulating special & endangered species where possible, e.g. Blue Bird of Paradise.	High
A. 8	Where possible increase forest cover across secondary growth through reforestation	Medium
A. 9	Make a awareness pamphlets (or poster) from the studies done in the area presenting data to support and facilitate biodiversity research and promotion.	High
Action No	Threatened Species of Focus: Blue Bird Of Paradise (Paradisea rudolphi)	Priority Level
A.1	Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones.	Medium
A.2	Strengthen prohibitions on threatened species killing with higher penalties.	High
A.3	Restore their habitats by reforestation programs	High
A.4	Replenish their favorite fruit trees or shrubs	High
A.5	Remove identified invasive or predator species (dogs that hunt birds).	High
A.6	Survey and tracking species population	High
Action No.	Hogave People & Culture	Priority Level
A.1	Encourage the people of Hogave tribe to continue their caring hospitality to outside visitors	Ongoing
A.2	Encourage the people of Hogave tribe to continue practicing the use of traditional knowledge and techniques for natural resource management.	Medium
A.3	Promote and encourage projects that preserve their culture and tradition such as traditional salt making	Medium
A.4	Make an inventory and description (photos and GPS) of all cultural important sites within the area.	Medium
		·
A.5	Draft a culturally appropriate Code of Conduct for visitors to HCA and the village.	Medium

	about the partnerships through pre-arranged	
	community meetings and ensure community	
	members are clearly aware of different partnerships	
	and visitors.	
Action No.	Research Study Facility & Environment	Priority Level
A.1	Promote and facilitate scientific research activities. For example; advertise to relevant institutions or companies.	Medium
A.2	Apply Forest Conservation Area fees to contribute to the administration and management of HCA.	Low
A.3	Establishment proper finacial records and practice to record how the money is being spent for accountability and transparency.	High
A.4	Seek funding support to assist with various projects that will better facilitate HCA research activities.	Medium
A.5	Ensure equal benefit from researchers visiting and project activities.	Medium
Action No.	Improved Sources of Income	Priority Level
A.1	Help organize training workshops by experts on possible livelihood opportunities such as vanilla	Ongoing
	farming, coffee export and honey farming.	
A.2	Provide basic financial management training and assist the community to access basic information on savings e.g, How to open a bank account.	Medium
A.3	Women are specifically encouraged to take part in	High
	these niche comercial farming and and financial literacy activities.	
A.4	HCC will look at avenues to assist women's farming and marketing such as providing transportation for their market produce to town.	Medium
A.5	Investigate alternate livelihood initiatives available and establish partnership and learning networks.	High
A.6	Continue existing income generating activities and projects for the community.	
A.7	Form valuable partnerships with NGOs to support in the conservation efforts of the Hogave People.	Medium
Action No.	Home Improvement	Priority Level
A.1	Partner with project partners and continue to facilitate various development projects to improve the livelihood of the Hogave community as incentive for forest conservation.	Medium
A.2	Pigs to be looked after in fences and not roaming freely in the village.	Medium
A.3	Every home and family must have their own toilets. Public toilets to be reconstructed at the roadside so that people do not wonder into the forest to relieve themselves.	High
A.4	Where possible, assist the villagers build permanent or semi-permanent homes	Medium
A.5	Every home area should be kept clean and free from pests like rodents and other health hazards.	Medium
Action No.	Basic Health & Education	Priority Level
A.1	Evaluate Hogave community's accessibility to basic	Medium

	health services.	
A.2	Discuss possible options to improve the health services to Hogave.	Medium
A.3	Provide assistance where possible to the Hogave Elementary School.	Medium
A.4	Facilitate and support adult literacy trainning program.	Medium
A.5	Gauge views from the community on challenges they face with regard to basic health and education and assist where possible.	Medium
Action No.	Conservation Trainning and Capacity Building	Priority Level
A.1	In partnership with relevant organization seek training workshop for Hogave community members on biodiversity conservation and monitoring.	Ongoing
A.2	Six designated community rangers to conducting monitoring in HCA.	High
A.3	Participation of <i>Conservation Rangers</i> and management in a <i>Look and Learn</i> visit to other Sites.	Medium
A.4	Participation of HCC Management members in a <i>Look</i> and <i>Learn</i> visit to other Sites.	Medium
A.5	Encourage various mamnagement training for HCC Management and Hogave Villagers regarding project relevant skills.	High
Action No.	Monitoring and Enforcement	Priority Level
A.1	Conduct regular education and awareness activities with schools, communities, and relevant stakeholders.	Medium
A.2	Post public notices of HCA rules and penalties within the HCC and relevant notice boards	Low
A.3	Training and the selection of Rangers. Organize training workshop on monitoring and enforcement of HCA regulations.	High
A.4	Develop and establish monitoring and enforcement program for rangers in Forest Ranger Manual	High

Monitoring, Evaluation and Review of the Plan

It is important to check that the plan is on track to achieve the objectives, outcomes and vision for the protected area. We need to measure progress and collect information to confirm the status of the values and to determine whether or not threats are under control. One of the strategies in this plan is to put together a monitoring and evaluation program.

Table 2 summarizes the indicators associated with each management action discussed in Table 1 as already discussed above. Indicators will be monitored and measured to determine whether or not the individual targets for each value are being achieved. The proposed methods for measuring the indicators are also presented.

Table 2. List of Indicators for the Monitoring and Evaluation Program

VALUE	INDICATORS	MONITORING METHOD
CATEGORY		
Our	A.1 Level of compliance regarding prohibition of	Observations from Forest Rangers
Landscape	commercial harvest of all forest resources	
and	A.2 Prevented human settlement encroaching on	Monitoring by Forest Rangers
Ecosystems	primary forest area.	
	A.3 Periodic inventory and monitoring of some major	Field surveys by scientists and
	animal and plant species to measure forest health. At	biologists with community
	least onc <mark>e e</mark> very five (5) years.	assist <mark>an</mark> ts
	A.4 Clean, uncontaminated drinking water source	Monitoring by Forest Rangers
	A.5 Number of meeting where community resolution	Report by Coor <mark>din</mark> ator
	to conserve forest reinforced to the community.	
	A.6 Discussions and research done and documents	Annual Opreations Report by HCC
	prepared for registering HCA as a national protected	Management
	area	
	A.7 No damaged landscape from poor road	Monitoring by Forest Rangers
	construction by road construction companies	
Value	Indicator	Monitoring Method
Category		
Our plants	A.1 Level of compliance regarding prohibition of	Observations from Forest Rangers
and animals –	commercial hunting or collection of animal and plants	
Flora	A.2 Sustainable collection, hunting or harvesting of	Monitoring by Forest Rangers
& Fauna	forest resources is prohibitted from forest areas,	
	streams and rivers unless authorized by the HCC board.	
	A.3 Level of knowledge and understanding of	Community Surveys and
	community members on plant and animal life and the	Interviews by community
	need to protect them.	assistants
	A.4 No prohibited activity going on in the HCA	Field Monitoring by Forest
		Rangers
	A.5 No domestic animals roaming in the forest and	Monitored by Forest Rangers
	close control over any domesticated animals looked	
	after in the village.	
	A.6 No invasive species introduced (e.g. rabbits)	Monitored by Forest Rangers
	A.7 Research done on potential breeding programs for	Researchers/Scientists
	special & endemic species. Increased BOP population.	Annual Operations Report
	A. 8 Increased forest cover across secondary growth	HCC Coordinator
		Annual Opperations Report
	A. 9 Publish one awareness pamphlet (or poster) from	Annual Operations Report by HCC
	the studies done in the area to promote biodiversity	Management
	research.	
Value	Indicator	Monitoring Method

Category		
Hogave	A.1 Continued caring hospitality to outside visitors	HCC Management Observation
People &	A.2 Traditional knowledge and techniques for natural	Community surveys by
Culture	resource management captured and passed on to	community assistants
	youth.	
	A.3 Culture and traditional practice passed on to	Community surveys by
	young generation such as traditional salt making	community assistants
	A.4 Inventory made with description culturally	Inventory by HCC Coordinator and
	important sites within the area.	Forest Rangers.
	A.5 Code of Conduct for visitors upon arrival in HCA	HCC Management
	A.6 Community members awareness level of different	Community surveys by
_	partnerships and visitors.	community assistants
Value	Indicator	Monitoring Method
Category		
Threatened	A.1 Greater awareness amongst locals about	Community surveys by
Species of	conserving the threatened species	community assistants
Focus: Blue Bird Of	A.2 Stong prohibition established in HCA	HCC Management
Paradise	A.3 Restored habitat of species in focus	HCC Coordinator and Forest
(Paradisea	A.4 Replenished favourite fruit/food tree	Rangers and community assitants HCC Coordinator and Forest
rudolphi)	A.4 Repletiished lavourite if uit/100d tree	Rangers and community assitants
radolpinj	A.5 Invasive or predator species (dogs that hunt	Monitored by Forest Rangers
	birds) removed and controlled.	Mointored by Porest Rangers
	A.6 Increased species population-Number of birds	Annual Operations Report by HCC
	increased	Management/Partner Scientist
Value	Indicator	Monitoring Method
Category		
Benefits and	A.1 Number of scientific research institutions or	Annual Operations Report by HCC
Opportunities:	companies interested in coming to HCA	Management
Research Study Facility	A.2 Amount of fees collected to contribute to the	HCC Director and Management
&	administration and management of HCA. A.3 Proper finacial records for accountability and	HCC Director and HCC
Environment	transparency.	Management
Liivironmene	A.4 Seek funding support to assist with various	HCC Director and HCC
	projects that will better facilitate HCA research	Management
	activities.	Management
	A.5 Record on distribution of assistance payment by	HCC Director and HCC
	researchers visiting and other project activities.	Management
Value	Indicator	Monitoring Method
Category		
Benefits and	A.1 Number of Community participants in training	HCC Coordinator
Opportinities:	workshops by expe <mark>rts on poss</mark> ible livelihood	
Improved	opportunities	
Sources of	A.2 Increased knowledge in basic financial	Community Survey by community
Income	management or business skills training	assistants
	A.3 Number of women taking part in these niche	Survey
	comercial farming and and financial literacy activities.	
	A.4 A truck to transport market produce to town	Annual Operations Report
	A.5 Investigate one alternate livelihood initiative available and establish partnership	Annual Operations Report
	A.6 Existing income generating activities and projects	HCC Director and Management
	for the community continued.	
	A.7 Partnership with valuable partners established	HCC Director and Management
Value	Indicator	Monitoring Method
Category	A 1 Number of project proposals for gural community	UCC Director and Management
Benefits and	A.1Number of project proposals for rural community	HCC Director and Management

Opportinities:	development projects to improve the livlihood of the	
Home	Hogave community	
Improvement	A.2 No pigs roaming freely in the village or public	Monitoring by Forest Rangers
improvement	spaces	Wolfitoring by Forest Rangers
	A.3 One toilet for each family. Two or three public	Monitoring by Forest Rangers
	toilets reconstructed at the roadside.	Wollitoring by Forest Kangers
	A.4 Funding secured for home improvement. Number	HCC Director and Management
	of villagers with permanent or semi-permanent	Indo Birector and Management
	homes.	Survey by community assistants
	A.5 Number of clean home areas.	Survey by community assistants
Action No.	Indicator	Monitoring Method
Benefits and	A.1 Evaluation Report on Hogave community's	Interviews
Opportinities:	accessibility to basic health services	HCC Management
Basic Health &	A.2 Discussion by management done on possible	Report by HCC Coordinator
Education	options to improve the health services	repert by ride decreased
	A.3 Amount in PGK of assistance provided to the	Annual Operations Report
	Hogave Elementary School where possible	
	A.4 Number of adults participated in literacy trainning	Annual Operations Report
	and number of new literates	
	A.5 Survey Report on views for the community what	Report by HCC Coordinator
	they face challenges with regarding basic health and	
	education	
Value	Indicator	Monitoring Method
Value Category		Monitoring Method
		Monitoring Method Annual Operations Report
Category	Indicator	
Category Benefits and	Indicator A.1 At least one training workshop for Hogave	
Category Benefits and Opportinities: Conservation Trainning and	A.1 At least one training workshop for Hogave community members annually where possible	Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed	Annual Operations Report Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by	Annual Operations Report Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation	Annual Operations Report Annual Operations Report Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other	Annual Operations Report Annual Operations Report Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave	Annual Operations Report Annual Operations Report Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity Building	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual
Category Benefits and Opportinities: Conservation Trainning and Capacity Building	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value Category Monitoring and	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator A.1 Number of education and awareness activities done in a year	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value Category Monitoring	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator A.1 Number of education and awareness activities done in a year A.2 Number of people who are aware of rules and	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value Category Monitoring and	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator A.1 Number of education and awareness activities done in a year A.2 Number of people who are aware of rules and penalties	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method Annual Operations Report Community Survey
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value Category Monitoring and	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator A.1 Number of education and awareness activities done in a year A.2 Number of people who are aware of rules and penalties A.3 Number of Rangers and number of trainnings	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method Annual Operations Report
Category Benefits and Opportinities: Conservation Trainning and Capacity Building Value Category Monitoring and	A.1 At least one training workshop for Hogave community members annually where possible A.2 Number of community rangers appointed A.3 At least one Look and Learn visit to other Sites by all forest rangers A.4 At least one Look and Learn visit to other community based organizations and conservation sites by members of management A.5 Number of ananagement personnel and Hogave village members participating in various trainning Indicator A.1 Number of education and awareness activities done in a year A.2 Number of people who are aware of rules and penalties	Annual Operations Report Annual Operations Report Annual Operations Report Annual Operations Report HCC Coordinator/Annual Operations Report Monitoring Method Annual Operations Report Community Survey

Financial Inputs on Key Management Actions

Some of the major activities stated in the 'action plan' and 'monitoring and evaluation' will not be fully realized without the input of financial resources. It is therefore imperative that we have funding to successfully implement the activities shown in this action plan.

Table 3: Financial Inputs

Action No.	Management Actions	Priority Level	Funding Source	Amount
	Our Landscape and Ecosystems			
A.1	Prohibit commercial harvest of all forest resources from Hogave Conservation Area	Ongoing	нсс	-
A.2	Prevent human settlement encroaching on primary forest area.	High	нсс	-
A.3	Periodic inventory, review and monitoring of some major animal and plant species to measure the health of the forest.	Medium	НСС	5,000
A.4	Prohibit human loitering near drinking water source	Ongoing, High	НСС	-
A.5	Community resolution to conserve forest will continue to be reinforced in the community.	Medium		
A.6	Initiate relevant steps to registering HCA as a national protected area under appropriate law.	High	HCC & CEPA	10,000
A.7	Ensure Road construction companies and workers are sensitive when constructing or fixing roads running through the conservation area.	High	нсс	-
Action	Our Plants & Animals – Flora &	Priority Level	Funding Source	Amount
No.	Fauna			
A.1	Prohibit commercial hunting and collection of animal and plants within the conservation area.	Ongoing	НСС	-
A.2	Sustainable collection, hunting or harvesting of forest resources is prohibited from forest areas, streams and rivers unless authorized by the HCC board.	Ongoing	нсс	-
A.3	Educate tribal members continuously on plant and animal life present in the conservation	Ongoing, Medium	нсс	5,000

	area and the need to protect			
	them.			
A.4	Forest Rangers are to check that	High	НСС	_
	there is no prohibited activity			
	going on in the area.			
A.5	Prohibit Domestic animals	Ongoing, Medium	НСС	-
	roaming in the forest. Keep close			
	control over any domesticated			
	animals looked after in the			
A . C	village.		1100	
A.6	Do not introduce and look after	Ongoing	HCC	-
A 7	invasive species (e.g. rabbits)	II: -l-	HCC & Donor	20,000
A.7	Look into breeding programs for	High	HCC & Donor	20,000
	repopulating special &			
	endangered species where possible, e.g. Blue Bird of			
	Paradise.			
A. 8	Where possible increase forest	Medium	НСС	_
11.0	cover across secondary growth	- Tourum	1100	
	through reforestation			
A. 9	Make awareness pamphlets (or	High	HCC & Donor	10,000
	poster) from the studies done in	8		
	the area presenting data to			
	support and facilitate			
_				
	biodiversity research and			
	biodiversity research and promotion.			
Action No	•	Priority Level	Funding Source	Amount
Action No	promotion.	Priority Level	Funding Source	Amount
Action No	promotion. Threatened Species of Focus:	Priority Level	Funding Source	Amount
Action No A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness	Priority Level Medium	Funding Source HCC	Amount 5,000
	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on			Y C
	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and			Y C
	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes			Y
	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill			Y C
A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones.	Medium	НСС	Y C
	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on			Y C
A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with	Medium	НСС	Y
A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties.	Medium	HCC HCC	5,000
A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by	Medium	НСС	Y C
A.1 A.2 A.3	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs	Medium High	HCC HCC	5,000
A.1	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by	Medium	HCC HCC	5,000
A.1 A.2 A.3	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit	Medium High High	HCC HCC	5,000
A.1 A.2 A.3 A.4	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs	Medium High	HCC HCC HCC	5,000
A.1 A.2 A.3 A.4	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs Remove identified invasive or	Medium High High	HCC HCC HCC	5,000
A.1 A.2 A.3 A.4	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs Remove identified invasive or predator species (dogs that hunt	Medium High High	HCC HCC HCC	5,000
A.1 A.2 A.3 A.4 A.5	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs Remove identified invasive or predator species (dogs that hunt birds).	Medium High High High	HCC HCC HCC HCC	5,000
A.1 A.2 A.3 A.4 A.5	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs Remove identified invasive or predator species (dogs that hunt birds). Survey and track species	Medium High High High	HCC HCC HCC HCC	5,000
A.1 A.2 A.3 A.4 A.5	promotion. Threatened Species of Focus: Blue Bird of Paradise (Paradisea rudolphi) Run education and awareness programs for locals on conserving this species and looking after their old plumes well so that they don't have to kill new ones. Strengthen prohibitions on threatened species killing with higher penalties. Restore their habitats by reforestation programs Replenish their favorite fruit trees or shrubs Remove identified invasive or predator species (dogs that hunt birds). Survey and track species population	Medium High High High High	HCC HCC HCC HCC	5,000

	to continue their caring for			
	nature and show hospitality to			
	outside visitors			
A.2	Encourage the people of Hogave	Medium	HCC	-
	tribe to continue practicing the			
	use of traditional knowledge and			
	techniques for natural resource			
	management.			
A.3	Promote and encourage projects	Medium	HCC & Donor	20,000
	that preserve their culture and			
	tradition such as traditional salt			
	making			
A.4	Make an inventory and	Medium	HCC & Donor	20,000
	description (photos and GPS) of			
	all cultural important sites within			
	the area.			
A.5	Draft a culturally appropriate	Medium	HCC, CEPA &	5,000
	Code of Conduct for visitors to		Donor	
	HCA and the village.			
A.6	Inform and clearly explain to	Ongoing	HCC	-
	community members about the			
	partnerships through			
	pre-arranged commu <mark>ni</mark> ty			
	meetings and ensure community			
	members are clearly aware of			
	different partnerships and			
	visitors.			
Action	Research Study Facility &	Priority Level	Funding Source	Amount
No.	Environment			
A.1	Promote and facilitate scientific	Medium	HCC & CEPA	5,000
	research activities. For example;			
	advertise to relevant institutions			
	advertise to relevant institutions or companies.			
A.2	advertise to relevant institutions or companies. Apply Forest Conservation Area	Low	нсс	-
A.2	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the	Low	НСС	-
A.2	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management	Low	нсс	-
	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA.			-
A.2 A.3	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial	Low	НСС	-
	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record			-
	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for			-
A.3	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency.	High	нсс	-
	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist			-
A.3	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will	High	нсс	-
A.3	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research	High	нсс	-
A.3 A.4	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research activities.	High Medium	HCC & CEPA	-
A.3	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research activities. Ensure equal benefit from	High	нсс	-
A.3 A.4	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research activities. Ensure equal benefit from researchers visiting and project	High Medium	HCC & CEPA	-
A.3 A.4	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research activities. Ensure equal benefit from	High Medium	HCC & CEPA	-
A.3 A.4	advertise to relevant institutions or companies. Apply Forest Conservation Area fees to contribute to the administration and management of HCA. Establishment proper financial records and practice to record how the money is being spent for accountability and transparency. Seek funding support to assist with various projects that will better facilitate HCA research activities. Ensure equal benefit from researchers visiting and project	High Medium	HCC & CEPA	-

Action	Improved Sources of Income	Priority Level	Funding Source	Amount
No.				
			1100 0	
A.1	Help organize training workshops by experts on	Ongoing	HCC, Donor & CEPA	-
	possible livelihood opportunities		CEPA	
	such as vanilla farming and			
	export, coffee export and honey			
	farming.			
A.2	Provide basic financial	Medium	HCC & Donor	-
	management training and assist			
	the community to access basic			
	information on savings e.g., How			
	to open a bank account.			
A.3	Women are specifically	High	HCC, Donor &	10,000
	encouraged to take part in these		CEPA	
	niche commercial farming and			
	financial literacy activities.	M. J.	HCC 0 D	
A.4	HCC will look at avenues to assist	Medium	HCC & Donor	-
	women's farming and marketing such as providing transportation			
	for their market produce to town.			
A.5	Investigate alternate livelihood	High	HCC, Donor &	20,000
A.J	initiatives available and establish	ing.	CEPA	20,000
	partnership and learning		02111	
	networks.			
A.6	Continue existing income		НСС	-
	generating activities and projects			
	for the community.			
A.7	Form valuable partnerships with	Medium	НСС	-
	NGOs to support in the			
	conservation efforts of the			
Action	Hogave People.	Dui a witer I arral	Funding Course	Amanumt
No.	Home Improvement	Priority Level	Funding Source	Amount
A.1	Partner with project partners and	Medium	НСС	-
	continue to facilitate various			
	development projects to improve			
	the livelihood of the Hogave			
	community as incentive for forest			
	conservation.			
A.2	Pigs to be looked after in fences	Medium	НСС	-
	and not roaming freely in the			
	village.			
A.3	Every home and family must have	High	НСС	-
	their own toilets. Public toilets to			
	be reconstructed at the roadside			
	so that people do not wonder into the forest to relieve themselves.			
A.4	Where possible, assist the	Medium	CEPA & Donor	_
71.7	יייווכוב שטטטוטוב, מטטוטו נווב	Mediulli	CLI A & DUIIUI	

	villagers build permanent or			
	semi-permanent homes			
A.5	Every home area should be kept	Medium	HCC	-
	clean and free from pests like			
	rodents and other health hazards.			
Action	Basic Health & Education	Priority Level	Funding Source	Amount
No.				
A.1	Evaluate Hogave community's	Medium	HCC & Donor	-
	accessibility to basic health			
	services.			
A.2	Discuss possible options to	Medium	HCC, Gov't &	-
	improve the health services to		CEPA	
	Hogave.			
A.3	Provide assistance where	Medium	Gov't Education	10,000
	possible to the Hogave		Office	
	Elementary School.			
A.4	Facilitate and support adult	Medium	HCC & Gov't	5,000
	literacy training program.			
A.5	Gauge views from the community	Medium	Gov't Health	-
	on challenges they face with		Office	
	regard to basic health and			
	education and assist where			
A -11	possible.	Detector I and	F - 1' - C	A
Action No.	Conservation Training and	Priority Level	Funding Source	Amount
A.1	Capacity Building In partnership with relevant	Ongoing	HCC & CEPA	10,000
A.1	organization seek training	Oligonig	HCC & CEPA	10,000
	workshop for Hogave community			
	members on biodiversity			
	conservation and monitoring.			
A.2	Six designated community	High	HCC & CEPA	57,600
	rangers to conducting monitoring	8		31,555
	in HCA.			
A.3	Participation of Conservation	Medium	СЕРА	5,000
	Rangers and management in a			
	Look and Learn visit to other			
	Sites.			
A.4	Participation of HCC Management	Medium	HCC & CEPA	5,000
	members in a <i>Look and Learn</i>			
	visit to other Sites.			
A.5	Encourage various management	High	HCC, CEPA &	10,000
	training for HCC Management		Donor	
	and Hogave Villagers regarding			
	project relevant skills.			
Action	Monitoring and Enforcement	Priority Level	Funding Source	Amount
No.				
A.1	Conduct regular education and	Medium	HCC	5,000
	awareness activities with schools,			
	communities, and relevant			
	stakeholders.			

A.2	Post public notices of HCA rules	Low	нсс	5,000
	and penalties within the HCC and			
	relevant notice boards			
A.3	Training and the selection of	High	HCC & CEPA	20,000
	Rangers. Organize training			
	workshop on monitoring and			
	enforcement of HCA regulations.			
A.4	Develop and establish monitoring	High	HCC & Donor	20,000
	and enforcement program for			
	rangers in Forest Ranger Manual			
Admin & L	ogistics 10% of total costs			35,260
Sub Total		332,600		
Grand Total Annual Budget				367,860

Summary

The management plan summarizes the history of the Hogave Conservation Area. The plan provides a description of the site, the flora and fauna and the significance of its conservation. The plan also presents the vision, objectives and descriptions of rules and regulations in the area, and lists the management, governance and monitoring of the Hogave Conservation Area. The plan also shows where finance will be required to successfully implemts its projected activites.

As such, it is meant to provide a clear guideline for the Hogave Conservation Board Members, Staff and Hogave tribe members to manage and administer the area in a most proper and beneficial way for present and future generations.

Reference

- i. Hogave Mini -RAP Survey Report by PNG Institute of Biological Research, November 2009
- ii. Conservation Areas Act 1978
- iii. Vuri Forest Conservation Area Management Committee (VFCAMC). Sasamuqa, Choiseul Province. Solomon Islands May 2021

Appendices

Appendix 1. Chart of Account -HCC Project Activity/Operation Budget

Prepared by: Oino Paku Ted

CHART OF ACCOUNT - HCC PROJECT ACTIVITY/OPERATION BUDGET

Project Name
Project Period
Current

Duration
Funding Budget (K):

Hogave Conservation Programme
Current

524,750.00

3 434()	Year 1 Fiscal Year 2023				
		100.111		Ne	Total
BUDGET	Unit	Priority Level	Cost/Unit PGK	No. units	Total PGK
Activity Personnel					
Project Staff (list by position)					
Director/Project Manager	month		3,000.00	12	36,000.00
Coordinator	month		2,000.00	12	24,000.00
Assistant Coordinator	month		1,500.00	12	18,000.00
Expat Consultancy	month		3,000.00	6	18,000.00
Local Consultancy/ Professionals	month		1,300.00	12	15,600.00
Board Members BOM Allowances (13)	month		3,900.00	12	46,800.00
Bush Rangers 1	month		900.00	12	10,800.00
Bush Rangers 2	month		900.00	12	10,800.00
Bush Rangers 3	month		900.00	12	10,800.00
Bush Rangers 4	month		900.00	12	10,800.00
Bush Rangers 5	month		900.00	12	10,800.00
Bush Rangers 6	month		900.00	12	10,800.00
Community Assistants and Volunteers (10)	month		500.00	12	6,000.00
Subtotal Activity Personnel	month		300.00	12	229,200.00
Non Personnel Inputs					223,200.00
Computers (incl UPS)	CUM		2,500.00	3	7,500.00
Cameras	sum		1,500.00	2	3,000.00
Phones	sum		200.00	5	
	sum			5	1,000.00
Other equipment Subtotal Activity Non Personnel Inputs	sum		2,000.00	3	10,000.00 21,500.0 0
Activity Costs					21,300.00
Outcome 1 - Training & Capacity Building for Management/Rangers					
Biodiversity Conservation & Monitoring Workshop	cum		20,000.00	1	20,000.00
Look & Learn Site Visits at other Conservation Sites	sum		350.00	15	5,250.00
	sum			15	
Improved Basic Finance Management Training Skills	sum		300.00		4,500.00
Inventory & Description of all Cultural Important Sites (Photos & GPS)	sum		500.00	10	5,000.00
Drafting of Code of Conduct for Visitors	sum		100.00	15	1,500.00
Establishment and Application of Forest Ranger Manual	sum		300.00	10	3,000.00
Subtotal Objective 1 Outcome 2 - Hogave People & Culture					39,250.00
Promote Traditional Knowledge & Techniques for Natural Resource Management	sum		20,000.00	1	20,000.00
<u> </u>					
Awareness Pamphlets to Facilitate Biodiversity Conservation Promotion	sum		10,000.00	1	10,000.00
Awareness on Community Caring & Hospitality Support	sum		2,000.00	1	2,000.00
Pre-arrangement Meetings & Preparations for Various Visitors & Partnerships Subtotal Objective 2	sum		2,000.00	1	2,000.00 34,000.00
Outcome 3 - Environment Conservation Sustainability Actions					34,000.00
3.1 Landscape & Ecosystems Conservation;					
3.1.a - Prohibition of Commercial Harvests of Forest Trees	HCC Personnel				
3.1.b - Prohibition of Human Settlement on Primary Forest Area	HCC Personnel				-
3.1.c - Prohibition of Human Loitering Near Drinking Water Source	HCC Personnel				_
3.1.d - Construction of Public Toilets Along the Conservation Road Side	HCC Personnel				
5. 1.u - Construction of Fublic Tollets Along the Conservation Road Side	1100 reisonnel				-

3.1.e - Precautions by Road Contractors along the Conservation Vicinity	HCC Personnel			
3.1.f - Periodic Inventory Review & Measure of the Forest Condition	sum	5,000.00	1	5,000.00
,			1	
3.1.g - Stakeholders Research & Steps to Register HCA as a National Protected Area 3.2 Plants & Animals - Flora & Fauna	sum	10,000.00	1	10,000.00
	HCC Personnel			
3.2.a - Prohibition of Commercial Hunting				\
3.2.b - Sunstainable Hunting is Prohibited Unless Authorised by HCC Board	HCC Personnel			
3.2.c - Educate Tribal Members on the Need to Conserve the Flora & Fauna	sum	5,000.00	1	5,000.00
3.2.d - Forest Rangers to Affirm that No Prohibited Activity is Done	HCC Personnel			-
3.2.e - Prohibition of Domestic Animals Entering the Forest	HCC Personnel			-
3.2.f - Prohibition of the Introduction of Invasive Species	HCC Personnel			-
3.2.g - Endangered Species Repopulation Program (eg.Blue Bird Of Paradise)	sum	20,000.00	1	20,000.00
3.2.h - High Penalties for Killing of Threatened Species	HCC Personnel			-
3.2.i - Replenishment of Forest Cover (Fruits/Shrubs) by Reforestation Program	sum	15,000.00	1	15,000.00
Subtotal Objective 3				55,000.00
Outcome 4 - Improved Community Livelihood				
4.1 Sources of Income				
4.1.a - Livelihood Training on Intensive Farming by Established Experts	sum	20,000.00	1	20,000.00
4.1.b - Basic Financial Savings & Management Training	HCC Personnel			-
4.1.c - Highly Engage Women into Farming Businesses	sum	10,000.00	1	10,000.00
4.1.d - Continue Existing Income Generating Projects/Activities	HCC Personnel			
4.2 Home Improvements				
4.2.a - Facilitate Development Projects from People's Conservation Incentives	sum			
4.2.b - Individual Family to have Pigpens	sum	15,000.00	1	15,000.00
4.2.c - Every Home to have Appropriate Lavatory Access	HCC Personnel	13,000.00	1	13,000.00
				-
4.2.d - Building of Semi Permanent to Permanent Homes (donors)	sum			-
4.2.e - Clean & Pest Free Homes	HCC Personnel			45 000 00
Subtotal Objective 4				45,000.00
Outcome 5 - Basic Health & Education				
Evaluation & Establishment of Health Service Accessibility (govt/donors)	sum			-
Aid for Current Elementry School	sum	10,000.00	1	10,000.00
Facilitate the Support of Adult Literacy Programe	sum	5,000.00	1	5,000.00
Subtotal Objective 5				15,000.00
Outcome 6 - Research Study Facility & Environment				
Promote Scientific Research Activity through Advertisments	sum	5,000.00	1	5,000.00
Ensure Researchers Achieve Satisfaction on Study & Project Activities	HCC Personnel			-
Subtotal Objective 6				5,000.00
Outcome 7 - Perfomance Monitoring & Enforcement Evaluation				
Regular Revisit to Community, Schools & Stakeholders on Conservation Awareness	HCC Personnel			-
Update Notice Boards of HCA Rules & Penalties	sum	5,000.00	1	5,000.00
Rangers Revision Workshop on Monitoring & Enforcement of HCA Regulations	year	15,000.00	1	15,000.00
Audit of Financial Records for Accountability & Transparency	sum	5,000.00	1	5,000.00
Subtotal Objective 7				25,000.00
OPERATIONS SUPPORT COST (Goroka)		500.05	40	
Direct Office Costs	month	500.00	12	6,000.00
Maintenance & Fittings Travel And Transport	month	350.00 700.00	12 12	4,200.00 8,400.00
Vehicle Maintenance	month	2,200.00	6	13,200.00
Premises & Occupation	month	2,000.00	12	24,000.00
Subtotal Operations Support				55,800.00
GRAND TOTAL				524,750.00

Appendix 2. Table of Birds, Mammals & Ants

Number	Group	Taxa	Common Name	HRC 2119- 2179m	Camp1 2292- 2384m	Camp2 2800m
1	Acanthizidae	Gerygone cinerea Sericornis nouhuysi	Grey Gerygone Large Scrub Wren Papuan Scrub	~	1	~
2		Sericornis papuensis [= Collared Sparrowhawk Accipiter	Wren a small Accipiter	~	~	~
2	Acciptridae	cirrhocephalus?] Henicopernis longicauda	Long-tailed Buzzard	~		
3	Aegothelidae Apodidae	Aegotheles insignis Collocalia esculenta	Mountain Owlet Nghtjar Glossy Swiftlet	_	~	~
	Artamidae	Artamus maximus	Great Wood		1	
6	Cassuaridae	Casuarius bennetti [= Claret-breasted Fruit-dove Ptilinopus viridis?]	Swallow Dwarf Cassowary a red bellied Fruit- Dove	-	~	
		Gallicolumba beccarii Gymnophaps albertisii	Bronze Ground- dove Papuan Mountain			-
7	Columbidae	Macropygia amboinensis	Pigeon Brown Cuckoo-	~	~	~
		Ptilinophus rivoli	Dove White-breasted	~	~	~
8	Cracticidae	Peltops montanus – identified from Schellenberg photo taken at Hogave	Fruit-Dove Mountain Peltops	4	7	
9	Dicaeidae	Melanocharis versteri	Fantail Berrypecker		~	~
		Amalocichla incerta	Lessor-ground Robin		~	~
10	Eopsaltridae	Microeca papuana Peneothello cyanus	Canary flycatcher Blue-grey Robin White-winged	4	Ĭ.	7
		Peneothello sigillatus	Robin Black-throaed			~
11	Estrildidae	Poecilodryas albonotata Erythrura trichroa	Robin Blue face Parrot Finch Orange-crown	~	~	~
12	Maluridae	Clytomyias insignis Honeyteater Myzomela rosenbergii	Fairywren Red-collared Myzomela		~	~
		Melidectes rufocrissalis	Yellow-browed Honeyeater	~	~	
		Melidectus belfordi	Belford's Melidectus Common Smoky		~	-
13	Meliphaidae	Melipotes fumigatus	Honeyeater Rufous-backed	~	~	~
		Ptiloprora guisei Ptiloprora perstriata	Honeyeater Grey-streaked Honeyeater		~	~
		Toxorhamphus poliopterus	Slaty-chinned Long-billed		~	-
14 15	Neosittidae Orthonychidae	Daphoenositta chrysoptera (white- headed form) Ifrita kowaldi	Varied Sitella Blue-capped Ifrita	~	0	7
16	Pachycephalidae	Eulacestoma nigropectus Pachycephala rufinacha	Wattled Poughbill Rufous-naped Whistler			~
		Pachycephala schlegelli Rhagologus leucostigma	Regent Whistler Mottled Whistler		~	~
		Cnemophilus Ioriae Cnemophilus macgregorii	Loria's BoP Crested BoP	~	~	~
17	Paradisaeidae	Epimachus fastuosus Lophorina superba	Black Sickle Bill Superb Bird of Paradise	-	_	
		Parotia Lawessii	Lawes Parotia	~	~	
						10
		[= Double-eyed Fig-Parrot Cyclopsitta diophthalma?]	a Fig-Parrot species	4		
18	Psittacidae	Chharmosyna papou Neopsittacus musschenbroekii	Papuan Lorikeet Yellow-billed Lorikeet		-	
19	Ptilonorhyncidae	Oreocharis arfaki Amblyornis macgregoriae	Tit Berrypecker Macgregor's Bowerbird		4	7
20	Rhipiduridae	Ambiyornis macgregoriae Rhipidura albolimbata Rhipidura atra	Friendly Fantail Black Fantail	-	3	
21	Sylviidae	Crateroscelis robusta Phylloscopus poliocephalus	Mountain Mouse Warbler Island Leaf-warbler		3	~
22	Zosteropide	Zosterops novaeguineae	New Guinea White-eye		~	
			Summary Total Species recorded at each			
			site Species Shared	22	34	25
			Species shared			7
			between site 2 & 3 Species shared			14

Table 2. Trap effort for the Mt.Michael mini RAP July 2009

Survey Site	Date	Trap type	# of traps	# of nights	Trap nights
Camp 1 (2400m)	8 -9 July 2009	Live Elliot	30	5	150
	10 - 12 July 2009	Harp traps	2	5	10
		Snap traps	15	4	60
		Mist- nets	Used bird nets	5	
Camp 2 (2800m)	15 - 17 July 2009	Live Elliot	36	3	108
		Snap traps	11	3	33
		Mist- nets	Used bird nets		361

Table 3.Mammals caught at the two elevations during the mini RAP

			Frequency/Elevation		
Small mammal types	Common name	Scientific name	2400 m	2800 m	Total
Non-Volant mammals	Mountain Melomys	Paramelomys rubex	10	2	12
	Moss-forest rat	Rattus niobe	8	6	14
Volant mammals	Mountain Pipistrelle Mountain Tube-nosed	Pipistrellus collinus	1	0	1
	bat	Nyctimene certans Syconycteris	0	6	6
	Common Blossom-bat	australis	1	7	8
	Total	5	20	21	41

Table 4: Morpho-species list of ants from Mt.Michael, Hogave, Eastern HighlandsProvince. An X shows ant species present at that elevation

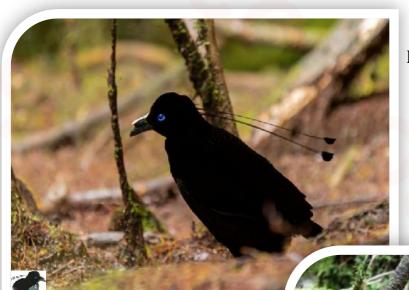
		Site, Elevation and Species Distribution			
Subfamily	Morpho-species	Hogave Resource Centre 2119-2179m	Kavoyakotutai Camp1 2292-2384m	Ulusulu'i Camp2 2800m	
	Ochtellus sp	X			
	Philidris sp1	X			
Dolichoderinae	Philidris sp2		X		
	Technomyrmex albipes	X			
Formicinea	Paratrechina sp2		X		
Myrmicinae	Apheanogaster sp1 Monomorium sp2	X	X		

Total	23	11	13	0
	Proceratium sp1	X		
	Ponera sp1	X		
Ponerinae	Onychomyrmex sp1		X	
Ponerinae	Hypoponera sp1		X	
	Discothyrea		X	
	Amblyopone sp1	X		
	Vollenhovia sp3	X		
	Vollenhovia sp2	77.5	X	
	Vollenhovia sp1	X		
	Tetramorium sp1		X	
	Tetramorium pacificum	X	X	
	Strumigenys sp2		X	
	Strumigenys sp1		X	
	Pheidole sp3		X	
	Pheidole sp2	X		
	Pheidole sp1		X	

Iconic Birds in Hogave Conservation



Superb Bird of Paradise at Hogave Conservation
Area



Lowes Parotia at Hogave Conservation

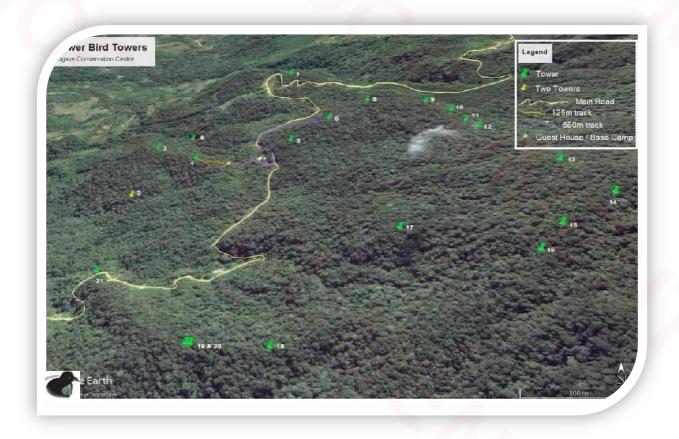
Lowes Parotia in the height of performance, taken at Hogave Conservation Area

McGregor's Bower Bird



McGregor's Bower Bird constructing his tower at Grampa's Walk, Hogave Conservation Area.

Below is the Satellite city map for McGregor's Bower Bird at Hogave Conservation Area. These McGregor's Bower Bird's Dancing Arenas were found for Wildsrar TV Film Crew 2022.



Common Birds found in Hogave







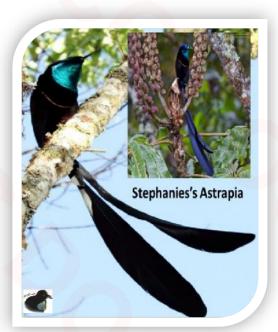




Common Birds and Animals found in Hogave



Echidna taken at Hogave Lower Land Conservation Area







Appendix 3. Memorandum of Understanding by Traditional Chiefs of Hogave

10 Memorandum
whom it may concern Hogave, 8/12/90
Dear Donor,
of Mt. Michael, would like to express our strong wish to make our forest a protected area. This beautiful
virgin forest is inhabited by many animals and plants, gives us a comfortable climate, water to drink and planty to eat, and will be the treasure of our children. We want to protect this forest so that it may last forever
did, we want to take care of our fevert and the ancestors rest there in peace and quietness.
Therefore we request our government to gazett Hogave-forest as "Hogave - Nationalpare" and to make sure it will be respected by everyone as a totally protected area.
We me tollowing chiefs We the following chiefs The Hogane village. The three clans who made a the Hogane village.
2. Fulelu Himewa Mulefa - Laivolo Clan X 3. Yame Kalikumamu - Hemula Clan X
5. Tovoi David Kima JK 8/12/58 6. Witness by Director Wan Eco. Instite (Redand Stein)