Papua New Guinea

Conservation and Environment Protection Authority

The Project

for

Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas

Project Completion Report

August 2021

Japan International Cooperation Agency (JICA)

NIPPON KOEI CO., LTD. KOKUSAI KOGYO CO., LTD.

GE JR 21-033 Papua New Guinea

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List of Abbreviations

1	BBMCI	Bootless Bay Marine Conservation Initiative
2	BBNMS	Bootless Bay National Marine Sanctuary
3	BBNMS WG	Bootless Bay National Marine Sanctuary Working Group
4	BBNMS MC	Bootless Bay National Marine Sanctuary Management Committee
5	BR	Biosphere Reserve
6	C/P	Counterpart
7	CEPA	Conservation and Environment Protection Authority
8	CPC	Central Papua Conference (of Seventh-day Adventist Church)
9	CPG	Central Provincial Government
10	DEC	Department of Environment and Conservation
11	GEF	Global Environment Facility
12	GoJ	Government of Japan
13	GoPNG	Government of PNG
14	IC	Information Center
15	ICC	Information Center Complex
16	IPA	Investment Promotion Authority
17	IPCA	Indo-Pacific Conservation Alliance
18	JICA	Japan International Cooperation Agency
19	LLG	Local-level Government
20	MAB	Men and the Biosphere
21	MC	Management Committee
22	MM	Man Month
23	M/M	Minutes of Meetings
24	MoU	Minutes of Understanding
25	MPA	Marine Protected Area
26	NBSAP	National Biodiversity Strategy and Action Plan
27	NCC	National Conservation Council
28	NEC	National Executive Council (National Cabinet)
29	NPART	National Protected Area Round Table
30	PAU	Pacific Adventist University
31	PA	Protected Area
32	PAWG	Protected Area Working Group
33	PAMC	Protected Area Management Committee
34	PM	Project Manager

35	PMC	Park Management Committee
36	PDM	Project Design Matrix
37	PEC	Provincial Executive Council (Provincial Cabinet)
38	PAMP	Protected Area Management Plan
39	PMP	Park Management Plan
40	PNG	Papua New Guinea
41	PO	Plan of Operations
42	PPA	PNG Policy on Protected Areas
43	R/D	Record of Discussions
44	RPART	Regional Protected Area Round Table
45	SDA	Seventh-Day Adventist Church
46	TPA	Tourism Promotion Authority
47	UNDP	United Nations Development Programme
48	UPNG	University of Papua New Guinea
49	VNP	Varirata National Park
50	WG	Working Group

Separate Volume 1:

Summary Achievements of the Activity Components

A-1 Photo Documentation A-2 Detailed Plan of Operations B Output 1(Activity Component Performance Report) B-1 Establishment of NCC (NPART) C Output 2(Activity Component Performance Report) C-1 Facility Development C-2 Information Center Complex Development C-3 VNP Management setup and Development C-4 Enhancement and systematization of community participation - KAE C-5 Integration of PA management into regional development Planning D Output 3(Activity Component Performance Report) D-1 Governing framework for MPA establishment D-2 Legal framework for MPA establishment D-3 Administrative framework for MPA establishment D-4 Tools for MPA establishment and management

E Output 4(Activity Component Performance Report)

- E-1 Creation and management of GIS data and information
- E-2 Public relations and communication
- E-3 Seminars and workshop

A General

Separate Volume 2:

Copy of Products Produced by the project (DVD)

(A set of electronic files of "list of project deliverables" in ANNEX 2)

Project Completion Report

Project Title: The Project for Biodiversity Conservation Through Implementation of the PNG Policy on Protected Areas

Name: Kay Kalim

Title: Project Manager

<u>Name: Koji Asano</u> Title: Chief Advisor

Submission Date: August 2021

I. Basic Information of the Project

1. Country:

Papua New Guinea (PNG)

2. Title of the Project:

The Project for Biodiversity Conservation Through Implementation of the PNG Policy on Protected Areas

3. Duration of the Project:

June 2015 - December 2020 (5 years and 6 months)

4. Background (from the Record of Discussions(R/D)):

PNG is one of the areas with the richest biodiversity in the world and among the total population of 7.3 million in PNG, over 80% of them are in rural areas and still directly dependent on the natural environment with the rich biodiversity for their subsistence and livelihoods.

The PNG's strong position on the environment is drawn from the Preamble of the National Constitution which declares our goal to be PNG's natural resources and environment conserved and used for the benefit of us and our future generation. With the position, GoPNG formulated the National Biodiversity Strategy and Action Plan (NBSAP) in 2007. However, the implementation of NBSAP has been hindered, by lack of coordination and lack of proper funding and capacity. The current protected area system is small, fragmented, and is highly unlikely to be adequate in providing protection to PNG's high biodiversity. Department of Environment and Conservation (DEC) is in charge of monitoring and management of the protected areas however there is virtually no monitoring or management activity by

DEC.

To address biodiversity conservation and support the development and management of a National Protected Area Network in PNG, GoPNG developed the PNG Policy on the Protected Areas (hereinafter referred to as "PPA") in 2014. PPA will guide communities, organizations, and agencies to harmonize their efforts in a structured and logical approach to the development of protected areas. The project is in alignment with the development issue "Environment Conservation" in the priority area of the Country Assistance Policy "Environment and Climate change" by GoJ.

5. Overall Goal and Project Purpose (from R/D):

Overall Goal

Protected Area Network is effectively managed by applying PA management (and establishment) model(s), which were developed by the Project.

Project Purpose

Institutional capacity of DEC for protected area (PA) management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of PPA.

6. Implementing Agency

Conservation and Environment Protection Agency (CEPA)

Formerly Department of Environment and Conservation (DEC)

II. Results of the Project

1. Results of the Project

1-1: Input by the Japanese side

(1) Amount of input by the Japanese side:

Total amount of input by the Japanese side was JPY 618 million Japanese Yen (estimated amount). For detailed information, please refer "1.5.1 Financial input from JICA" in the Annex 1.

(2) Expert dispatch:

During the project period, a total of thirteen (13) JICA Experts were dispatched from Japan, and a total of 96.36 Man-Month (MM) and 12.87 MM were spent in PNG and Japan respectively. Expert wise MM inputs are shown in the Table below. Details of local staff hired by the JICA Expert Team (JET) are shown in ANNEX 1.

	Name	Title	MM in PNG	MM in Japan
1	Mr. Koji Asano	Chief Advisor/ Biodiversity Conservation	20.83	4.20
2	Mr. Hideki Imai (until May 2018)	Biodiversity Policy	10.37	0.10
3	Ms. Junko Kikuchi (from June 2018)	Biodiversity Policy	2.07	0.00
4	Mr. Hitoshi Watanabe (until January 2018)	Protected Area Management	6.17	0.10
5	Dr. Hiroshi Imae (from February 2018)	Protected Area Management	4.17	0.00
6	Mr. Togo Takamura	Protected Area Management (2)	0.73	0.00
7	Mr. Hideaki Kanayama (until October 2017)	Facility Development (1)	2.50	1.25
8	Mr. Toshiharu Sakano (from November 2017)	Facility Development (1)	2.30	0.55
9	Mr. Yoshifumi Hoshiai	Facility Development (2)	3.03	0.00
10	Ms. Junko Toyoshima (until June 2016)	Natural Resource Management (1)		0.10
11	Dr. Yukio Nagahama (from July 2016)			1.25
12	Mr. Yoshito Mochizuki Natural Resource Management (2)/Livelihood Development/Training coordinator		17.30	4.62
13	13 Ms. Ayako Ochi Biodiversity Information Management/GIS/ Remote Sensing		11.53	0.70
		Total	96.36	12.87

Table 1: MM Spent by each of JICA Experts

(3) Receipt of training participants:

During the project period, two (2) trainings in Japan were conducted and a total of eight (8) CEPA staff participated in the training as shown in the Table below.

	Name	Title	Period	Places visited
1	Ms. Kumaras Kay Kalim	Director, Sustainable Environment Programs, CEPA	5 Nov. – 19 Nov. 2016	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University, Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
2	Mr. Benside Thomas	Manager, Terrestrial Protected Areas Branch Programs, CEPA	5 Nov. – 19 Nov. 2016	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University,Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
3	Mr. Fredrick Ohmana	Senior Program Officer, Terrestrial Protected Areas Branch, CEPA	5 Nov. – 19 Nov. 2016	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University,Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
4	Mr. Edward Kila	Deputy Provincial Administrator, Central Provincial Administration, CentralProvincial Government	5 Nov. – 19 Nov. 2016	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University,Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
5	Mr. Vagi Rei	Manager, Sustainable Marine Environment Division, CEPA	28 Jul. – 11 Aug. 2018	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.
6	Mr. Bernard Suriman	Manager, Sustainable Marine Environment Division, CEPA	28 Jul. – 11 Aug. 2018	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.
7	Ms. Martha Wamo	Liaison Officer, Sustainable Marine Environment Division, CEPA	28 Jul. – 11 Aug. 2018	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.
8	Mr. Pius Piskaut	Senior Lecturer, University of Papua New Guinea	28 Jul. – 11 Aug. 2018	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.

Table 2: List of Participants in the Training in Japan

(4) Equipment Provision:

JPY 12.5 (million Japanese Yen) was spent for provide equipment since the commencement of the project. The equipment indicated in the Table 3 were procured by JET Office.

	Item procured	Specifications	Date Procured	Unit No.	Used for
1	Photocopy machine (Multifunction)	Ricoh MPC 3003 MFP Colour	Jul. 2015	1	CEPA-JICA office
2	Desktop Computer including display	(1) LENOVO M73e (2) HP 600 i7-4790 C8T89AV	Jul. 2015 Sep. 2015	2	CEPA-JICA office
3	MS Office MS office 2013 pro		Sep. 2015	1	CEPA-JICA office
4	Laptop computer	(1) Toshiba Satellite Pro R50 (2) Toshiba DynabookAZ95/U	Jun. 2015 Mar. 2016	2	CEPA-JICA office
5	Projector	EpsonEB-955W	Jun. 2015	1	CEPA-JICA office

Table 3: List of Major Equipment Procured by JET

6	TV monitor	Sony LED TV (KLV40R552C)	Sep. 2015	1	CEPA-JICA office
7	Drone	(1) DJI Phantom 3 Professional(2) DJI Mavic 2 Pro	Aug. 2015 Nov. 2018	2	Output2& 3
8	Digital camera	(1) Ricoh WG-5 (2) Olympus TG4 including waterproof protector	Aug. 2015 Oct. 2015	2	Output2 & 3
9	Digital single-lens reflex camera	Canon EOS 7D Mark II EF-S18-135 IS STM	Aug. 2015	1	Output2
10	Telephotographic lens	EF100-400mm-F45-56L-IS-II	Aug. 2015	1	Output2
11	Video camera	Panasonic HC-WX970M-K	Jan. 2016	1	Output2
12	Handy GPS	Garmin Montana 650	Aug. 2015	2	Output2
13	Diving gear (Set of heavy equipment)	TUSA BC601B L size & XL size	Oct. 2016	2	Output3
14	Dive transceiver	Casio/LGS-RG005BA Logos ease RG005	Oct. 2016	1	Output3
15	Boat	Boat(W23SA), Motor(E40XMHL), Boat Trailer (Al6.2M13T)	Aug. 2016	1	Output3
16	Kayak	Paddle Boat-Kayak Nereus III LLDPE, 2.2m paddle, EVA backrest, fabric seat	Jul. 2018	2	Output3
17	ArcGIS software	ArcGIS Desktop Standard CU, ArcGIS Spatial Analyst for Desktop CU, ArcGIS 3D Analyst for Desktop CU, ArcGIS Desktop backup media	Jul. 2015	1	Output 1~4
18	ENVI Single User Floating License	-	Jul. 2015	1	Output 1~4
19	Feature Extraction	-	Jul. 2015	1	Output 1~4
20	Satellite image	High resolution (50/60cm class), filming range: Varirata National Park (50km2) and surrounding area (10km coverage except for sea area), Motupore Island(0.15km2) and around Motupore Island (1km coverage)	Dec. 2015	1 set	Output 1~4

(5) Overseas activities cost:

Amount of overseas activities cost of Japanese side was JPY 172.5 (million Japanese Yen). For the detailed information, please refer "1.5.1 Financial input from JICA" in the Annex1.

1-2: Input by the PNG side

(1) Counterpart assignment:

A total of twelve (12) counterparts have been participated in the project activities, as indicated in the Table below.

	Name	Title in CEPA	Title in the Project	Major Role and Responsibility
1	Mr. Gunther Joku	Managing Director of CEPA	Project Director (PD)	 Chairman of JCC Provide overall advice and guidance for the project
2	Ms. Kay Kalim	Director for Sustainable Environment Program	Project Manager (PM)	 Serve as Project Manager for terrestrial and marine environment related issues particularly in relation to Output 2 & 3
3	Mr. Maino Virobo	Director for Policy Coordination and Evaluation	Co-Project Manager (Co- PM)	 Serve as Co-Project Manager for policy related issues particularly in relation to Output 1&4
4	Mr. Fredrick Ohmana	Senior Program Officer	Project Coordinator (PC)	 Coordinate and provide administrative and technical assistance for the project

Table 4: List of Members of CEPA Counterpart Team

				 Oversee project activities of all output to report to PM and Co-PM
5	Ms. Katrina Solien	Manager, Policy (and International) Branch	Team Leader for Output 1	 Coordinate within CEPA for policy development, PA governance and related issue particularly in relation to Output 1
6	Ms. Rose Alphonse	Policy Analyst	Member, Output 1	- Conduct project activities with JET
7	Ms. Carmel Jonduo	Policy Analyst • International	Member, Output 1	 Conduct project activities with JET
8	Mr. Benside Thomas	Manager, Terrestrial Pas Branch	Team Leader for Output 2(& 1)	 Coordinate within CEPA for terrestrial PA management and related issue particularly in relation to Output 2
9	Ms. Yvonne Tio	Executive Manager, Sustainable Marine Environment Division	Team Leader for Output 3 (& 1)	 Coordinate within CEPA for marine PA management and related issue particularly in relation to Output 3
10	Mr. Bernard Suruman	Manager	Member, Output 3 (& 1)	- Conduct project activities with JET
11	Mr. Vagi Rei	Manager	Member, Output 3 (& 1)	- Conduct project activities with JET
12	Mr. Gerard Natera	Executive Manager, Spatial Systems and Data (GIS)	Team Leader for Output 4	 Coordinate within CEPA for information, GIS, remote sensing, and related issue particularly in relation to Output 4

(2) Provision of offices, etc.:

For the implementation the project, CEPA provided office space, furniture such as cabinets and utility cost. Other major items borne by CEPA were:

- In October 2019, the Koiari Tree House was constructed in the VNP, using the CEPA budget (about 5,000 Kina). The Koiari Tree House was built to promote Koiari's culture.
- CEPA organized many events such as World Environmental Day, which supported implementation of project public relations activities, and participation of the livelihood development group (KAE Association) in the Output 2.

(3) Total input from the PNG side:

In total, PGK 1,190,696 was invested as the cost of the project implementation. The breakdown of each expenditure is shown in ANNEX 1.

1-3 Activities

Please refer Separate Volume 1: Summary Achievements of the Project Components.

2. Achievements of the Project

2-1 Outputs and indicators

The achievement levels are described below according to the PDM indicators.

(1) Output 1:

<Indicator 1-1> NCC is officially established by Dec 2017, and the meetings are regularly held as per the NCC operational plan.

<Achievement status> As additional works such as development of laws and regulations, which were necessary as a premise of the activities, the work was delayed from the original plan, but it was finally achieved.

The reasons are described below.

- Although the target date for NCC establishment was set to be by September 2018 after the modification of PDM in the second JCC meeting in 2016, CEPA officially decided to pend related activities in the establishment of NCC until after the Protected Area Bill (PA Bill), as a precondition, become gazetted, and legislative justification become clear in February 2017.
- Despite that CEPA-JICA Project Team has been assisted CEPA and UNDP-GEF Project Team for the officialization of PA Bill. it was not yet completed. In view of the limited time left toward the end of the project period, alternative idea was needed to achieve the project purpose. In consultation with the Ms. Kay Kalim, Director of CEPA, it was decided to establish National Protected Area Round Table (NPART) as an interim body of NCC in August 2019.Policy and legal review on PA Bill have been done to facilitate NCC as well as NPART and RPART establishment by CEPA-JICA Team by October 2019.
- CEPA-JICA Project Team drafted documents for National Executive Council (NEC) submission on NCC, NPART and RPART in March 2019. Also drafted Terms of Reference for NCC, NPART, RPART and PAAG and did consultations by May 2019.
- After the nomination and other institutional procedure, the first meeting of Interim NPART was held in February 2020 with six members.

(2) Output 2:

<Indicator 2-1> Park facilities developed by the project become functional by Dec. 2019, contributing to public reputation/appreciation of VNP.

<Achievement status> Achieved more than expected.

The reasons are described below based on the three key questions set by the project.

- 1) Were park facilities in VNP developed as per the plan?
- As per the Facility Development Action Plan and the Information Centre Complex Master Plan, various facility development works including, wooden bridge repair, new distance pile installation for all four tracks, signage installation, and soon have been completed, and became functional by December 2016.

- Contract for the construction of new Information Center was signed by JICA PNG Office on 17 July 2017, and the work completed in May 2018. CEPA-JICA Project Team gave diligent assistance for all the works. It was expected to be completed in March 2018, however due to several unexpected reasons such as delay on acquiring construction permit and procurement process of materials, it was postponed being by May 2018.
- The work for renovating old Information Center to be an auditorium, renovation of parking and installing wood deck and wood pedestrian bridge and other related small works are called as "Information Center Complex" in the Master Plan, and the works started in July 2017 and all works have been completed in October 2018.
- The Koiari tree house construction started in April 2019 using CEPA fund agreed in the JICA-CEPA MoU, and successfully completed in November 2019. All facilities planned in the master plan have completed, and all have already contributed tremendously to public reputation/appreciation of VNP.
- 2) Was the number of visitors increased?
 - Official hand over of facilities from JICA to CEPA was done in Mid-March 2019 upon signing of MoU, and three park rangers officially started their service from 23 March 2019 later in October, additional seven were employed in cooperation with GEF-UNDP. Since then, transparent fee collection and visitor records have been made.
 - According to fee collection records by park rangers, average 1,389 visitors and 363 cars per month visiting VNP from April 2019 to November 2020 as shown in the Figure below. Especially, in December 2019, more than 2,300 visitors visited VNP by the influence of Christmas holidays. Although there is no accurate previous data of visitor numbers, it is observed to have rapidly increased as there were only 288 visitors per month recorded from January to September 2015 before the project started. The revenue generated by fee collection has reached already financially sustainable level to manage the park. This result obviously shows that all facilities have contributed to public reputation/appreciation of VNP.

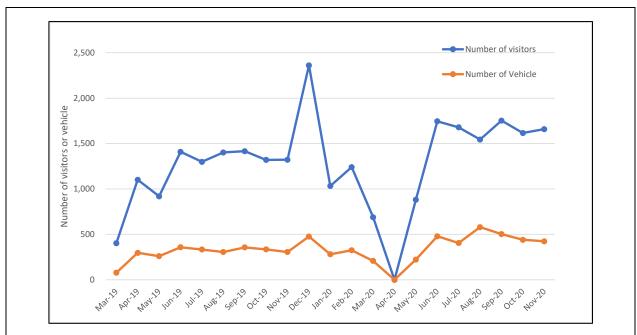


Figure 1: Number of visitors and cars visited VNP

3) Did the facilities developed convince better utilization of the park, in different way of use including environmental education, and attract different groups of people who have not visited the park before?

- CEPA and concerned institutions noticeably admits that all those facilities developed by the project convinced better utilization of the park, in different way of use including environmental education, and attract different groups of people who have not visited the park before.
- Since the official opening of ICC in March 2019, many groups as described in the below table visited for various purposes. By purpose analysis, VNP is frequently used by church activities and research or study including environmental education. Some donors and governmental organizations also held seminars or workshops at ICC in VNP. The residents around the park also visited VNP for special events such as a wedding ceremony.

Date	Users	Activity/Purposes	
March, 2019	March, 2019		
29 -31 (Friday-Sunday)	UPNG	Research	
April, 2019			
05 – 07 (Friday – Sunday)	Bomana CIS SDA Church Women's Group	Church Camping	
12 – 14 (Friday – Sunday)	UPNG (Students)	Research	
18 – 21 (Thursday – Sunday)	Church group	Church Camping	
28 (Sunday)	Japanese Embassy	Recreational	
May, 2019			
17 -18 (Friday –Saturday)	Church Group	Retreating purpose	
28 May (Tuesday – 07 June	Reformation Ministries Churches Network	Fasting & Praying	
(Friday)			
June, 2019			

Table 5: Groups visited VNP after public opening of ICC

05 (Wednesday)	СЕРА	World Environment Day Celebrations
07 - 08 (Friday - Saturday)	Four Square Church	Church Group Camp
11 - 15 (Tuesday - Saturday)	Church group	Fasting & Praying
12 - 15	UPNG (Lutheran Students)	Church Group activities
(Wednesday - Saturday)		
15 - 16 (Saturday -Sunday	Jubilee Secondary School (Grade 12 Physics students)	Study (Practical Lessons)
16 (Cundov)	UPNG (Lutheran Students)	Church group activities
16 (Sunday)	Christian Brethren Church	Church group activities
28 - 29 (Friday - Saturday)		
July, 2019	Wemen's Crown	Recreation
05 - 07 (Friday – Sunday)	Women's Group	
08 - 11 (Monday – Thursday)	Trinity Lutheran Church	Church group activities
26 – 28 (Friday – Sunday)	UPNG (Students & Lecturers) Individual	Field Work & Camping
28 (Sunday)		Marriage ceremony
August, 2019	LIPNG (Studente & Lecturere)	Study
07 (Wednesday) 17 (Saturday)	UPNG (Students & Lecturers) CEPA/SEP (Social club)	Study Event of Park Cleaning
31 (Saturday)	UPNG (Biology Students)	Research on insects
	OPING (Biology Students)	Research on insects
September, 2019 03 - 04 (Tuesday - Wednesday)	UNDP/CCDA	Technical Workshop
13 - 16 (Friday - Monday)	UPNG Lutheran Students Congregation & Sogeri	
15 - 16 (Fliday - Moliday)	National High School Students	Church Camp
October, 2019		
03 – 04 (Thursday - Friday)	Social group (Teacher's group)	Celebrate Teachers day
17 - 29 (Thursday – Tuesday)		Church Group activities
November, 2019		
06 - 08 (Wednesday - Friday)	Church group	Fasting & Praying
09 (Saturday)	СЕРА	Tour package
13 - 15 (Wednesday – Friday)	Church Group	Fasting & Praying
22 - 23 (Friday – Saturday)	Hela /South's Group	Christmas Celebrations
December, 2019		
09 (Monday)	UPNG (Conservation Training Participants)	Camping & Research
11 (Wednesday)	UPNG (Conservation Training Participants)	Camping & Research
13 – 14 (Friday – Saturday)	Church Group	Camping
14 (Saturday)	Social group (Lawyers group)	Recreation
23 (Monday)	Church Group	Fasting & Praying
February, 2020		
07 – 08 (Friday – Saturday)	Church Group	Camping
24 –26 (Monday – Wednesday)	Church Group	Camping
29 – 01 March (Saturday –	Business group	Camping
Sunday) March, 2020		
04 (Wednesday)	CEPA-JICA	Site visit
09 (Monday)	UNDP/SGD/GEF5	Workshop
26 (Thursday)	CEPA-JICA	Seminar
June, 2020		
20 (Saturday)	СЕРА	Tour package

Table 6: Visitors of VNP after public opening of ICC						
			Purpose of use			
Month	Research/ Study	Church activities	Seminar/ workshop	Recreation	Others	Total
March, 2019	1	0	0	0	0	1
April, 2019	1	2	0	1	0	4
May, 2019	0	2	0	0	0	2
June, 2019	1	5	1	0	0	7
July, 2019	1	1	0	1	1	4
August, 2019	1	1	0	0	1	3
September, 2019	0	1	1	0	0	2
October, 2019	0	1	0	1	0	2
November, 2019	0	2	0	1	1	4
December, 2019	2	2	0	1	0	5
January, 2020	0	0	0	0	0	0
February, 2020	0	2	0	1	0	3
March, 2020	0	0	2	0	1	3
April, 2020	0	0	0	0	0	0
May, 2020	0	0	0	0	0	0
June, 2020	0	0	0	0	1	1
Total	7	19	3	6	5	34

<Indicator 2-2> An appropriate park management plan(s) is (are) developed by Dec. 2018, contributing to public reputation/appreciation of VNP.

<Achievement status> Achieved more than expected.

The following is a description of each of the three questions set by the project.

1) Are data collected, such as results of biodiversity survey, socioeconomic survey, etc. reflected in the park management plan (Are the latest and detailed information were used for the preparation)?

- Park Management Plan (PMP) for "revival stage" was prepared based on the data and information collected in 2016, and related activities have been implemented as "on the job training" as per the plan.
- Based on the PMP for revival stage and its related works done, the interim version of PMP for "progress stage" was prepared in March 2019, and discussion on various issues and further development had been continued.

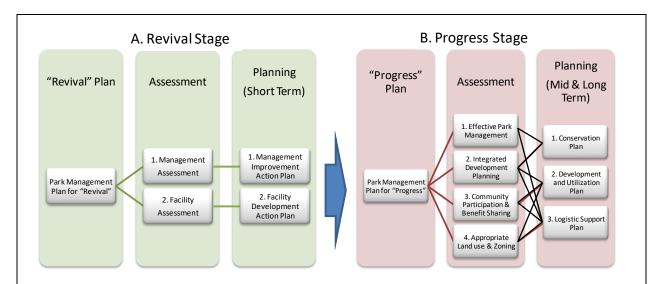


Figure 2: Assessment and planning in each stage

2) At the same time of report preparation, is capacity development of basic skills for park management carried out?

- PMP for "revival stage" was produced in 2016, and related activities have been implemented as "on the job training" as per the plan since then. Based on the experience during the revival stage, progress stage activities are going on, at the same time of preparation for PMP for progress stage.
- Drafted and finalized of Memorandum of Understanding between JICA and CEPA on the management of ICC of VNP, which was signed in March 2019. Also drafted and finalized Terms of Reference for Varirata NP Management Committee in March 2019. Various works have been conducted for capacity development of basic skills for park management

3) Is the PMP for progress stage prepared, recognized as a model of national park management in the country?

 As discussed above, the interim version of PMP for "progress stage "was prepared in March 2019, and discussion on various issues and further development had been continued. It is already becoming an only model of national protected area management since VNP is the only national park that CEPA directly manages.

<Indicator 2-3> Biodiversity conservation of VNP landscape is integrated into the local governments' development plans (provincial, district and LLG).

<Achievement status> Achieved as planned.

The following is a description of each of the three questions set by the project.

1) Is biodiversity conservation of VNP landscape integrated into the Koiari Local Level

Governments' development plans?

- CEPA-JICA Project Team has reviewed the Koiari Five-years Development Plan (2011-2015), had various consultation meetings, and submitted memos many times which proposed possible integration of biodiversity conservation of VNP landscape into their development plans for 2016 2020.
- Based on the memo, Koiari government drafted the plan in November 2017. CEPA-JICA Project Team assisted diligently finalization of the plan for 2017-2021(differed) and made ready for submitting to the district office for scrutiny (April 2018).
- The plan was finally officialized by the LLG (October 2018). The comments made by the project were fully attended, thus the plan includes biodiversity conservation viewpoint.

2) Is biodiversity conservation of VNP landscape integrated into the Central Provincial Governments' development plans?

- CEPA-JICA Project Team reviewed previous provincial development plan and had various consultations with the provincial government officials including the Deputy Central Provincial Administrator, Mr. Kila, and made proposals for the next plan. The proposal was submitted and committed by provincial government officials to be reflected in the new plan (April 2018).
- Internal discussion within the provincial government has been continued with new Central Provincial Governor, Mr. Robert Agarobe and they made final version of the development plan in November 2019. The development plan was announced to be launched officially by the Governor in February 2020.
- The comments made by the project were fully attended. The new plan sets Varirata National Park and Mirigeda & Bootless Bay which are the project target sites for important to eco-tourism and environmental protection in Central Province.

<Indicator 2-4> VNP surrounding communities obtain livelihood development options under their own initiative.

<Achievement status> Achieved more than expected.

The following is a description of each of the three questions set by the project.

1) Was livelihood development group(s) established?

- From June 2015 to 2017, various meetings were held with the leaders of four identified land-owning clans of VNP, the ward councilors and Koiari LLG officials, and finally formed three social groups to develop livelihood development options. Later those groups started to work based on the plan.
- Traditional dance group and traditional cooking group were established in 2016, and later they were
 officially registered as one legal entity named "KAE Association Incorporation" in Investment

Promotion Authority (IPA) in March 2019. Livelihood development groups have established officially and being operated successfully till now.

2) Were the livelihood development groups capacitated, to be able to operate by themselves after the project termination?

- CEPA-JICA Project Team has been working on the preparation of livelihood development plans. Also, to make the activity self-reliable and sustainable; the project has succeeded to give status to livelihood development groups as legal entity which is expected to be a key partner for the park management in future as well as for their own income generation activity.
- With assistance by CEPA-JICA Project Team, KAE finally succeeded to open a bank account as a legal entity based on related legislations. It is significant progress to become capable for sustainable financial management. The Project also conducted a financial training in March 2019 to key members of KAE Association to improve their ability of financial management. Since opening the bank account, KAE Association has managed revenue using their account.
- In April 2019, technical exchange trip was made by KAE to Boera village, which is coastal village of Central Province, one-hour drive from Port Moresby, where receive tourists for cultural show. Through the technical exchange, KAE identified some points to be improved, and at the same time developed network for future mutual communication and development that contribute technical sustainability of KAE activities.
- In November 2019, KAE Association conducted a trial tour with more than fifty participants at VNP and prepared traditional food for the participants. This trial tour was mainly planned by several discussions with CEPA and KAE Association. KAE Association suggested using traditional plates made by local materials and vegetarian menu to attract tourists. In June 2020, second trial tour was held with more than 130 participants at VNP. In this tour, not only cooking group but also dancing group from KAE Association provided their service and they received a high evaluation from the tourists. CEPA-JICA Project Team admit that KAE becoming self-reliable.
- In March 2020, CEPA-JICA Project had the evaluation workshop for KAE Association. KAE Association evaluated their past activities and identified the problems and improvements to be solved for development of KAE Association in future. They also made activities plan including after the project termination. They regularly had meetings by themselves after the workshop and continue to work based on their activity plan.
- 3) Did the livelihood development groups gain economic benefit?
- KAE Association has provided their services in several events, i.e., traditional dance, traditional food, cultural items, and security service. As shown in the table below, they provided their services nine times (2 in 2017, 2 in 2018, 3 in 2019 & 3 in 2020), and their total sales accounts PGK 21,970.

Although most of these activities are related to CEPA-JICA Project, KAE Association also has gained income from other sources such as donors and local tourist groups without assistance from the project.

Date	Event organizer	Event name (Number of participants)	Service provided	Amount received
20th April 2017	CEPA-JICA project	Inaugural Launching of VNP Facilities (70 people)	Total: 40 people Dancing: 15 people Cooking:17 people Security: 8 people	Total: PGK 2.960 Dancing: PCK 1,050(PGK70 x 15 people) Cooking: PGK 1,750 (PGK25 x 70 people) Security: PGK 160 (PGK 20 x 8people)
5th June 2017	СЕРА	Environmental day (100 people)	Total: 31 people Dancing: 17 people Cooking: 14 people	Total: PGK 2.890 Dancing: PCK 1,190 (PGK70 x 17 people) Cooking: PGK 1,700 (PGK17 x 100 people)
18th October 2018	CEPA-JICA project	Study tour at VNP - Biodiversity and Conservation Seminar (75 people)	Total: 22 people Dancing: 22 people	<u>Total: PGK 1,540</u> Dancing: PCK 1,540 (PGK70 x 22 people)
30th November 2018	UNDP-GEF 5 and CEPA	Ranger workshop (45 people)	Total: 17 people Dancing: 12 people Cooking: 5 people	Total: PGK 3,800 Dancing & Cooking: PGK 3,800
28th March 2019	CEPA-JICA project	Inaugural Ceremony for the ICC (80 people)	Total: 34 people Dancing:16 people Cooking: 10 people Security: 8 people	Total: PGK 3.480 Dancing: PCK 1,120 (PGK70 x 16 people) Cooking: PGK 2,200 (PGK27.5 x 80 people) Security: PGK 160 (PGK 20 x 8 people)
5th June 2019	СЕРА	Environmental day (150 people)	Total: 12 people Dancing:10 people Cultural: 2 people	Total: PGK 1,250 Dancing: PCK 700 Cultural: PGK 550
9th November 2019	CEPA/ Kae Association	1st Trial Tour (54 people including CEPA-JICA)	<u>Total 5 people</u> Cooking: 5 people	<u>Total: PGK 1,170</u> Cooking: PGK 1,170 (PGK 30 x 39 people)
20th June 2020	CEPA/Kae Association	2nd Trial Tour (131 people including CEPA-JICA)	Total: 20 people Dancing: 12 people Cooking: 8 people	Total: PGK 4,320 Dancing: PCK 840 (PGK70 x 12 people) Cooking: PGK 3,480 (PGK30 x 41 people, PGK125 x 18 groups)
18th November 2020	CEPA-JICA project	Final Seminar (40 people including CEPA-JICA)	Total: 8 people Dancing: 8 people	Total: PGK 560 Dancing: PCK 560 (PGK70 x 8 people)
		Total: 745 visitors		<u>Total: PGK 21,970</u>

Table 7: Events and incomes generated by the Livelihood Development Group

<Indicator 2-5> MAB nomination form is drafted based on the outcomes of the project by Dec. 2019.

<Achievement status> Achieved as planned.

- 1) Were information and data necessary to prepare MAB-BR Nomination Form collected?
- Preliminary assessment on application form, collection of necessary data and information, preparation of preliminary zoning map and so on have been done by the end of 2019.

2) Was MAB nomination form drafted?

- MAB nomination form was drafted in January 2020 and handed over to CEPA.

(3) Output 3:

<Indicator 3-1> A proposal for new marine PA is submitted in accordance with the requirements of PPA by Mar 2019.

<Achievement status> Achieved more than expected

- CEPA-JICA Project Team officially established the Bootless Bay Marine Conservation Initiative (BBMCI) in April 2017 with the aim of collaborating to establish an MPA, with 19 important organizations as members. As per the PPA, the "Protected Area Working Group" and the "Protected Area Management Committee" were established to establish the MPA in the Bootless Bay areas.
- The "Protected Area Working Group" created a proposal using the form created in the project. According to the PPA, this proposal was supposed to be submitted to and approved by RPART. However, since RPART was not been established at that time, it was submitted a set of documents to CEPA. Since the expected members of RPART in the Bootless Bay area were same to the members of the "Protected Area Working Group" who created the proposal, it was expected that the proposal would be approved when RPART was established.
- Through the activities of BBMCI, two possible options for establishing MPA were finally identified, and necessary work scenarios were set up. One of the options was the Mangrove Protected Area, and the other was the National Marine Sanctuary.

<<u>Mangrove Protected Area></u>

- MoUs to promote MPA establishment and mangrove protection at Tahira Inlet in Bootless Bay were signed with University of PNG (UPNG) (June 2017), Seventh Day Adventist Church Central Papua Conference (CPC)(April 2018), Tahira Farm (January 2018), and Central Provincial Government (CPG) (August 2018), who own the largest lands in Bootless Bay areas. Various activities were carried out based on the Joint Action Plan attached to the MoU.
- CEPA-JICA Team proposed the establishment of a "conservation easement" and an agreement as a means of promoting mangrove conservation in private land. Through the activities of BBMCI, in collaboration with three landowners (UPNG, CPC, Tahira Farm), by March 2019, zoning, landowner obligations, protected area management measures, etc. have been established, and easement agreement documents were drafted.
- These documents were submitted to the State Solicitor's Office in May 2019 and were finally approved in June 2020 after a number of procedures. On August 20, 2020, the landowner and the CEPA Managing Director signed the Conservation Easement Agreement.

<National Marine Sanctuary>

- Regarding the National Marine Sanctuary, various activities were promoted with the goal of declaring the entire Bootless Bay area. In January 2019, a set of documents was submitted to the Minister's Secretariat to submit a proposal for a "provisional protected area" to the Cabinet (NEC) in anticipation of the establishment of a national marine sanctuary in the future.
- On the other hand, the CEPA-JICA Project Team and BBMCI collaborated to clarify the MPA approval process within CEPA and to prepare a set of related documents such as application forms.
 Based on the procedures and forms set up, CEPA drafted a proposal for the "Bootless Bay National Marine Sanctuary (BBNMS)" and began the approval process in November 2019.

<Indicator 3-2> Proposed new PA is authorized by RPART/NPART and NCC by Jul 2019.

<Achievement status> Achieved more than expected

- NCC, NPART and RPART were planned to be officially established when the "New PA Bill (Protected Area Bill)" met during deliberation came into force. The CEPA-JICA project team provided various support for drafting and formulating the "New PA Bill" and its bylaws. Support included drafting articles of incorporation that detail the purpose, roles, responsibilities, and members of each organization. As stipulated in the by-law, BBMCI was positioned as a substitutional organization until the official establishment of NPART and RPART.
- During the project period, nine (9) official BBMCI meetings and three (3) official workshops were held and various activities were carried out to establish MPAs. The BBNMS Working Group and the BBNMS Management Committee were established as planned. BBMCI has approved the Mangrove Protected Areas and National Marine Sanctuary proposed by the BBNMS Working Group.

The "Conservation Easement" documents for the privately owned mangrove protected areas were submitted to the State Solicitor's Office in May 2019, and after a number of procedures, were finally approved in June 2020.

<Indicator 3-3> Management instruments (i.e., management plan) of the new PA are ready for use by Mar 2020.

<Achievement status> Achieved more than expected

<<u>Mangrove Reserve></u>

 The Conservation Easement newly introduced by the project summarizes the means for managing mangrove protected areas set up on private land, zoning, and the obligations of landowners. The project supported three privately owned lands, and on August 20, 2020, the landowner and CEPA Managing Director signed the conservation easement document. Therefore, it can be said that the management means is already functioning.

<National Marine Sanctuary>

The newly proposed "Bootless Bay National Marine Sanctuary (BBNMS)" "Management Plan (2020-2025)" was drafted in November 2019 after three official workshops and then based on comments. After amendment, the final version was approved by the BBNMS Management Committee. In line with the plan, the management office "CEPA Tahira Marine Station / BBNMS Management Office" was procured on the land in the Tahira area of UPNG using the JICA funds. As for the management system, TOR and members are specified in the by-law of the management committee. These controls are already working.

<Indicator 3-4> A report of establishment model is prepared by Apr 2020.

<Achievement status> Achieved as planned

In November 2019, CEPA-JICA project team drafted a report "Experience from Marine Component of CEPA-JICA Biodiversity Project" that summarizes the experience and deliverables of the "protected area establishment model" for about four years. Also, they used it to hold a study session at CEPA. After that, the report was revised after comments, and it was finalized in February 2020. As a result, the process and procedure for establishing a protected area and necessary technical documents were shared with the parties concerned, and it can be said that the technical basis for establishing a protected area in another area in the future was laid.

(4) Output 4:

<Indicator 4-1> Strategy for public relations/awareness is implemented.

<Achievement status> Achieved as planned.

- After a series of consultation meetings and consideration of email-based comments from CEPA staff, "Strategy for Public Relations/Awareness" was finalized and shared in October 2015.
- Reviewed and revised the "Strategy for Public Relations/Awareness" and the "Action Plan". (20 Jul 2018)

<Indicator 4-2> Project website is made by Sep 2016, and regularly updated as stated in the plan.

<Achievement status> Achieved more than expected.

- Has been provided contents for JICA's project homepage, which was developed by JICA HQ.
 Besides, Project Facebook, was created and announced to relevant stakeholders.
- In November 2016, CEPA created its institutional website, and the project website of simple structure was also created in the website. CEPA-JICA Project Team recognized necessity of major

modification and started to work with IT officer for the modification.

- Opened new project Facebook page and transferred the existing posts from the old page to the new page in accordance with the change of page administrators in October 2018. https://www.facebook.com/pngbiodiv2/
- A total of 410 posts in Project Facebook page.

Date	Month (s) quarterly	Article (s)
2015	Oct-Dec	18
2016	Jan-Mar	5
	Apr-Jun	30
	Jul-Sep	15
	Oct-Dec	12
2017	Jan-Mar	27
	Apr-Jun	15
	Jul-Sep	25
	Oct-Dec	18
2018	Jan-Mar	12
	Apr-Jun	20
	Jul-Sep	0
	Oct-Dec	46
2019	Jan-Mar	39
	Apr-Jun	40
	Jul-Sep	24
	Oct-Dec	17
2020	Jan-Mar	10
	Apr-Jun	22
	Jul-Sep	7
	Oct-Nov	7
Total		410

 Table 8: Number of posts in the Project Facebook Page

<Indicator 4-3> More than 5 types of information dissemination materials are made and disseminated to more than 30% of target area population as planed in the strategy for public relations/awareness.

<Achievement status> Achieved more than expected.

- A total of 3,700 of Project Brochure, Atlas book.

Table 9: Number of Project Brochure, Atlas book produced by the project

Date	Item	Quantity
17-Jul-15	Project Brochure	500
20-Oct-15	Project brochure (ver.2)	1,000
31-Mar-17	Project brochure (ver.3)	500
1-Jun-17	Project brochure (Output 3 version)	100
May-18	Project Brochure (ver.4)	500
14-Nov-18	Project Atlas (1 ST edition)	100
Mar-19	Project Brochure (ver.5)	500

Feb-20	Project Brochure (ver.6)	500
	total	3,700

- A total of 6,400 of Project Newsletter, Fact Sheet.

Table 10: Number of Project Newsletter, Fact Sheet produced by the project

Date	Item	Quantity
18-Oct-16	Project newsletter vol. 1 and vol. 2 (300 copies each)	600
21-Oct-16	Project factsheet vol. 1	300
Dec-16	Project newsletter vol. 3	500
3-Jul-17	Project newsletter vol. 4	500
07 Son 17	Project newsletter vol. 1 and vol. 2 and Project	1500
27-Sep-17	factsheet vol. 1 (re-printed for 500 copies each)	1500
12-Feb-18	Project newsletter vol. 5	500
12-Feb-18	Project factsheet vol. 2	500
25-Jul-18	Project newsletter vol. 6	500
29-Jan-19	Project newsletter vol. 7	500
24-Oct-19	Project newsletter vol. 8	500
29-Jan-20	Project newsletter vol. 9	500
	total	6,400

- A total of 47 of Project Banner, Poster.

Table 11: Number of Project Banner, Poster produced by the project

Date	Item	Quantity
17-Jul-15	Project Banner	2
28-Oct-15	Poster (Provincial Project Boundary Map) was printed (AO laminating)	1
20-Apr-16	Poster (Terrestrial ecosystem areas map, marine/coastal ecosystem map and mangrove map (A0)	3
4 1 17		2
1-Jun-17	Project Poster focused on Output 3 (A1=2 & A3=20)	20
1-Jun-17	Poster of Bootless Bay proposed Marine Protected Area, mangrove Map and preliminary survey Map(A0)	3
21-Jul-17	CEPA-JICA Project Banner	1
14-Sep-17	Banner of Bootless Bay Marine Conservation Initiative (BBMCI)	1
14-Mar-18	Project poster included land use map (A0=4, A3=1)	4
12-Sep-18	Project Banners (3 types: (1) biodiversity, (2) culture and people, (3) mangroves, corals, etc. (for marine)	4
4-Oct-18	Flag banner of Information Centre Complex at VNP	1
11-Oct-18	Banner of VNP (2 types)	4
	total	47

- A total of 7,564 of VNP Guide Map, sticker, and stamp.

Table 12: Number of VNP Guide Map, sticker and stamp produced by the project

Date	Item	Quantity
21-Sep-16	Guide map of VNP (1 st edition)	5,000
1-Nov-16	Project logo sticker	60

	1-Nov-16	Sticker of VNP logo	1,000
Γ	1-Nov-16	Sticker of Project boat	2
Γ	20-Jan-17	Reprinted guide maps for VNP	500
Γ	18-Jul-17	Sticker of BBMCI logo	1,000
Γ	Feb-19	VNP stamp	2
Γ		total	7,564

- A total of 1,110 of biodiversity survey report, its executive summary.

Table 13: Number of survey report, its executive summary produced by the project

Date	Item	Quantity
Oct-18	Biodiversity reports (book)	10
12-Oct-18	Executive summary of the Biodiversity Reports	100
Sep-18	Field guide brochures of Plants, Mammals, Birds, Reptiles, Frogs and Invertebrates (200 copies each)	1,000
	Total	1,110

- A total of 320 of Polo, T-shirts, and Vest.

Table 14: Number of Polo, T-shirts and Vest produced by the project

Date	Item	Quantity
18-Apr-16	Project POLO shirt	60
20-Oct-16	T-shirt for Bootless Bay Marine Conservation Initiative was created and distributed at the launching event	100
3-Nov-16	T-shirt for Friends of Varirata	100
Feb-19	Project vest	60
	Total	320

- A total of 24 of signboards.

Table 15: Number of signboards produced by the project

Date	Item	Quantity
13-Sep-16	Bird watching signboard installed at the main picnic area VNP	2
13-Sep-16	Megapod explanation signboard for VNP installed at SCARP Track and Self Guide Track	2
Nov-16	Bird watching signboard at Pacific Adventist University	1
5-Apr-17	Signboards for marine protected area was created at Tubuseria Village	3
Sep-17	Signboards for marine protected area was created at Tahira UPNG land	2
Sep-17	Signboard for marine protected area for Motupore Island	1
31-Oct-17	Signboard for marine protected area for Tahira Farm	1
11-May-18	Signboard for mangrove protection at Tahira Farm (4 on land, 5 in the sea)	9
Feb-19	Signboard for VNP new entrance fees	1
Mar-20	Signboard for marine station office at Tahira	2
	Total	24

<Indicator 4-4> More than 3 times of workshops/seminars for information dissemination are held by the end of the project.

<Achievement status> Achieved more than expected.

- More than 23 times of workshops/seminars for information dissemination were held so far.

Kick-off Seminar / Workshop for CEPA-JICA Biodiversity Project. (29 Jul 2015)		
Inception Workshop for Koiari. (22 Oct 2015)		
Follow-up Workshop for Koiari. (22 Nov 2015)		
Workshop on Livelihood Development & Bird Watching in Koiari. (25 Feb 2016)		
VNP Landowner Workshop on Livelihood development (19 May 2016).		
Inception Workshop for the creation of Bootless Bay Marine Conservation Initiative at Motupore Island (16 Aug 2016).		
The 2nd Workshop for the creation of BBMCI at Lamana hotel, Port Moresby (31 Jan 2017).		
VNP Wrap-up Workshop on the project Achievements 2015-2016 (2 Feb 2017).		
Inaugural Launch for the Renovated Facilities in Varirata National Park (20 Apr 2017).		
The 1 st meeting for BBMCI/ Coastline Clean-up Event at Tubseria Village (12 Apr 2017).		
The 2 nd meeting for BBMCI at CEPA (19 Apr 2017).		
The 3 rd meeting for BBMCI at CEPA (21 June 2017).		
The 4 th meeting for BBMCI at CEPA (Aug 2017).		
The 5 th meeting for BBMCI at CEPA (12 Mar 2018).		
The 6 th meeting for BBMCI at CEPA (3 Sep 2018).		
The 7 th meeting for BBMCI at CEPA (25 Jan 2019).		
The Inaugural Ceremony for Information Center Complex in VNP (28 Mar 2019).		
Campaign event for World Environmental Day at Mirigeta of Bootless Bay for mangrove planting. (4 Jun 2019).		
The 8 th meeting for BBMCI at CEPA (2 Sep 2019).		
The event of community awareness on Bootless Bay MPA (9-16 Oct 19).		
The 9 th meeting for BBMCI and the 1 st BBNMS working group meeting at CEPA (5 Feb 2020).		
The final seminar of the project (18 Nov 2020).		

2-2 Project Purpose and indicators

At the project purpose level, the project aims to realize institutional framework and promote collaborative work for the management of terrestrial and marine protected areas by achieving four outputs. The achievement was assessed in comprehensive and appropriate manner as described below.

<Indicator 1> The institutional framework for effective management and governance of the PNG Protected Area Network is in place.

<Achievement status> Achieved more than expected.

It already has a huge track record of collaborative activities among institutions that will serve as the basis for managing terrestrial and maritime protected areas over the future. Based on the following reasons, it is judged this indicator was achieved.

1) Output 1: National Level Protected Area Governance

- As a national level major body for the management and governance of protected area networks, the project aimed to establish NCC, however since legislative justification as a prerequisite was not completed by the time, instead, NPART as an interim NCC was established (Jan 2020).
- CEPA-JICA Project Team established BBMCI in 2017 to have substitutional functions of NPART that was also stated in the bylaw. BBMCI was consisted of key actors who may be a part of RPART.

BBMCI works have progressed very well and expected to contribute reginal protected management in future.

- 2) Output 2: Terrestrial Protected Area
- The park management committee of VNP was established in November 2019. It is the first park
 management committee for National Park in PNG, and its institutional framework became a model
 of effective management and governance of PNG Protected Areas.
- KAE association, which represents four landowning clans of VNP became a part of the committee, and besides, park rangers were recruited through KAE, officially included landowner's clans to be institutional framework as well as management of VNP.
- For the sustainable management of VNP, CEPA-JICA Project Team believes that roles and responsibilities should be shared with local governmental bodies (Central Province, Koiari LLG) and landowners (four clans), and they should be a part of institutional framework. CEPA-JICA project carried out various collaborative activities after discussing role sharing with them, particularly for regional promotion of protected area management through Bird Watching with four institutions: MoU signed among CEPA - Tourism Promotion Authority (TPA) - Pacific Adventist University (PAU) - Koiari LLG.
- 3) Output 3: Marine Protected Area
- The objective of BBMICI was set in its bylaw, as " it aims to serve as the Protected Area Management / Advisory Board, Committee or Working Group for the MPAs in the Bootless Bay Areas". Since it is the first body of such kind in PNG, BBMCI became an institutional framework for effective management and good governance of marine protected areas in PNG.

<Indicator 2> Concerned institutions and local governments collaboratively work for development planning, livelihood development and so on for the management of target PA(s) and its landscape(s).

<Achievement status> Achieved more than expected.

Based on the following reasons, it is judged this indicator was achieved.

- 1) Output 2: Terrestrial Protected Area
- In the activities up to now, CEPA, local governments, universities and private sector actively participate in the project activities. Especially the research institutes (PAU, UPNG) and the Tourism Promotion Authority (TPA) have cooperated actively after signing a cooperation agreement (MoU).
- 2) Output 3: Marine Protected Area
- Through the activities of the "Bootless Bay Marine Conservation Initiative (BBMCI)", concerned

institutions and local governments had actively collaborated and worked for various issues.

- In order to establish a MPA, the CEPA-JICA Project Team supported to formulate cooperation agreements (MoUs) with three land owning institutions (UPNG, CPC, CPG and Tahira farm), and had been implementing cooperative activities according to the joint action plan therein.

3. History of PDM Modification

PDM was revised once in 2017 (Please refer ANNEX 3: PDM).

4. Others

N/A

III. Results of Joint Review

1. Results of Review based on DAC Evaluation Criteria

Note) Evaluation Range: 1. Very high, 2. High, 3. Slightly high, 4. Slightly low, 5. Low, 6. Very low.

(1) Relevance

Very high.

The project can be judged that the relevance is very high from the following reasons:

1) Priority

[Consistency with the Japan's ODA policy]

In Japan's ODA policy, environmental conservation is one of priority issues, and Japan's ODA Policy for Independent State of Papua New Guinea (2016) states that "Environment and Climate Change" as one of the priority areas. This project is positioned under the "Natural Environment Conservation Program" in the rolling plan of the policy. Therefore, it can be said that this project is in line with Japan's ODA policy.

[Consistency with development policy of PNG]

- "Vision 2050 (2010)", the long-term development strategy of the PNG government, has "sustainable environment and climate change" as one of the seven pillars, and preserving natural resources and biodiversity as priority issues. In the "Development Strategic Plan 2010-2030 (2010)", developing legislative framework and policies related to the protection of terrestrial and marine areas, and promoting conservation of biodiversity by private sector, NGOs and customary landowners are as specific targets. Furthermore, the country has ratified the Convention on Biological Diversity and has equipped the "National Biodiversity Strategy and Action Plan (2007)" as required by the convention. Under it, the PNG government conducts various activities for conserving biodiversity. From the above, it can be said that project is consistent with the development policy of the PNG government.

2) Necessity

[Needs of executing agencies]

 The project is aimed at acquiring the necessary technology for implementing the development policy of PNG as described above. Therefore, the needs of concerned government agencies such as CEPA are high. Meanwhile, through the establishment of the National Conservation Council (NCC), Varirata National Park Management Committee and the network for marine protected area establishment, strengthening the local level natural environmental management structure and improving the capabilities of stakeholders will be also addressed.

[Needs of stakeholders in the target areas]

In the Varirata National Park, which this project states as the target site, conflict related to the use of natural resources (lands, timber) has occurred between the surrounding residents and customary landowners. On the other hand, the local government (provincial and LLG) has high interest in livelihood development and ecotourism promotion using the park related resources. The purpose of this project is to construct a protected area management model in which private sector, NGOs and customary landowners participate in collaboration with local governments. Therefore, it can be said that it meets the needs of local stakeholders.

3) Appropriateness as means

[Support for ensuring policy effectiveness]

With the new Policy on Protected Area, all existing protected areas will be redefined in a new framework, and at the same time they will be managed and established in new system. CEPA does not have enough knowledge and experience to promote it. Having a management and establishment model for protected areas is the most important and urgent countermeasure for CEPA. In accordance with the Policy on Protected Area, it can be said that this project, aiming to construct a management and establishment models for protected areas, is appropriate as a means of solving development issues.

[Appropriateness as a means of solving conservation issues]

 This project works to involve other central governmental ministries, local governments, and private sectors to promote biodiversity conservation that is also considered important in PNG where customary landownership is secured. Therefore, it is judged to be appropriate as a means of solving development issues.

(2) Effectiveness

Slightly high.

The project can be judged that the effectiveness is slightly high from the following reasons:

1) The project purpose

- CEPA's implementation capacity to be strengthened in the project purpose will be achieved through establishing protected area management and establishment models, and further develop institutional and personal capacities for effectively manage protected areas using the models. The project purpose is clear as it contributes directly to the overall goal in the PDM. "the protected area network is effectively managed by applying the protected area management (and established) models constructed by the project," and further it is planned to lead to the overall goal. - Indicators of the project purpose are; for measuring the degree of governance improvement for national level protected area management (indicator 1), and for measuring sustainable management of natural resources by residents in the model protected area (indicators 2, 3). Therefore, comprehensively verifies the degree of strengthening of "implementation capacity" of CEPA which is stated in the project purpose. Indicators accurately grasp the contents of the project purpose.

2) Cause-and-effect relationship between the project Purpose and the Outputs

- CEPA's "implementation capacity" set as a project purpose is multi-faceted and comprehensive capability for the management of protected area networks. This will be improved through Output 1, which is governance improvement for the management of protected areas at the national level and at the same time through Output 2 and 3 which are to build models of management and establishment of protected areas according to Policy on Protected Areas. The Outputs are sufficient to achieve the project purpose and planned to the extent that achievement can be expected at the end of the project.
- The establishment of the protected area management and establishment model (Output 2 and 3) cannot be achieved with legitimacy without the national level coordination (Output 1), while the national level coordination function is based on the model activities in the Output 2 and 3 to ensure technological effectiveness. In other words, the Outputs are complementary relationship and planned to have mutual cooperation.
- Practical techniques and knowledge obtained through the model activities are conveyed to other protected area management through the national level coordination mechanism (National Conservation Council (NCC)), at the same time, findings from other protected areas are disseminated through the coordination mechanism. With this interactive feedback, it is planned to be able to strengthen "implementation capacity" of CEPA more effectively.

3) Measures against external conditions

As assumptions from Outputs to the project purpose in the PDM, "PNG government policy support",
 "CEPA commitment", and "municipal commitment to implement model activities" are listed.
 Though these external conditions are recognized by stakeholders, it has not been sufficiently satisfied so far due to insufficient implementation capacity of CEPA (budget, personnel etc.).

- In Output 1, legislative justification for the National Conservation Council was a prerequisite, but despite the repeated efforts from the CEPA-JICA Project Team, the discussion turned twice, and the decision was not made in a timely manner. There is hindrance to the achievement of Output 1.

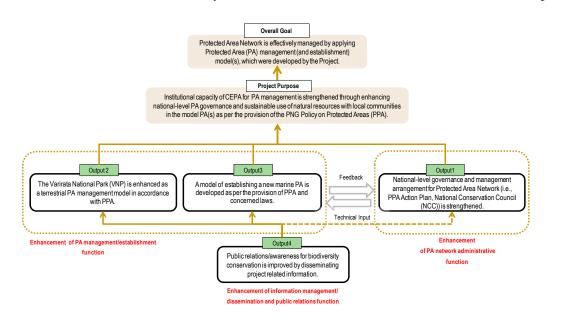


Figure 3: Outputs, Project Purpose and Overall Goal

(3) Efficiency

Slightly high.

The project can be judged that the efficiency is slightly high from the following reasons:

1) Scale and timing of input

- The major input by the Japanese side in this project is the budgets necessary for dispatching experts, procuring a vehicle, and implementing activities for management and establishment of target protected areas. Among them, a large part of budget is for the management of Varirata National Park. The contents of the activities were embodied through the process of preparing the facility development action plan and area development master plan after the start of the project. The project planned to decide the appropriate input scale and timing for those activities in the later stage only when its scope of works became clear. This approach is intended in the effective and efficient implementation of the project.
- Furthermore, while UNDP is implementing related activities such as biodiversity-related policy making and conservation activities in and around VNP, in the target areas, project activities have been carried out to avoid overlapping and to expect synergistic effects.

2) Cause-and-effect relationship between the outputs and the activities

- In Output 1, establishment of the National Conservation Council (NCC); in Output 2, model construction to properly manage Varirata National Park and its surrounding areas; and in Output 3, establishment of marine protected area, are planned. In the PDM, a series of necessary and sufficient activities are planned to efficiently produce those Outputs, and the indicators of each Output can assess the result of the series of activities.

(4) Impact

Very High.

The project can be judged that the impact is very high from the following reasons:

1) Contents of the Overall Goal / Causality Relationship

- The Overall Goal envisions that the CEPA's "capacity" enhanced by the project purpose level will lead to effective management of the entire protected area network in PNG, including other protected areas, in the future. The indicators are "application of protected area management model", "establishment of new protected area", and "certification of UNESCO biosphere reserve area in the area around VNP", but these accurately grasp the contents of the Overall Goal. It can also be expected to manifest itself as an effect of the project.
- Development issues in PNG related to this project include the development of legal systems and policies regarding the management of land and marine protected areas, and the promotion of biodiversity conservation by the private sector, NGOs, and customary landowners. The Overall Goal directly contribute to these development issues, and the relationship and logic between the Overall Goal and the development issues are clear.
- As an external condition of the Overall Goal, "commitment of relevant local governments for the recognition of UNESCO biosphere reserves" is mentioned, but in order to secure it, CEPA's continuous efforts and support for local governments are required. Although this is recognized by CEPA officials, it is important for Japan to encourage PNG to recognize the results of the project as biosphere reserves even after the project is completed.

2) Ripple effect

- The activities related to management and establishment model of the protected areas have been implemented as pilot projects taking versatility into account so that it can be disseminated to other areas of PNG. Since CEPA currently does not have such models, during implementing the Policy on Protected Area (PPA), those models will be utilized in other areas and applied under different ecosystems and socio-economic conditions, and further it is expected that it will change and develop in the future.
- In Output 2, the project aims to involve local governments (provincial and LLG) to promote

biodiversity conservation in regional scale including not only the protected areas but also the surrounding areas. These series of activities are planned to be assumptions that will lead to accreditation of UNESCO biosphere reserve nomination process in the regional scale in the future, and by appropriately implementing PR activities in Output 4, it will be possible for PNG citizens understand UNESCO biosphere reserve area and further it will spread to other areas of the country.

- All activities adopt a method to ensure sustainability such as private partnership, multi-stakeholder approach, participation type, etc.

3) Negative impact

The direct negative impact by this project is not assumed. However, in the activities for managing and establishing protected areas, there is a concern in generating conflicts among residents in the surrounding area due to lack of coordination with stakeholders. Moreover, the possibility that support to specific communities and residents may generate envy of residents who are not participating in activities. When implementing this project, it is necessary to take appropriate mitigation measures so that such negative impacts do not occur or will be minimized. In technology transfer by project, it is important to instruct jointly the possibility of potential negative impacts and mitigation measures in biodiversity conservation.

(5) Sustainability

High.

The sustainability of the project is expected to be maintained by the PNG government by the following reasons even after the project:

1) Policy and regulatory aspects

- The design of this project was planned to contribute directly to the development policy relating to biodiversity conservation by the Government of PNG, and the direction (overall goal, project purpose) matched with the priorities of the PNG government.
- In Outputs 2 and 3, concrete methods of conservation of the natural environment especially in customary land ownership will be developed as models, and those are expected to reflect in the policy level in the future. In Output 1, the establishment of the National Conservation Council contributes not only to implementation of policies, but also to support related policies and institutions by promoting relevant laws and regulations. Therefore, it is expected that sustainability in terms of policy will be secured.

2) Institutional aspects

 All project activities were planned based on the institutional mandates of CEPA, so project activities are expected to be continued by CEPA even after the project is over.

- The activities have been carried out primarily by the central government, but activities related to target protected areas were selected and formulated under the participation of local residence while listening to the opinion of the local governments. This will be the first step that each protected area will independently realize biodiversity conservation, not only to improve the sustainability in organizational aspect, but also to accumulate technologies through participating in the project activities.
- The livelihood development plans to be implemented in target communities of Output 2 were prepared in participatory manner by the residents. By doing so, it was possible to reflect the awareness and needs of residents to the plan, and by selecting the activities that can be continued from the perspective of the residents with high sustainability.

3) Technical aspects

 In technology transfer to CEPA counterparts has been implemented through OJTs and trainings in Japan. In addition, the project has created materials that will eventually contribute to the application of models in other areas such as park management plan and various guidelines.

4) Economic and financial aspects

- In order to maintain the models constructed through the project activities, it is necessary to reflect in the policy level. It contributes to strengthen the implementation capacity and budget of CEPA and promote cooperation with the private sector.
- Meanwhile, in order to ensure the sustainability of biodiversity conservation on the economic and financial aspects, a mechanism that will not be affected by governmental changes is indispensable. This project considers that it is important for the conservation activities at the local level to ensure economic sustainability and has been carried out various activities to strengthen it.

5) Precautions for implementation regarding sustainability

- In order to ensure sustainability of livelihood improvement activities planned and implemented in Output 2, it is effective to maximize the utilization of local resources in terms of technology and human resources. For example, on the technical side, it is expected to develop into a unique and highly acceptable custom-made product that is premised on customary land ownership. In terms of human resources, the project have devised ways to improve sustainability, such as recruiting volunteers with abilities and motivation from the target villages or neighbors, assisting local governments and CEPA staff, and training community facilitators to serve as bridges with residents.
- Livelihood development activities had an important purpose of introducing alternative livelihood means for residents, but this cannot always be achieved during the project period. Even after the project is completed, CEPA will continue to support the community as part of the management of VNP and will be involved in order for the residents to develop independently while utilizing the

know-how gained in the project process. It is expected to play an active role in coordinating with ministries (agriculture, land sector, etc.). However, for that purpose, it is necessary to strengthen the personnel and financial aspects.

2. Key Factors Affecting Implementation and Outcomes

<In relation to Project Purpose>

(1) Flexible change to work plan commensurate with implementation capacity

As a CP of CEPA, there were no dedicated personnel to the project, and all activities were carried out concurrently with their daily work. In addition, due to constraints in personnel and budget, it became clear in the first year that the precondition for carrying out all the activities planned in PDM might not be met. In consultation between CEPA-JICA, for activities from the second year onward, the highest priority activities were selected in consideration of personnel and budget constraints. As a result, it was decided that Output 1 activities were reduced and Output 2 and 3 were more prioritized. The PDM was revised for that purpose. As a result, resource selection and concentration were realized, it was more appropriate to produce results, and the connection with overall goal became clear.

<In relation to PDM Outputs>

(2) (Output 2 & 3) Creating a model for protected areas located in the suburbs of the Port Moresby metropolitan area

Since CEPA does not have a local office, it is a big challenge to manage protected areas in the rural areas of PNG daily. In addition, the PNG road network is underdeveloped, and most business trips from Port Moresby involve air travel and overnight stay, so it cannot be done frequently due to budget constraints. For the protected area establishment model that the project aims at in Output 3, we thought that it was important to build a system led by the local community while strengthening the efforts of local governments, local communities, and NGOs and building cooperation and cooperative relationships.

On the other hand, since 97% of PNG's land is customarily owned (not state-owned), environmental conservation within each administrative area is the responsibility of all local governments. However, many local governments do not have the necessary functions (policy, personnel, budget, etc.). In order to realize the protected area management model and establishment model by CEPA, it is necessary to improve the capacity of local governments and communities as a set. From the above points of view, the project site should be selected not necessarily based of priorities for biodiversity conservation, but the enabling environment where collaboration can be promoted. Specifically, 1) it is easy to access from the CEPA headquarters. , 2) It has a clear conservation core land (state or public owned land), 3) it has a high level of awareness of local governments due to its historical background, and 4) it has a market for regional promotion such as agriculture and ecotourism. The VNP and Bootless Bay area were

determined to be the only candidate sites.

(3) (Output 3) Development of cooperation framework centered on BBMCI

There were no marine protected areas in the Port Moresby metropolitan area, and so far, few marine biodiversity conservation activities had been carried out. As a result, the relevant ministries, and agencies other than CEPA were not very active because they did not necessarily recognize biodiversity conservation as their responsibilities. In order to promote cooperation with related ministries and agencies, it was necessary to first have a common understanding of the importance of biodiversity conservation, and then share roles for that purpose. Therefore, the project needed an "inter-organizational coordination body" to promote cooperation among related ministries and organizations. As a result, BBMCI was established as the foundation for all the organizations that the project establishes.

(4) (Output 3) Socio-economic survey integrated with environmental awareness activities

A socio-economic survey was started in June 2019 to collect basic information for preparing proposals and management plans for the establishment of marine protected areas. However, it was difficult to obtain necessary information due to the lack of basic understanding of the protected areas in the target area and concern that their fishing activities may be restricted. Therefore, we provided basic information on marine protected areas and the project in advance, created educational materials (posters and banners), and held workshops. As a result, we were able to obtain information effectively and reduced the risk of opposition movements when establishing a marine protected area in the future.

(5) (Output 3) Involvement in laws, policies, bylaws, and guidelines

The establishment of marine protected areas requires different procedures for different purposes than terrestrial protected areas. For example, one of the purposes of marine protected areas is sustainable management of fish stocks as part of the conservation of ecosystem functions. Marine protected areas need to be scientifically planned in consideration of the distribution of seagrass beds (spawning beds, etc.), coral reefs, mangroves, and sandy beaches (sea turtle spawning grounds, etc.). In addition, adequate consultation and understanding with the community, which is a user of fishery resources, is essential. When project started, there was no law related to marine protected areas, and the existing National Parks Act (1982), Fauna Act (1966), and Conservation Area Act (1978) did not have provision for marine protected areas. In order to promote the establishment of marine protected areas, the project supported the establishment of laws and policies as well, and the development of detailed rules and guidelines.

3. Evaluation on the results of the project Risk Management

The evaluation of the results of project risk management is described below. The table below shows the

PDM for risk management monitoring.

3-1 Risk management at the Project Purpose level

The most important risk factors were the change of government and the associated change of CP personnel, resulting negative impact on project implementation. In particular in Output 1, the related activities of other donors were a prerequisite, and the delay in their work is directly linked to the delay in the activities of this project. These were significant risks leading to the project's killer assumption.

In order to prevent and avoid these risks, we collected information on a regular basis and communicated closely with the parties concerned. We made predictions based on this, took early measures, and worked to improve the situation. In addition, as an adaptation measure, the project work plan was revised. As a result, the adverse impact was minimized when happening changes of the Minister of the Environment and the change of the person in charge by the change of the Governor of Central Provincial Government during the project period.

3-2 Risk management at the Output level

The following measures minimized the impact of the risks faced by the project.

(1) Output 1

Critical risk factor was the formalization of PA Bill, which was a prerequisite for implementing the activities in Output 1, and the progress of the UNDP-GEF project activities related to it. The first countermeasures for this risk factor were the collection of prior information, close communication, and prevention through direct support. Although the project was actively supported, the establishment of PA Bill was delayed by more than three years, which had an impact on the implementation of Output 1. In order to adapt to this risk (minimize adverse effects), CEPA-JICA Team revised PDM and flexibly modified many activities such as establishing Interim NPART instead of NCC.

(2) Output 2 & 3

In addition to the understanding of local residents, involvement and cooperation of local governments were important in the activities of the protected area management and establishment models. However, the change of central government and local government staff were risk factors. In fact, there was a frequent change of the staff in charge, and the project activities were affected each time. For adaptation, CEPA-JICA Team worked directly on the political level and communicated closely with the implementation level to minimize the impact. I was able to keep it in. In addition, the park staff hired by the UNDF-GEF project were not well coordinated, causing some confusion at the VNP staff, so CEPA-JICA Team were able to flexibly make changes such as collaborating with them under the activity of the project.

Table 16: PDM for Risk Monitoring					
Level	Risk factors	Prevention, avoidance, adaptation	Important prerequisites in PDM		
Project Purpose	 Change of government and change of personnel Changes in priority due to policy changes Inhibition of implementation system due to organizational restructuring No CP personnel Change of CP personnel 	 Collect information and communicate frequently to make predictions and implement early measures. CEPA-JICA cooperation 	 Management improvement and establishment of PA are priority activities in PPA implementation for CEPA. Local governments around VNP have strong commitments for landscape-level environmental management. 		
		- Prediction and early countermeasures			
Output 1	 PA Bill Formalization Delay Delayed progress of UNDP-GEF activities 	through information gathering and frequent communication - Support for progress - Working on CEPA			
Output 2	 Delayed progress of UNDP-GEF activities Understanding and cooperation of local governments Understanding and cooperation of local residents NCD development plan 	 Prediction and early countermeasures through information gathering and frequent communication Working with local governments and local residents Working on CEPA 	 Counterpart personnel are assigned for project activities Technical/Administrative Coordinator 		
Output 3	 Understanding and cooperation of local governments Understanding and cooperation of local residents UPNG cooperation Bootless Bay development plan by NCD and CPG Development plan for Loloata Resort Pacific Aviation Development Plan 	 Prediction and early countermeasures through information gathering and frequent communication Working with local governments and local residents Close communication with UPNG Working on Loloata Resort Working, supporting and collaborating with the environmental assessment section of CEPA 	 is assigned on full-time basis. Local governments around VNP have strong commitments for landscape level environmental management. 		
Output 4	- CEPA CP none or small number placement - Delayed expansion of CEPA facilities	 Prediction and early countermeasures through information gathering and frequent communication Working on CEPA 			

4. Lessons Learnt

(1) Review of work plan and implementation method corresponding to personnel changes

During the implementation of the project, the Minister of the Environment was changed twice (from Mr. John Thomas Pundari to Mr. Geoffrey Kama in June 2019, and to Mr. Wera Mori in November 2019), and the Governor was changed once (From Mr. Kila Haoda to Mr. Robert Agarobe in June 2017), and the structure of each government was changed accordingly. The new project officer has not taken over from his predecessor and was not necessarily an expert in the field or a person who was familiar with the required work. CEPA-JICA Team visited the people concerned individually, built a new relationship of trust, and succeeded in quickly gaining understanding and participation in the project activities.

Delays and confusion in activities due to personnel changes in concerned government agencies are a heavy burden on project implementation usually, but they are unavoidable. It is important to clearly recognize personnel changes as preconditions, not as external conditions, and to internalize the risks. In other words, it is necessary to flexibly and boldly adjust the project implementation structure and activity contents while anticipating changes in personnel and the working environment. It is also important to plan activities with sufficient time so that the risk of delay can be tolerated.

(2) Building step-by-step cooperation according to the formation of awareness of the parties concerned

In Output 3 of this project, many organizations such as NPART were set up to have a protected area establishment model, but instead of starting such organization as a first step, BBMCI was set up about two years before it. For that, first, we identified stakeholders and promoted mutual understanding and communication. UPNG and the Central Regional Government have signed a cooperation agreement. At that time, we held a ceremony to unveil the process to many people including public. By promoting this kind of communication in early stage of the project activities and setting steps, later activities could be developed smoothly.

A lot of coordination and patience are required to conclude a formal agreement, but in order to promote cooperation among organizations, it is important to first have a common understanding of each other's roles. In many cases, it takes time, so it is effective to first set up an organization with informal connections, and gradually upgrade to a formal agreement while discovering and enlightening key actors. It is important to start activities by promoting cooperation and cooperation at the field level, discuss rules such as various conditions for conducting at the organizational level, clarify them, and formally agree on them.

(3) Improvement of technique for coordinating between organizations

In order to enhance protected area management in PNG, it was necessary to introduce a participatory approach suitable for PNG's cultural context while sharing roles with related organizations, local governments, and communities. Therefore, as condition expected for CEPA capacity building (CD), it is important to create a framework for collaboration, how to manage collaborative activities, and how to coordinate among various stakeholders. The capacity of CEPA staff was enhanced by OJT (On the Job Training). As a result, the ability to coordinate between government departments and local governments has improved, leading to an overall improvement in the ability to promote collaboration among different organizations.

Not limited to PNG, biodiversity conservation sites around the world are in rural areas, and collaboration involving local governments and communities are essential. Given that the legal system, culture, and customs are different in different countries, cooperation framework should be made to order. It is important to clearly recognize inter-organizational coordination as one specialized skill, to improve communication methods and technical capabilities for information dissemination, and to discover and skilled leaders in various fields through working groups. Thus, it leads to have a suitable

protected area management model.

5. Other Important Issue

5-1 Progress of Environmental and Social Considerations

In the first place, the nature of the project is environmental protection and social development. All activities in the project period were conducted with strong considerations to avoid adverse impact in the environmental and social aspects. So far, no adverse impact has been observed. Since the project aims at the natural environmental safeguard by strengthening the capacity of concerned institutions and local communities especially in the protected area management, positive impacts in the environmental and social management are foreseen through the activities. In particular, positive impacts on the environment and society are expected through the activities of Output 2 and Output 3, which aim to achieve both biodiversity conservation and livelihood improvement.

5-2 Progress of Considerations on Gender/Peace Building/Poverty Reduction

All activities in the project period were conducted with strong considerations on gender, peace building and poverty reduction. So far, no adverse impact has been observed. While the target sites don't have serious problems in gender and peace building, poverty is one of the important issues. Activities in Output 2 have been conducted with the participation of local communities that were designed to contribute financial aspects of them. In the formulation process of livelihood development options, adequate participation of women has been ensured.

IV. For the Achievement of Overall Goals after the Project Completion

1. Prospects to achieve Overall Goal

While it can be said that CEPA's technical capabilities have enhanced through project activities, many policy and financial issues remain in order to effectively manage the protected areas scattered throughout the vast PNG territory. The biggest issues are related to the implementation system and funding, and further reinforcement is needed to achieve the overall goal. In terms of policy, it is necessary to establish a Protected Area Bill including related by-laws and regulations.

2. Plan of Operation and Implementation Structure of the PNG side to achieve Overall Goal

Although there is no specific Plan of Operations on the CEPA side to achieve the Overall Goal, activities toward it will be carried out as a part of their routine work and monitoring.

3. Recommendation for the PNG side

(1) Introduction of a mechanism that contributes to financial autonomy in protected area management

In many cases, biodiversity conservation activities are not designed to generate revenue and are carried out on the premise of external financial support. Protected areas established for the purpose of academic research should be actively promoted, and various activities to secure income, such as providing facilities to researchers (research stations and other park facilities), should be developed. The emphasis should be on creating a system that enables financial independence. On the other hand, in PNG, where the customary land ownership system is common, it is key to enhance financial mechanism in each protected area level, not protected areas as a whole, and introducing accounting system for each as VNP, the revenue should be managed as management budget. In rural protected areas, it is important to secure external financing mechanisms such as subsidies.

(2) Establishment and management of protected areas by local governments

Increasing the area of protected areas is one of the most important and usually extremely difficult tasks in biodiversity conservation in general. A local government involvement is essential for more efficient and effective establishment and management. By actively involve local governments; the ownership of the protected area of the local government can be enhanced. In addition, it will be easier to obtain cooperation such as monitoring by residents, and community-based management will be realized. In addition, it is possible to establish a custom-made protected area, such as a protected area in a small area where the central government may not show interest or a purpose that meets the expectations and needs of the area such as promotion of ecotourism. Furthermore, decision-making related to protected area establishment and management may be expedited comparing with the central government.

(3) Ensuring sustainability of the organization launched by the support of the project and contributing to biodiversity conservation in PNG

The project carried out various activities to enhance the governance of protected area management, established many cross-organizational frameworks such as VNPMC and BBMCI along with necessary provisions such as articles of incorporation and guidelines. Ensuring sustainability of these organizations and various tools for biodiversity conservation created in the project is indispensable for future management of PAs. In addition, the commitments of the parties elicited by the project may easily lose if CEPA does not continue to involve them for concerned activities.

(4) Enactment of the Protected Area Bill and implementation of related activities

Although many activities have been carried out in this project, the functions cannot be effectively fulfilled due to the delay in the Protected Area Bill and related activities. It is strongly recommended that the Protected Area Bill and related laws be enacted as soon as possible so as not to waste the five years of efforts of the people involved in the project.

4. Monitoring Plan from the end of the Project to Ex-post Evaluation

Since there is no extension as a JICA project, CEPA will continue monitoring their work in ex-post period.

ANNEX 1: Results of the Project ANNEX 2: List of Products Produced by the Project

(Please refer Separate Volume 1: Summary Achievements of the Project Components)

ANNEX 3: PDM ANNEX 4: R/D, M/M, Minutes of JCC

ANNEX 5: Project Monitoring Sheet

ANNEX

ANNEX 1: Results of the Project ANNEX 2: List of Products ANNEX 3: PDM ANNEX 4: R/D, M/M, Minutes of JCC ANNEX 5: Project Monitoring Sheet

ANNEX 1: Results of the Project

- **1.1 List of Dispatched Experts**
- 1.2 List of Counterparts
 - **1.2.1 CEPA**
 - 1.2.2 Beneficiaries of livelihood development activities
- **1.3** List of Trainings
 - **1.3.1** Trainings for local people
 - **1.3.2** Trainings in Japan
- **1.4** List of equipment
 - **1.4.1 Major Equipment Procured by JET**
 - 1.4.2 Other equipment and consumable goods
- **1.5** Amount of financial input
 - **1.5.1 Financial input from JICA**
 - 1.5.2 Financial input from CEPA

Annex 1 Results of the Project

1.1. List of Dispatched Experts

(1) Japanese Experts

	Name	Title and Specialization	MM in PNG	MM in Japan	Work Period
1	1 Mr. Koji Asano Chief Advisor/ Biodiversity Conservation		20.83	4.20	Jun. 2015-Apr. 2021
2	Mr. Hideki Imai	Hideki Imai Biodiversity Policy		0.10	Jun. 2015-May 2018
3	3 Ms. Junko Kikuchi Biodiversity Policy		2.07	0.00	Jan. 2019-Dec. 2019
4			6.17	0.10	Aug. 2015-Oct. 2017
5	5 Dr. Hiroshi Imae Protected Area Management		4.17	0.00	Feb. 2018-Feb. 2019
6	6 Mr. Togo Takamura Protected Area Management (2)		0.73	0.00	Oct. 2017-Nov. 2017
7	Mr. Hideaki Kanayama Facility Development (1)		2.50	1.25	Feb. 2017-Sep. 2017
8	Mr. Toshiharu Sakano	Facility Development (1)	2.30	0.55	Nov. 2017-Apr. 2018
9	Mr. Yoshifumi Hoshiai	Facility Development (2)	3.03	0.00	Apr. 2017-Oct. 2018
10	Ms. Junko Toyoshima	Natural Resource Management (1)	0.97	0.10	Aug. 2015-Sep. 2015
11	Dr. Yukio Nagahama	Natural Resource Management (1)	14.40	1.25	Jul. 2016-Dec. 2021
12	Mr. Yoshito Mochizuki	Natural Resource Management (2)/Livelihood Development/Training coordinator	17.30	4.62	Jun. 2015-Mar. 2021
13	Biodiversity Information Management/GIS/		11.53	0.70	Jun. 2015-Dec. 2020
		Total	96.36	12.87	

(2) Papua New Guinean Experts

	Name	Title and Specialization	Work Period
1	Mr. Ted Mamu	Local Coordinator	Jun 19 2015 to Nov 15, 2019
2	Ms. Lois Kesu Nakami	Expert in Marine Protected Area	Nov 02 to Dec 19, 2015
3	Mr. Muse D. Opiang	Expert in Marine Protected Area	Feb 19 to May 27, 2016
4	Mr. Job Opu	Expert in Marine Protected Area	Aug 01 2016 to Jun 30, 2018
5	Ms. Evengelyn Kove	Expert in Marine Protected Area	Oct 23 2018 to Dec 20 2019
6	Ms. Martha Wamo	Expert in Marine Protected Area	Sep 02 2019 to Dec 2020
7	Mr. Rex Namo	Expert in Terrestrial Protected Area	Apr 01 2017 to Aug 18 2017
8	Mr. Biatus Bito	Expert in Terrestrial Protected Area	Sep 27 2017 to Nov 30, 2018
9	Ms. Saina Jeffrey Philyara	Expert in Terrestrial Protected Area	Nov 29 2018 to Dec 2020
10	Mr. Yabba Toina	Expert in Community Development	Aug 18 to Sep 30, 2016
11	Mr. Alphonse Kambu	Expert in Protected Area Management	Oct 15 2018 to Dec 21 2019
12	Ms. Marjorie Kemoi	Expert in Man and Biosphere	Jan 22 to Mar31 2020
13	Mr. Tati Mitiel	JICA Park Coordinator	Mar 22 to June 21 2019
14	Mr. Monobe Tiube	JICA Senior Ranger	Mar 22 to June 21 2019
15	Mr. Gideon Warite	JICA Ranger	Mar 22 to June 21 2019
16	Ms. Regina Lei	Expert in Facility Improvement	Feb 07 to Mar 23, 2017
17	Mr. Howard Iorere	Expert in Facility Improvement	Apr 13 2017 to Apr 30 2018
18	Mr. Howard Iorere	Expert in Architectural Engineer	Aug 01 2018 to Feb 7 2020
19	Mr. Jeffrey Patterson	Expert in Architectural Engineer	Jul 10 2017 to Jan 26 2018
20	Mr. Ken Avi	Expert in Architectural Engineer	Jul 10 2017 to Feb 28 2018
21	Mr. Geno Ulu	Expert in Architectural Engineer	Apr 10 to Apr 16 2018
22	Mr. David Kawagle	Expert in Architectural Engineer	Jul 16 to Jul 31 2018

(3) Administrative Staff

Name	Title and Specialization	Work Period
1 Mr. Bernard Sapea	Secretary (PA)	Aug 26 to Nov 30, 2015
2 Ms. Dionne Ivarami	Secretary (PA)	Oct 16 to Oct 22, 2015
3 Ms. Nancy Valila Bobora	Secretary (PA)	Dec 7 2015 to Apr 2021
4 Mr. John Douglas Dege	Driver/ Office Supervisor	Feb 8 2016 to Feb 14 2020
5 Mr. Amos Toua	Driver	Feb 18 to July 10 2020

1.2. List of Counterparts

1. 2. 1 CEPA

	Name	Title and Organization	Title in the Project	Major Role and Responsibility	Work Pe	riod
1	Mr. Gunther Joku	Managing Director of CEPA	Project Director (PD)	 Chairman of JCC Provide overall advice and guidance for the project 	Jun. 2015- 2020	Dec.
2	Ms. Kay Kalim	Director for Sustainable Environment Program	Project Manager (PM)	 Serve as Project Manager for terrestrial and marine environment related issues particularly in relation to Output 2 & 3 	Jun. 2015- 2020	Dec.
3	Mr. Maino Virobo	Director for Policy Coordination and Evaluation	Co-Project Manager (Co-PM)	 Serve as Co-Project Manager for policy related issues particularly in relation to Output 1&4 	Jun. 2015- 2020	Dec.
4	Mr. Fredrick Ohmana	Senior Program Officer	Project Coordinator (PC)	 Coordinate and provide administrative and technical assistance for the project Oversee project activities of all output to report to PM and Co-PM 	Jun. 2015- 2020	Mar.
5	Ms. Katrina Solien	Manager, Policy (and International) Branch	Team Leader for Output 1	 Coordinate within CEPA for policy development, PA governance and related issue particularly in relation to Output 1 	Jun. 2015- 2020	Dec.
6	Ms. Rose Alphonse	Policy Analyst	Member, Output 1	 Conduct project activities with JET 	Jun. 2015- 2020	Dec.
7	Ms. Carmel Jonduo	Policy Analyst • International	Member, Output 1	 Conduct project activities with JET 	Jun. 2015- 2020	Dec.
8	Mr. Benside Thomas	Manager, Terrestrial Pas Branch	Team Leader for Output 2(& 1)	 Coordinate within CEPA for terrestrial PA management and related issue particularly in relation to Output 2 	Jun. 2015- 2020	Dec.
9	Ms. Yvonne Tio	Executive Manager, Sustainable Marine Environment Division	Leam Leader for Unitruit	 Coordinate within CEPA for marine PA management and related issue particularly in relation to Output 3 	Jun. 2015- 2020	Dec.
10	Mr. Bernard Suruman	Manager, Sustainable Marine Environment Division	Member, Output 3 (& 1)	 Conduct project activities with JET 	Jun. 2015- 2020	Dec.
11	Mr. Vagi Rei	Manager, Sustainable Marine Environment Division	Member, Output 3 (& 1)	 Conduct project activities with JET 	Jun. 2015- 2020	Dec.
12	Mr. Gerard Natera	Executive Manager, Spatial Systems and Data (GIS)	Team Leader for Output 4	 Coordinate within CEPA for information, GIS, remote sensing and related issue particularly in relation to Output 4 	Jun. 2015- 2020	Dec.

1. 2. 2

Beneficiaries of livelihood development activities

	Name	Title and Organization	Clan
1	Mr. Omoro Asi	Chairman/Kae Association Inc	Narime clan
2	Mr. Kelly Womara	Deputy Chairman /Kae Association Inc	Ianari clan
3	Mrs. Gerbi Toina	Treasurer/Kae Association Inc	Nadeka clan
4	Mrs Mabi Soge	Secretary/Kae Association Inc	Omani clan
5	Mr. Kala Meia	Executive Members/Dancing group member / Kae Association Inc	Omani clan
6	Mr. Aron Warite	Executive Members / Kae Association Inc	Nadeka clan
7	Mr. Arua Tiube	Executive Members / Kae Association Inc	Nadeka clan
8	Mr. Gideon Warite	Executive Members / Kae Association Inc	Nadeka clan
9	Mr. Sammie Toina	Executive Members / Kae Association Inc	Narime clan
10	Mr. Willie Toina	Executive Members / Kae Association Inc	Narime clan
11	Mrs. Elsie Iori	Executive Members / Kae Association Inc	Narime clan
12	Mr. Toana Ivai	Executive Members / Kae Association Inc	Ianari Clan
13	Mr. Ere Koeari	Executive Members / Kae Association Inc	Ianari Clan
14	Mr. Narai Billy	Executive Members / Kae Association Inc	Ianari Clan
15	Mr. Yabba Toina	Dancing Group leader / Kae Association Inc	Omani clan
16	Mr. Wahona Wahia	Dancing Group Reps / Kae Association Inc	Omani clan
17	Mrs. Iorio Toina	Dancing Group Reps / Kae Association Inc	Nadeka clan
18	Gari Omoro	Dancing Group member/ Kae Association Inc	Narime Clan
19	Elise Omoro	Dancing Group member/ Kae Association Inc	Narime Clan
20	Daube Moio	Dancing Group member/ Kae Association Inc	Narime Clan
21	Rose Moio	Dancing Group member/ Kae Association Inc	Narime Clan
22	Vanika Asi	Dancing Group member/ Kae Association Inc	Ianari Clan
23	Billy Asi	Dancing Group member/ Kae Association Inc	Ianari Clan
24	Civi Daube	Dancing Group member/ Kae Association Inc	Ianari Clan

	Name	Title and Organization	Clan
25	Kone Daube	Dancing Group member/ Kae Association Inc	Ianari Clan
26	Grace Kala	Dancing Group member/ Kae Association Inc	Omani clan
27	Kila Toina	Dancing Group member/ Kae Association Inc	Omani clan
28	Yorio Toina	Dancing Group member/ Kae Association Inc	Omani clan
29	Aroma Awea	Dancing Group member/ Kae Association Inc	Nadeka clan
30	Rose Sine	Dancing Group member/ Kae Association Inc	Nadeka clan
31	Sarua Warite	Dancing Group member/ Kae Association Inc	Nadeka clan
32	Mathew Kone	Dancing Group member/ Kae Association Inc	Nadeka clan
33	Mrs. Nobea Soge	Cooking Group leader / Kae Association Inc	Omani clan
34	Mrs. Beblyn Paul	Cooking Group Reps / Kae Association Inc	Narime Clan
35	Mrs. Mabi Ivai	Cooking Group Rep/ Kae Association Inc	Ianari Clan
36	Mrs. Daiva Boboro	Cooking Group Reps/ Kae Association Inc	Nadeka clan
37	Mrs. Rauwali Uwea	Cooking Group member / Kae Association Inc	Narime Clan
38	Mrs. Moale Orila	Cooking Group member / Kae Association Inc	Narime Clan
39	Mrs. Mabi Ivai	Cooking Group member / Kae Association Inc	Narime Clan
40	Mrs. Atama Ivai	Cooking Group member / Kae Association Inc	Narime Clan
41	Mrs. Vele Tiube	Cooking Group member / Kae Association Inc	Ianari Clan
42	Mrs. Koidi David	Cooking Group member / Kae Association Inc	Ianari Clan
43	Mrs. Aino Kisea	Cooking Group member / Kae Association Inc	Ianari Clan
44	Mrs. Kay Wahuto	Cooking Group member / Kae Association Inc	Ianari Clan
45	Mrs. Kila Toina	Cooking Group member / Kae Association Inc	Omani clan
46	Mrs. Kauka Koni	Cooking Group member / Kae Association Inc	Omani clan
47	Mrs. Bagua Mariori	Cooking Group member / Kae Association Inc	Omani clan
48	Mrs. Susan Toina	Cooking Group member / Kae Association Inc	Nadeka clan
49	Mrs. Sharon Moumu	Cooking Group member / Kae Association Inc	Nadeka clan
50	Mrs. Geva Momoa	Cooking Group member / Kae Association Inc	Nadeka clan
51	Mrs. Daiva Boboro	Cooking Group member / Kae Association Inc	Nadeka clan

1.3. List of Trainings

1.3.1 Traings for local people

Name of Training/Workshop	Participants (Institutions)	Period	Place	Remarks
Inception Workshop in Koiari	Local people from 8 wards, CEPA, UPNG, Central Provincial Administration	22 Oct. 2015	Kokoda Trail Hotel, Koiari LLG	To discuss how local community engages in tourism industry
Follow-up Workshop in Koiari	Local people from Furimuti ward and Depo ward, CEPA, TPA	14 Nov. 2015	Sogeri Lodge, Koiari LLG	To discuss tourism development options in Koiari area
Livelihood Development Workshop in Koiari	Local people from 4 clans, CEPA	25 Feb. 2016	Sogeri Lodge, Koiari LLG	To discuss how to form a social group for livelihood development activities
Forming social group for livelihood development	Representatives from 4 clans	30 Nov. 2016	Sogeri Lodge, Koiari LLG	To dicide member of social group and make packaged tour
Koiari Dancing Group Audition	Koiari Dancing Group (22 people)	22 Mar. 2017	VNP	To check performance level and confirm necessary action
Rehearsal of inaugural launching of ICC	Dancing and Cooking group (35 people)	13 Apr. 2017	VNP	To check their peroformance for launching event
Financial training	Key members (8 members) from KAE Association	14 Mar. 2019	ICC at VNP	To learn and improve financial management of the group
Study/Exposure tour	20 members from KAE Association	10 Apr. 2019	Boera village	To improve their performance and ability for group management
First trial tour	Cooking group from KAE Association	9 Nov. 2019	ICC at VNP	To enhance itiative for tourism development by CEPA and KAE Association
Evaluation Workshp for KAE Association	20 members from KAE Association	4 Mar. 2020	ICC at VNP	To evaluate livelihood development activities and
Second trial tour Association Association and cooking group from KAE Association, CEPA		18 Apr. 2020	ICC at VNP	To enhance itiative for tourism development by CEPA and KAE Association

1.3.2 Trainings in Japan

(1) Name of training: Training of terrestrial protected area and Biosphere Reserves Period: 5 Nov. – 19 Nov. 2016

	Name	Organization	Visited Institutions and Course
1	Ms. Kumaras Kay Kalim	Programs, CEPA	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University, Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National

	Name	Organization	Visited Institutions and Course
			University, Kokusai Kogyo.
2	Mr. Benside Thomas	Manager, Terrestrial Protected Areas Branch Programs, CEPA	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University, Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
3	Mr. Fredrick Ohmana	Senior Program Officer, Terrestrial Protected Areas Branch, CEPA	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University, Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.
4	Mr. Edward Kila	Deputy Provincial Administrator, Central Provincial Administration, Central Provincial Government	JICA HQ, Ministry of the Environment, The nature conservation society of Japan, Hakusan Biosphere Reserves council, Aya town, Miyazaki University, Teruha Forest Association Inc., Kyusyu Regional Forest Office, Conservation of natural environment center in Kanagawa prefecture, Yokohama National University, Kokusai Kogyo.

(2) Name of training: Training of marine biodiversity conservation and management of marine protected area Period: 28 Jul. – 11 Aug. 2018

	Name	Organization	Visited Institutions and Course		
1	Mr. Vagi Rei	Manager, Sustainable Marine Environment Division, CEPA	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.		
2	Mr. Bernard Suriman	Manager, Sustainable Marine Environment Division, CEPA	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.		
3	Ms. Martha Wamo	Liaison Officer, Sustainable Marine Environment Division, CEPA	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.		
4	Mr. Pius Piskaut	Senior Lecturer, University of Papua New Guinea	Ryukyu University, Ministry of Environment, Kyusyu Regional Forest Office, Biodiversity center of Japan, Tokyo University, The Nature Conservation Society of Japan, Yatsu-higata Nature Observation Center, Kokusai Kogyo.		

1.4. List of equipment

1. 4. 1	Major	Equipment	Procured	by	JET

No.	Name of Item	#	Specification	Date of Procurement	Purpose of use	Condition / situation after the Project
1	Photocopy machine (Multifunction)	1	Ricoh MPC 3003 MFP Colour	Jul. 2015	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
2	Desktop Computer including display	2	(1) LENOVO M73e(2) HP 600 i7-4790 C8T89AV	Jul. 2015 Sep. 2015	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
3	MS Office professional	1	MS office 2013 pro	Sep. 2015	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
4	Laptop computer	2	(1) Toshiba Satellite Pro R50(2) Toshiba DynabookAZ95/U	Jun. 2015 Mar. 2016	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
5	Projector	1	EpsonEB-955W	Jun. 2015	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
6	TV monitor	1	Sony LED TV (KLV40R552C)	Sep. 2015	CEPA-JICA office	Good / Transfer to CEPA in Nov 2020
7	Drone	1	(1) DJI Phantom 3 Professional(2) DJI Mavic 2 Pro	Aug. 2015 Nov. 2018	Output2 & 3	Good / Transfer to CEPA in Nov 2020
8	Digital camera	2	(1) Ricoh WG-5(2) Olympus TG4 including waterproof protector	Aug. 2015 Oct. 2015	Output2 & 3	Good / Transfer to CEPA in Nov 2020
9	Digital single-lens reflex camera	1	Canon EOS 7D Mark II EF-S18-135 IS STM	Aug. 2015	Output2	Good / Transfer to CEPA in Nov 2020
10	Telephotographic lens	1	EF100-400mm-F45-56L-IS-II	Aug. 2015	Output2	Good / Transfer to CEPA in Nov 2020
11	Video camera	1	Panasonic HC-WX970M-K	Jan. 2016	Output2	Good / Transfer to CEPA in Nov

No.	Name of Item	#	Specification	Date of Procurement	Purpose of use	Condition / situation after the Project
				1100010110110	use	2020
12	Handy GPS	2	Garmin Montana 650	Aug. 2015	Output2	Good / Transfer to CEPA in Nov 2020
13	Diving gear (Set of heavy equipment)	2	TUSA BC601B L size & XL size	Oct. 2016	Output3	Good / Transfer to CEPA in Nov 2020
14	Dive transceiver	1	Casio/LGS-RG005BA Logosease RG005	Oct. 2016	Output3	Good / Transfer to CEPA in Nov 2020
15	Boat	1	Boat(W23SA) 、 Motor(E40XMHL) 、 Boat Tailer (Al6.2M13T)	Aug. 2016	Output3	Good / Transfer to CEPA in Nov 2020
16	Kayak	2	Paddle Boat-Kayak Nereus III LLDPE, 2.2m paddle, EVA backrest, fabric seat	Jul. 2018	Output3	Good / Transfer to CEPA in Nov 2020
17	ArcGIS software	1	ArcGIS Desktop Standard CU, ArcGIS Spatial Analyst for Desktop CU, ArcGIS 3D Analyst for Desktop CU, ArcGIS Desktop backup media	Jul. 2015	Output 1~4	Good / Transfer to CEPA in Nov 2020
18	ENVI Single User Floating License	1	-	Jul. 2015	Output 1~4	Good / Transfer to CEPA in Nov 2020
19	Feature Extraction	1	-	Jul. 2015	Output 1~4	Good / Transfer to CEPA in Nov 2020
20	Satellite image	1 set	High resolution (50/60cm class), filming range: Varirata National Park (50km2) and surrounding area (10km coverage except for sea area), Motupore Island(0.15km2) and around Motupore Island (1km coverage)	Dec. 2015	Output 1~4	Good / Transfer to CEPA in Nov 2020

1.4.2 Other equipment and consumable goods

No.	Name of Item	Quantity	Purpose of use
1	Screen	1	CEPA-JICA office
2	UPS	2	CEPA-JICA office
3	Ink-jet printer	1	CEPA-JICA office
4	Laser printer	1	CEPA-JICA office
5	Electric transformer	1	CEPA-JICA office
6	Desk for printer	2	CEPA-JICA office
7	Portable HDD	1	CEPA-JICA office
8	HDD	1	CEPA-JICA office
9	Tablets	2	CEPA-JICA office
10	Desk	8	CEPA-JICA office
11	Tripod stand	1	Output2
12	Camera trap	11	Output2
13	Binoculars	3	Output2
14	Tape Measure	3	Output2 & 3
15	Plastic chair	100	Output2
16	Outdoor Table (Folding)	8	Output2
17	Bush knives	1	Output2
18	Plastic Rakes	1	Output2
19	Ladder	1	Output2
20	Plastic/bucket	1	Output2
21	Мор	1	Output2
22	Broom	1	Output2
23	Dustpan set	1	Output2
24	Claw Hammer Fibreglass Handle	1	Output2
25	Axe	2	Output2
26	Boots	3	Output2
27	GPS	2	Output2
28	Dive computer	1	Output3
29	Diving gear (mask, snorkel)	4	Output3
30	Diving boots	4	Output3
31	Wet suit	4	Output3
32	Diving flag	2	Output3
33	Mesh bag	4	Output3
34	Diving Glove	4	Output3
35	Weight belt	4	Output3

No.	Name of Item	Quantity	Purpose of use
36	Depth gauge	1	Output3
37	Electric torch	1	Output3
38	Paddle	4	Output3
39	Cool box	2	Output3
40	ET GeoWizareds	1	Output 1~4

1.5. Amount of financial input

1.5.1 Financial input from JICA

(1000 JPY)

Item		Japanese Fiscal Year (April-March)							
	2014	2015	2016	2017	2018	2019	2020/2021		
1. Preliminary survey	9,170	0	0	0	0	0	0	9,170	
2. Equipment	0	9,709	2,202	75	558	0	0	12,544	
3. Dispatchment of JET				89,398			328,933	418,331	
4. Operating costs	0	11,225	21,367	56,239	46,534	26,548	10,632	172,545	
4.1. JICA PNG office	0	0	0	15,711	8,100	0	0	23,811	
4.2. Operating cost by JET	0	11,225	21,367	40,528	38,434	26,548	10,632	148,734	
5. Trainings in Japan	0	0	2,493	0	2,928	0	0	5,412	
Total	201,878 416,133						618,012		

Note: Financial input for 2020/2021 is estimated amount.

1.5.2 Financial input from CEPA

								(PGK)
	Item	Papua New Guinean Fiscal Year (Jun-July)						
	Item	2015	2016	2017	2018	2019	2020	
1	Wages	61,152	61,152	61,152	61,152	0	0	244,608
2	Tools	8,000	5,000	0	12,000	0	0	25,000
3	Fuel/Lubricants	4,272	4,272	4,272	4,272	4,272	4,272	25,632
4	Maintenance	13,000	12,325	14,155	11,875	16,325	15,585	83,265
5	Sub-contract	50,000	70,000	60,000	70,000	80,000	80,000	410,000
6	Transport	48,000	48,000	48,000	48,000	48,000	48,000	288,000
7	Purchse of machineries	12,000	0	0	0	25,000	0	37,000
8	Parts for machineries	11,750	9,340	8,270	12,575	15,225	11,165	56,575
9	Uniforms	0	0	0	0	0	15,640	15,640
10	Others	696	696	696	696	1,096	1,096	4,976
	Total	197,120	210,785	196,545	220,570	189,918	175,758	1,190,696

ANNEX 2: List of Products (Report, Manuals, Handbooks, etc.) Produced by the Project

List of Major Products in Management and Administration : June 2015 - December 2020

Activity	Number	Name of deliverable	Date of delivery
JCC	1	Minutes of the meeting of the 1st JCC meeting	Jul-15
JCC	2	Minutes of the meeting of the 2nd JCC meeting	Oct-16
JCC	3	Minutes of the meeting of the 3rd JCC meeting	Dec-17
JCC	4	Minutes of the meeting of the 4th JCC meeting	Apr-19
JCC	5	Minutes of the meeting of the 5th JCC meeting	Dec-20
MS	6	Monitoring sheet Ver.1	Aug-15
MS	7	Monitoring sheet Ver.2	Dec-15
MS	8	Monitoring sheet Ver.3/Progress report	Jun-16
MS	9	Monitoring sheet Ver.4	Dec-16
MS	10	Monitoring sheet Ver.5	Jun-17
MS	11	Monitoring sheet Ver.6	Dec-17
MS	12	Monitoring sheet Ver.7/Progress report	May-18
MS	13	Monitoring sheet Ver.8	Dec-18
MS	14	Monitoring sheet Ver.9/Progress report	Jun-19
MS	15	Monitoring sheet Ver.10	Dec-19
MS	16	Monitoring sheet Ver.11	Jun-20

List of Major Products in Output1 : June 2015 - December 2020

Activity	Action	Number	Name of deliverable	Date of delivery	Expert in charge
1.1	1.1.1	1	Outline of hearing about EC (Environmental Council) establishmen	Jul-15	Imai
		2	Procedure for partial amendment of CAA	Jul-15	Imai
		3	Report on Necessity of establishment of Working Committee for Protected Area	Jul-15	Imai
		4	Draft-request-letter-Chief Legal Council(regard-NCC	Oct-15	Imai
		5	Seeking legal assistance in the establishment of the national conservation (NCC) [Letter to	Nov-15	Imai
		3	the Chief Legal officer, CEPA	100-15	Imai
			JICA & UNDP MEETING (held today) ON PA BILL INPUTS – MEETING	51.15	• ·
		6	RESOLUTION	Feb-17	Imai
		_	Implementing the project for biodiversity conservation through implementation of the PNG		
		7	policy on Protected Areas	Feb-17	Imai
		8	Comment on the Draft Protected Area Bill	-	Imai
			Comparison between Section 4. to 11. in Conservation Area Act (CAA) and Section 17 to	* * * * *	
	1.1.2	1	28 of Environment Act 2000	Jul-15	Imai
		2	Draft-0 of Partial Amendment of the Conservation Area Act 1978	Jul-15	Imai
		3	Policy and Legal Review Regarding NCC on PA	Jan-19	Kikuchi
			Draft National Executive Council (NEC) document on the Endorsement of Bootless Bay a:		
		4	an Interim Protected Zone (National Marine Sanctuary) and the establishment of the Interin	Mar-19	Kikuchi
			National Conservation Council (NCC)		
			Final version of National Executive Council (NEC) document on the Endorsement of		
		5	Bootless Bay as an Interim Protected Zone (National Marine Sanctuary) and the	Jun-19	Kikuchi
			establishment of the Interim National Conservation Council (NCC		
	1.1.3	1	Draft Terms of Reference for Interim NCC	Mar-19	Kikuchi
		2	Draft Terms of Reference for NPART	Mar-19	Kikuchi
		3	Draft Terms of Reference for RPART	Mar-19	Kikuchi
		4	Information Brief on Establishment of the National Protected Areas Round Table signed	Oct-19	Kikuchi
		5	Draft Nomination Letter for NPART	Dec-19	Kikuchi
	1.1.4	1	Memorandum of Understanding (MOU) between JICA & CEPA on Information Complex Center, Varirata National Park	Mar-19	Kikuchi
		2	official Memo on Establishment notice for VNP Management Committee & Nominations for Membership	Jun-19	Kikuchi
		3	Terms of Reference of VNP management Committee endorsec	Aug-19	Kikuchi
		4	1st Management Committee Meeting Minutes	Aug-19 Aug-19	Kikuchi
		5	2nd Management Committee Meeting Minutes	Nov-19	Kikuchi
		5	Draft Memorandum of Understanding between CEPA & Central Provincial Government or	100-19	Kikucili
	1.1.5	1	establishment of marine protected area in Miriged:	Mar-19	Kikuchi
		2	Draft Conservation Easement between CEPA & Tahira Farm	Mar-19	Kikuchi
			Draft Conservation Easement between CEPA & Central Papua Conference of Seventh-Day		
		3	Adventi	Mar-19	Kikuchi
		4	Draft Conservation Easement between CEPA & UPNG	Mar-19	Kikuchi
		5	Final NEC submission & Annexures	Jul-19	Kikuchi
		6	MOU Between CEPA & CPG regarding Mirigeda Protected Area signed	Aug-19	Kikuchi
		7	Draft Amendment to Exisiting MOU between CEPA and UPNC	Oct-19	Kikuchi
		8	Terms of References for Protected Area Working Group finalized	Nov-19	Kikuchi
		9	Draft Terms of R efernces for Protected Area Management Committee	Nov-19	Kikuchi
		10	Information Brief on declaration of Bootless Bay as an Interim Protected Zone signed	Dec-19	Kikuchi
1.2	1.2.1	1	Draft Agenda of 1st NPART meeting	Dec-19	Kikuchi
		2	Draft Invitation Letter for 1st NPART meeting	Dec-19	Kikuchi
		3	Call for Expression of Interest for NPART members	Dec-19	Asano
		4	ToRs Interim NPART submitted to the 1st NPART Meeting	Feb-20	Asano
		5	Final Program for the Interim NPART Meeting	Feb-20	Asano
		6	Minutes of 1st Interim NPART Meeting	Feb-20	Asano
	1.2.3	1	Draft MAB Application	Dec-19	Kikuchi
		2	Final MAB Application	Mar-20	Asano

2.1	Action	Number	Name of deliverable	Date of delivery	Expert in charge
	2.1.1	1	METT sheet (Initial)	Sep-15	Watanabe
		2	Introductory Short Video	-	Watanabe
		3	Management Improvement Assessment and Action Plar	Feb-17	Watanabe
	2.1.2	1	Camera Trap Positions	Sep-15	Watanabe
		2	Manual for input Excel Datasheet of Camera	Sep-15	Watanabe
		3	Plan of Financial Management and Improvement of VNP Revenue system	Sep-16	Watanabe
		4	Design of regulation signboard in VNP	Jan-16	Watanabe
		5	Plan for security improvement in VNP	Oct-16	Watanabe
		6	MOU of bird watching project	Feb-16	Watanabe
		7	Reconnaissance Assessment of Potential Bird Watching sites	Feb-16	Watanabe
2.2	2.2.2	1	Monitoring format and manual	Oct-15	Watanabe
		2	List of mammal and bird	Mar-17	Watanabe
		3	Report of camera trap monitoring of fauna	Nov-17	Watanabe
		4	New camera-traps layout map	Sep-16	Watanabe
		5	Camera Trap Survey Plan for the Progress Stage	Dec-18	Imae
	2.2.3	1	Report of the vehicle number at main gate	Mar-17	Imai
		2	Gazette new fee system in VNP	Feb-17	Imai
		3	Guide map with new fee system	Aug-16	Watanabe
		4	Gazettal Instruments for the VNP new entry fee system, signed by Office of Legislative	Feb-19	Imaa
		4	Council, CEPA MD and the Minister	Feb-19	Imae
	2.2.4	1	WrapUp report-1st trial patrol	Mar-17	Imai
	2.2.5	1	Bird Watching Shelter Design	Jul-17	Watanabe
		2	Suggestion to the Birdwatching Project at the Progress Stage	Mar-18	Imae
		3	E-copy of the guidebook "Birds of PAU" for reprinting	Feb-19	Imae
	2.2.6	1	Draft By-law	Sep-17	Watanabe
		2	Revised draft By-law	Mar-18	Imae
2.3	2.3.1	1	VNP Facility assessment report	Dec-15	Imai
	2.3.2	1	Facility Development Plan	Feb-16	Imai
2.4	2.4.1	1	Report of renovation of the existing facilities at VNP (2016)	Dec-16	Imai
	2.4.2	1	Varirata National Park Guide Map	Aug-16	Watanabe
	2.4.3	1	Preliminary study report	Jan-17	Imai
					Imai/Kanayama/
		2	Master Plan for Information Center Complex	Feb-17	Hoshiai
		3	Detailed plan of renovating parking area	May-17	Imai
		4	Detailed designs for renavation of old Information Centre and plat form	Feb-17	Kanavama/Hoshia
		5	Completion report of rehabilitation of car park area	Aug-17	Imai
		6	Set of final drawing (wood deck, Stair, Handrail & Ramp)	Mar-18	Sakano/Imai
		7	Tentative Plan on the Equipment for ICC (draft for funding proposal)	Mar-18	Imae
		8	Contract documents for Wood decking work	Jul-18	Hoshiai
		9	Final display contents for New information center	Sep-18	Imae/Hoshiai
		10	Punch list for wood decking work	-	Hoshiai
		10	Circumstances of construction of Information center (IC) complex	- Oct-18	Hoshiai
		12	Completion Certificate for wood decking work	Dec-18	
		12	Final report for information center complex	Dec-18	Hoshiai
		13	Draft MOU for the handover of ICC from JICA to CEPA	Feb-19	Hoshiai
					Imae
	2.1.1	15	MOU for the handover of ICC from JICA to CEPA	Mar-19	Kikuchi
	2.4.4	1	Contract for the Construction of New Information Center in VNP	Jan-17	Kanayama/Sakano
		2	Detail design and shop drawings	Aug-17	Kanayama/Sakano
		3	Building permit	Oct-17	Kanayama/Sakano
		4	Information center architectural set (Final drawing	Mar-18	Sakano
		5	As built drawing	Apr-18	Sakano
		6	Contract Closeout Document	May-18	Sakano
2.5	2.5.1	1	METT sheet (Mid)	Oct-17	Watanabe
	2.5.2	1	TOR for biodiversity survey	Jan-17	Watanabe
		2	Contract documents for biodiversity survey	Jan-17	Watanabe
		3	Reports and products for biodiversity survey	Nov-17	Watanabe
		4	Formal clarification on the approval status of IPCA reports	Mar-18	Imae
		5	Comment Response Sheet on IPCA Final Report	Mar-18	Imae
		6	Comment Response Sheet on Invasive Species Management Plan	Mar-18	Imae
		7	Plan of Biodiversity Seminar	Mar-18	Imae
			Final Reports of Biodiversity Survey (Fauna, Flora, Invasive Species Management Plan,		
		8		Oct 19	
		8	Enviironmental Monitoring, Executive Summary)	Oct-18	Imae
		8 9		Oct-18 Oct-18	Imae
			Enviironmental Monitoring, Executive Summary) Field Guide Brochures (Mammals, Birds, Reptiles, Frogs, Invertebrates, Plants Biodiversity Seminar (implementation in Oct-18, Full Report in Dec-18)	Oct-18 Dec-18	-
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2.6		$\begin{array}{c} 9\\ 10\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	Enviironmental Monitoring, Executive Summary) Field Guide Brochures (Mammals, Birds, Reptiles, Frogs, Invertebrates, Plants Biodiversity Seminar (implementation in Oct-18, Full Report in Dec-18) TOC of Park Management plan by using New Information Center Complex Draft plan of Financial Management Draft plan of Security Management Draft Davestration Plan Draft Development and Utilization Plan Draft Development and Utilization Plan Draft Cogstic Support Plan Draft Ark Management Plan VNP Management Plan Ticket form for admission fee Bookkeeping manual for park coordinator Materials for 1st book-keeping training for park manager and park rangers Terms of Reference for Variata National Park management committee Financial form for for opening a bank account First draft packaged tour with Kae Association Draft park targ monitoring report at progress stage	Oct-18 Dec-18 Sep-17 Mar-18 Mar-18 Mar-18 Dec-18 Dec-18 Dec-18 Jan-19 Jan-19 Jan-19 Jan-19 Mar-19 Apr-19 Apr-19 Apr-19 Apr-19 May-19 Jul-19 Jul-19	Imae Imae Asano Imae Imae Imae Imae Imae Asano Mochizuki Mochizuki Kikuchi Mochizuki Mochizuki Mochizuki Mochizuki Mochizuki
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Activity	Action	Number	Name of deliverable	Date of delivery	Expert in charge
		16	Program of 2nd meeting of Park Management Committee	Oct-19	Kikuchi
		17	Meeting minutes for 2nd meeting of Park Management Committee	Nov-19	Kikuchi
		18 19	Report for first traial tour for Varirata National Park Related documents for implementaion of second trial tour	Dec-19 Feb-20	Mochizuki Mochizuki
		20	Meeting minutes for 3rd meeting of Park Management Committee	Mar-20	Kikuchi
		20	Camera trap monitoring report from July to December 2019		Mochizuki
		21	VNP promotion video	Apr-20 Jun-20	Ochi
		22	Meeting minutes for 4th meeting of Park Management Committee	Jul-20 Jul-20	Kikuchi
		23	Report for second traial tour for Varirata National Park	Jul-20 Jul-20	Mochizuki
		25	Report of Achievements of Bird Watching Project	Oct-20	Mochizuki
2.7	2.7.1	1	Analysis note of Koiari Five Year Development Plan	Nov-15	Mochizuki
2.7	2.7.1	2	Analysis note of Rohart Five Fear Development Flan	Sep-16	Mochizuki
		3	Analysis note of Central Province Development Plan	Nov-15	Mochizuki
		4	Analysis note of Central Frontice Development Flan	Mar-17	Mochizuki
	2.7.2	1	Documents for stakeholder consultations with Koiari LLG	-	Mochizuki
	21712	2	Documents for stakeholder consultations with Central Province (Letter from Central provin	Apr-17	Mochizuki
		3	Final version of Koiari Five Year Development Plan for submitting Hiri District office	Apr-18	Mochizuki
		4	Koiari Five Year Development Plan	Aug-18	Mochizuki
	2.7.3	1	Memo of the major changes of the new development plan	Sep-18	Mochizuki
	2.7.5	2	Final Report of the activities related to preparation of development planning	Dec-19	Mochizuki
		3	Final version of Central Province Development Plan (2018-2022)	Dec-19 Dec-19	Mochizuki
	2.7.4	1	Guiding Principles to Introduce Biosphere Reserve	Dec-15	Mochizuki
2.8	2.8.1	1	TOR of Socioeconomic survey	Feb-16	Asano
2.0	2.0.1	2	Contract Document of Socioeconomic survey	Jul-17	Asano
		3	Inception report social mapping and socioeconomic survey	Jul-17	Asano
		4	Draft final report of social mapping and socioeconomic survey	Nov-17	Asano
		5	Final report of social mapping and socioeconomic survey	May-18	Asano
	2.8.3	1	Report for Inception Workshop for Koiari	Oct-15	Asano
	2.8.5	2	Report of Follow-up Workshop for Kolari	Nov-15	Asano
		3	Report for workshop on Livelihood development	Feb-16	Mochizuki
		4	Other related report	-	Mochizuki
	2.8.5	1	Meeting minutes for discussion with relevant stakeholders	Sep-16	Mochizuki
	2.8.5	2	Tourism reource note around Koiari area	Sep-16	Mochizuki
		3	Member list of social group	Jun-17	Mochizuki
		4	Draft proposed frame of livelihood development	Mar-17	Mochizuki
		5	Meeting minutes for discussion with social group	Mar-17	Mochizuki
		6	Draft Livelihood development plan	Aug-17	Mochizuki
		7	Livelihood development plan	Aug-18	Mochizuki
	2.8.6	1	Memo of role and responsibility of Koiari group	Aug-17	Mochizuki
	2.0.0	2	Memo of implementation plan for Study/Exposure tour	Apr-18	Mochizuki
		3	Report on Koiari Traditional Dancing Group Audition	Mar-17	Mochizuki
		4			
			Dancing and Cooking Group's Rehearsal Report	Apr-17	Mochizuki
		5	Report for Inaugural Launch for the Renovated Facilities in Varirata National Park	Apr-17	Mochizuki
		6	World Environmental Day Event Report	Jun-17	Mochizuki
		7	Memo of implementation plan for FAM tour	Apr-18	Mochizuki
		8	Application form for registration IPA	-	Mochizuki
		9	Series of Meeting minutes of Kae association	- N 10	Mochizuki
		10	News article for notice of intention to apply for the incorporation of an association	Nov-18	Mochizuki
		11	Report of dance group and cooking group activities for ranger workshop	Dec-18	Mochizuki
		12	Implementation Monitoring Report for Livelihood Development Activities period from	Feb-19	Mochizuki
			August 2018 to January 2019)		
	ļ	13	Draft itinerary for study/exposure tour	Mar-19	Mochizuki
	ļ	14	Materials for 1st book-keeping training for Kae association	Mar-19	Mochizuki
		15	A report of 1st book-keeping training for Kae association	Apr-19	Mochizuki
		16	Submitted documents for opening a bank account	May-19	Mochizuki
		17	Report of study/exposure tour for Kae association	May-19	Mochizuki
		18	Report for Kae association participation of the inaugural ceremony for ICC at VNP	Jul-19	Mochizuki
		19	Report for Kae association participation of World Environmental Day in 2019	Jul-19	Mochizuki
		20	Implementation Monitoring Report for Livelihood Development Activities period from	Aug-19	Mochizuki
			February to July 2019		
		21	Program of tourism training for Kae Association	Aug-19	Mochizuki
		22	Related documents for implementation of first trial tour	Nov-19	Mochizuki
		23	Report for first traial tour for Varirata National Park	Dec-19	Mochizuki
		24	Related documents for implementation of second trial tour	Feb-20	Mochizuki
		25	Implementation Monitoring Report for Livelihood Development Activities period from August 2019 to March 2020	Mar-20	Mochizuki
		26	Report for Evaluation Workshop for Kae Association	Mar-20	Mochizuki
		27	Report for second traial tour for Varirata National Park	Jul-20	Mochizuki
		27	Presentation materials and action plan for Kae Association	Nov-20	Mochizuki

A 11 11				D (CIII	T (* 1
Activity 3.1	Action 3.1.1	Number	Name of deliverable	Date of delivery	Expert in charge Nagahama
3.1	3.1.1	1	Support Letter from Office of Coastal Fisheries Development Agency	6 Dec. 2016 19 Apr. 2016	Nagahama
	5.1.2	2	Support Letter from Central Village Environmental Services (CVES)	10 May. 2016	Nagahama
		3	Memo on following up support letter to stakeholders	7 Nov. 2016	Nagahama
		4	Stakeholder assessment memo	7 Nov. 2016	Nagahama
	3.1.3	1	Preliminary survey report	7 Sep. 2015	Asano
		2	Joint Observation Trip memo	15 Aug. 2016	Nagahama
		3	Situation analysis Report	8 Nov. 2016	Nagahama
		4	Problems and objective analysis report	28 Oct. 2016	Nagahama
	3.1.4	1	Roadmap to establish MPA in PNG	30 Nov. 2016	Nagahama
	3.1.5	1	Short list of candidate site for MPA in Bootless Bay	11 Nov. 2016	Nagahama
		2	Report of Rapid Marine Biodiversity Survey in Bootless Bay	13 Dec. 2016	Nagahama
3.2	3.2.1	1	Meeting memos (8 memos)	13 Nov. 2016	Nagahama
		2	Report for inauguration ceremony	24 Oct. 2016	Nagahama
		3	Letter for assistance toward its marine environment protection and conservation	8 Dec. 2016	Nagahama
		4	Coastal Clean-up event and 1st BBMCI meeting program	7 Apr. 2017	Nagahama
	222	5	Coastal Clean-up and 1st BBMCI report	24 Apr. 2017	Nagahama
	3.2.2	1	Bootless Bay Inlet joint observation report	15 Aug. 2016	Nagahama
		2 3	Inception marine workshop report Draft MoU between University of Papua New Guinea and CEPA	24 Aug. 2016	Nagahama Nagahama
		3 4	2nd marine workshop report	12 Dec. 2016	Nagahama
		5	Coastal Clean-up event and 1st BBMCI meeting program	1 Mar. 2017	Nagahama
		6	Coastal Clean-up event and 1st BBMCI meeting program	7 Apr. 2017 24 Apr. 2017	Nagahama
		7	2nd BBMCI meeting memo	24 Apr. 2017 28 Apr. 2017	Nagahama
		8	Draft BBMCI bylaws	19 Apr. 2017	Nagahama
		9	Final BBMCI bylaws	19 Apr. 2017 19 Jun. 2017	Nagahama
		10	MoU between University of Papua New Guinea and CEPA	25 Jun. 2017	Nagahama
		10	3rd BBMCI meeting	3 Jul. 2017	Nagahama
			4th BBMCI meeting and the Launching of CEPA-UPNG on "Marine Protected Area in Tahira and		Ũ
		12	Motupore Island under BBMCI report	4 Sep. 2017	Nagahama
		13	BBMCI formulation report	6 Sep. 2017	Nagahama
		14	Final work plan between Tahira Farm and CEPA	25 Jan. 2018	Nagahama
		15	MoU between University of Tahira Farm and CEPA	25 Jan. 2018	Nagahama
		16	Joint Site Observation Memo in Tahira Farm	25 Feb. 2018	Nagahama
		17	Draft work plan between Central Papua Conference and CEPA	26 Feb. 2018	Nagahama
		18	Manus Island and Ahus Island Field Visit Report	22 Mar. 2018	Nagahama
		19	MoU between Central Papua Conference and CEPA	13 Apr. 2018	Nagahama
		20	5th BBMCI meeting report	15 Apr. 2018	Nagahama
		21	Draft zoning plan of CPC land	22 Aug. 2018	Nagahama
		22	Final work plan between Central Papua Conference and CEPA	24 Aug. 2018	Nagahama
		23	6th BBMCI meeting report	14 Sep. 2018	Nagahama
		24	Assessment of elaboration of deed and easement	13 Jan. 2019	Nagahama
		25 26	Joint site observation memo at Mirigeda Draft of MoU between Central Province Government and CEPA	21 Jan. 2019 21 Jan. 2019	Nagahama Nagahama
		20	Draft of work plan under MoU between CPG and CEPA	15 Feb. 2019	Nagahama
		28	Draft ToR of Bootless Bay National Marine Sanctuary Working Group	2 Mar. 2019	Nagahama
		20	7th BBMCI meeting report	6 Mar. 2019	Nagahama
		30	Draft conservation easement between Tahira Farm and CEPA	8 May. 2019	Nagahama
		31	Draft conservation easement between Cental Papua Conference and CEPA	10 May. 2019	Nagahama
		32	Final work plan between Central Papua Conference and CEPA	9 Aug. 2019	Nagahama
		33	MoU between Central Province Government and CEPA	9 Aug. 2019	Nagahama
		34	8th BBMCI meeting report	7 Nov. 2019	Nagahama
		35	Final ToR of Bootless Bay National Marine Sanctuary Working Group	14 Nov. 2019	Nagahama
		36	Report on establishing working group, public consultation and approval of Bootless Bay National	18Nov. 2019	Nagahama
		50	Marine Sanctuary proposal	181NOV. 2019	Naganama
		37	3rd BBMCI workshop report	24 Nov. 2019	Nagahama
		38	9th BBMCI / 1st Bootless Bay National Marine Sanctuary Working Group meeting report	6 Feb. 2020	Nagahama
		39	Clearane Advice on Conservation Easement	10 Jun. 2020	Nagahama
		40	Program on signing ceremony of conservation easement	20 1 2 1	NI I
		41	Signed Conservation Easement between CEPA and CPC	20 Aug. 2020	Nagahama
	2 7 7	42	Report on signing ceremony of conservation easement	27 Aug. 2020	Nagahama Nagahama
	3.2.3	1 2	Central Papua Conference leased land boundary map University of Papua New Guinea leased land boundary map in Tahira and Motupre Island	5 Jul. 2016	Nagahama Nagahama
		3	Tahira Farm leased baundary map	5 Jul. 2017 25 Oct. 2017	Nagahama
		4	Mirigeda, Central Province Government land boundary map	7 Jul. 2017	Nagahama
			Bootless Bay National Marine Sanctuary Proposal by Bootless Bay National Marine Sanctuary		-
		5	Workging Group	22 Nov. 2019	Nagahama
3.3	3.3.1	1	Dfart conservation deed	28 Aug. 2018	Nagahama
	3.3.2	1	Draft protected area application form	7 Mar. 2019	Nagahama
		2	Draft form of Exression of Interest for Establishing Protected Area	12 Mar. 2019	Nagahama
		3	Final form of proposal for establishment of a protected area	2 Sep. 2019	Nagahama
		4	Final form of Expression of Interest for Establishing Protected Area	2 Sep. 2019	Nagahama
		5	Draft Bootless Bay National Marine Sanctuary Proposal	24 May. 2019	Nagahama
		6	Bootless Bay National Marine Sanctuary Proposal	22 Nov. 2019	Nagahama
		7	ToR of marine biodiversity survey	4 Sep. 2017	Nagahama
		8	Contract of marine biodiversity survey	12 Jan. 2018	Nagahama
		9	Inception report of marine biodiversity survey	15 Jan. 2018	Nagahama
		10	Interim report of marine biodiversity survey	1 Mar. 2018	Nagahama
		11	Final reprot of marine biodiversity survey	30 Apr. 2018	Nagahama
		12	ToR for social mapping and socio-economic survey in Bootless Bay	18 May. 2019	Nagahama
		13 14	Contract of social mapping and socio-economic survey in Bootless Bay	10 Jun. 2019	Nagahama Nagahama
		14	Inception report of social mapping and socio-economic survey in Bootless Bay Amendment of contract period of social mapping and socio-economic survey in Bootless Bay	5 Jul. 2019	Nagahama Nagahama
		15	Draft final report of social mapping and socio-economic survey in Bootless Bay	9 Sep. 2019 30 Nov. 2019	Nagahama
		10	Reamendment of contract period of social mapping and socio-economic survey in Bootless Bay	12 Dec. 2019	Nagahama
		18	Final reprot of social mapping and soci-economic survey in Bootless Bay	12 Dec. 2019 18 May. 2019	Nagahama
			Program for public consultation for the Bootless Bay National Marine Sanctuary proposal as 3rd		-
	3.3.3	1	BBMCI workshop	6 Nov. 2019	Nagahama
	3.3.4	1	Final version of Proposal for Bootless Bay National Marine Sanctuary	22 Nov. 2019	Nagahama
				Mar. 2018	Kikuchi

List of Major Products in Output3 : June 2015 - December 2020

Activity	Action	Number	Name of deliverable	Date of delivery	Expert in charge
		2	Draft call for expression of interests to be National Protected Area Round Table member	Oct. 2018	Kikuchi
	3.4.3	1	Letter for State Solicitor on the conservation easement	15 May. 2019	Nagahama
		2	Draft letter for Minister of Department of Land and Physical Planning for leased land	16 May. 2019	Nagahama
		3	Draft Policy submission for National Executive Council on Bootless Bay National Marine Sanctuar	May. 2019	Kikuchi
		4	Information paper to MD and Minister for circulation in National Executive Council	Sep. 2019	Kikuchi
3.5	3.5.1	1	Draft ToR for Bootless Bay National Marine Sanctuary Management Committee	18 Nov. 2019	Nagahama
		2	ToR for Bootless Bay National Marine Sanctuary Management Committee	5 Feb. 2020	Nagahama
		3	Bootless Bay National Marine Sanctuary Management Committee member list	5 Feb. 2020	Nagahama
		4	Note of Bootless Bay National Marine Sanctuary Management Committee Special Meeting	5 Aug. 2020	Nagahama
	3.5.2	1	Draft ToR for Bootless Bay National Marine Sanctuary Management Plan	15 Nov. 2019	Nagahama
		2	Final draft of ToR for Bootless Bay National Marine Sanctuary Management Plan	21 Jan. 2020	Nagahama
		3	Bootless Bay National Marine Sanctuary Management Plan	15 Jul. 2020	Nagahama
3.6	3.6.1	1	Acceptance letter from Hiri LLG Manager for signboard setting	29 Mar. 2017	Nagahama
		2	T-shirt for Tubusereia clean-up	12 Apr. 2017	Nagahama
		3	Three signboards at Tubuseria village, Hiri LLG	13 Apr. 2017	Nagahama
		4	Brochure for Output 3	17 May. 2017	Nagahama
		5	BBMCI logo	17 Jun. 2017	Nagahama
		6	BBMCI Banner	17 Sep. 2017	Nagahama
		7	Signboard for UPNG land at Tahira and Motupore	22 Sep. 2017	Nagahama
		8	A signboard at Tahira Farm	22 Nov. 2017	Nagahama
		9	Nine signboard for mangrove protection	16 May 2018	Nagahama
		10	200 copies of mangrove identification guide	25 Jun 2018	Nagahama
		11	Two kayaks for mangrove patrol	30 Jul. 2018	Nagahama
		12	Draft of Mangrove identification guide	25 May 2019	Nagahama
		13	Designs of awareness materials	30 Aug 2019	Nagahama
		14	Public awareness activity on MPA in Gereka village	10 Oct 2019	Nagahama
		15	Public awareness activity on MPA in Dogura	15 Oct 2019	Nagahama
		16	Public awareness activity on MPA in Joyce Bay	16 Oct 2019	Nagahama
		17	Signboard of MPA promotion funded by CEPA	15 Dec 2019	Nagahama
		18	Contract for marine facility construction	17 Dec 2019	Mochizuki
		19	Amendment of the contract for marine facility construction	20 Jan 2020	Asano
		20	500 copies of bird guide	Jan. 2020	Nagahama
		21	Report on public awareness activities	2 Feb. 2020	Nagahama
		22	Marine facility installation	6 Feb. 2020	Asano
		23	Experiences from Marine Component of CEPA-JICA Biodiversity Project No. 1 and No. 2	20 May 2020	Nagahama
		24	Program on World Oceans and Coral Triangle Day Celebration	20 May 2020	Nagahama
		25	Note on mangrove planting for World Oceans and Coral Triangle Day Celebration	11 Jun. 2020	Nagahama
		26	Report on World Oceans and Coral Triangle Day Celebration	26 Jun. 2020	Nagahama

List of Major Products in Output 4 : June 2015 - December 2020

Activity	Action	Number	Name of deliverable	Date of delivery	Expert in charge	Memo
4.1	4.1.3	1	Strategy for public relations/awareness and Action Plan (Ver.1)	Dec-15	Asano	
	4.1.4	2	Strategy for public relations/awareness and Action Plan (Revised version)	Jul-18	Ochi	
4.2	422	3	Strategy for public relations/awareness and Action Plan (Final report)	Nov-20	Ochi Ochi	No otto charant
4.2	4.2.3	1 2	Project GIS database Project GIS database list	- Nov-20	Ochi	No attachment
		3	Project Ors database list Project Map list	-	Ochi	
	4.2.4	3	GIS data related to biodiversity (including free data)	-	Ochi	No attachment
	4.2.5	1	Maps (Provisional project boundary map, Protected area map)	Oct-15	Ochi	
	4.2.6	1	GIS data (Land use map, VNP facility, etc.)	-	Ochi	No attachment
	11210	2	Maps (Terrestrial areas maps)	Apr-16	Ochi	
		3	Maps (Land use map)	Apr-16	Ochi	
		4	Maps (VNP maps)	Jul-16	Ochi	
		5	Maps (VNP facility management maps)	Apr-16	Ochi	
		6	Maps (VNP management zone maps (draft))	Jul-17	Ochi	
		7	Maps (VNP facility management maps (camera trap updated))	May-18	Ochi	
	4.2.7	1	GIS data (Mangrove, Reef, etc.)	-	Ochi	No attachment
		2	Maps (Marine / Coastal areas maps)	Apr-16	Ochi	
		3	Maps (Mangrove maps)	Apr-16	Ochi	
		4	Maps (Environment of Marine / Coastal areas map)	Oct-16	Ochi	
		5	Maps (Targeted MPA maps)	Jun-17	Ochi	
		6 7	Maps (Targeted MPA maps updated) Maps (Proposed Marine Sanctuary)	Jan-19 Mar 10	Ochi	
		8	Maps (Proposed Marine Sanctuary) Maps (National Marine Sanctuary zoning map)	Mar-19 Nov-19	Ochi Ochi	
	4.2.8	8	Introduction of Satellite Imagery -WorldView-2	Apr-16	Ochi	
	7.2.0	2	Updating facility database	Jul-16	Imai	
		3	Introductory ENVI manual	Apr-17	Ochi	
		4	Manual on getting location information	Feb-18	Ochi	
	l	5	Update of VNP facility database	Oct-18	Ochi	
	1	6	GIS Data Management	Feb-20	Ochi	
4.3	4.3.1	1	JICA project HP	-	Ochi	refer to [4.3.1_HP records] sheet
	4.3.2	1	Project Facebook page	-	Ochi	refer to [4.3.2_fb records] sheet
		2	Facebook monitoring report	-	Mochizuki	
	4.3.3	1	Project brochures (ver. 1 - 6)	-	Ochi	
		2	Brochure for Output 3	May-17	Ochi	
	4.3.4	1	Newsletter (vol. 1 - 9)	-	Ochi	
		2	Fact sheet (vol. 1 -2)	-	Ochi	
		3	Project Atlas (1st edition)	Oct-18	Ochi	
		4 5	Project banner BBMCI banner	- San 17	Ochi Ochi	
		6	Provisional Project Boundary Map poster	Sep-17 Aug-15	Ochi	
		7	Terrestrial Ecosystem Areas Map poster	Apr-16	Ochi	
		8	Marine / Coastal Ecosystem Areas Map poster	Apr-16	Ochi	
		9	Mangrove Map poster	Apr-16	Ochi	
		10	Project poster included land use map	Apr-16	Ochi	
		11	Project poster focused on Output 3	Apr-17	Ochi	
		12	Project signboard	Aug-15	Ochi	
		13	Signboard for VNP	Nov-16	Ochi	
		14	Bird Watching signboard in VNP	Nov-16	Ochi	
		15	Megapod explanation signboard for VNP	Nov-16	Ochi	
		16	Bird Watching signboard at PAU	Nov-16	Ochi	
		17	Signboard of MPA for Tahira UPNG land	Sep-17	Ochi	
		18	Signboard for Tahira and Motupore Island	Nov-17	Ochi	
		19	Signboard for mangrove protection	May-18 May 16	Ochi	
		20 21	Logo for VNP Logo for BBMCI	May-16 Jun-17	Ochi Ochi	
		21	Sticker	Jun-1/	Ochi	
		22	Guide Map of Varirata National Park (1st edition - 2nd edition)	Aug-16	Ochi	
			Other information sharing materials in accordance with the strategy (T-shirt, polo shirt, vest			
		24	etc.)	-	Ochi	No attachment
	l	25	Flag banner of Information Center Complex at VNF	Oct-18	Ochi	
	l	26	Banner of VNP (2 types)	Oct-18	Ochi	
		27	VNP stamp (2 types)	Feb-19	Ochi	
		28	Signboard for VNP new entrance fees	Mar-19	Ochi	
		29	Field guide brochure of Mangrove at Bootless Bay	Jun-19	Ochi	
		30	Field guide brochure of Bird at Bootless Bay	Jun-19	Ochi	
		31	Posters of biodiversity (7 types)	Jul-19	Ochi	
		32	Awareness materials for Bootless Bay National Marine Sanctuary	Aug-19	Nagahama	
		33	VNP promotion video	Jun-20	Ochi	
		34	Two signboards at Tahira marine station	Jun-20	Nagahama	
		1	Promotion in seminars, workshops, and other events	-	Ochi	refer to [4.3.5_Promotion records] sheet
	4.3.5	1				records sheet
	4.3.6	1	Project webpage in CEPA home page	-	Ochi	No attachment
4.4		1 1 1 2	Project webpage in CEPA home page Kickoff Seminar Report Project Final Seminar Report	- Jul-15 Dec-20	Ochi Ochi Mochizuki	

Article list posted on project webpage in JICA homepage (4.3.1 HP records)

No.	Date	Title
1	27 Aug 15	The 1st Joint Coordinating Committee (JCC) Meeting took place on the 3rd of July 2015
2	27 Aug 15	Kick-off Seminar / Workshop was held on 29th July 2015
3	Oct 15	Inception Workshop for Koiari on 22nd October 2015
4	Mar 16	MoU was signed for launching the "Bird Watching Project" on 19th February 2016
5	Nov 16	The marine Inception Workshop was held on 16th August 2016
6	Jan 17	Inaugural Ceremony of equipment for Output 3 was held on 24th October 2016
7	Mar 17	Implementation of training in Japan for PNG officials
8	Mar 17	More Information: Project Brochure ver. 3
9	Jan 18	The 3rd Joint Coordinating Committee (JCC) Meeting took place on the 28th of November 2017
10	Mar 18	More Information: CEPA-JICA Biodiversity Project Annual Report 2017
11	Mar 19	More Information: CEPA-JICA Biodiversity Project Annual Report 2018
12	Feb 20	More Information: CEPA-JICA Biodiversity Project Annual Report 2019

Term	Date / Title	A total of Like
Oct 2015 -	Posting: 8, Photo album: 5	314
Mar 2016	29 Jul 15: Kickoff Seminar/Workshop for CEPA-JICA Biodiversity Project	
	16 Oct 15: Project Designing Phase 27 Nov 15: Followup Workshop for Koiari	
	18 Dec 15: Official Donation of Project Vehicle to CEPA by JICA	
	23 Dec 15: resentation of Certificates to Key Partners by Koiari Local Level Government Office	
	19 Feb 16: Launching of Joing Bird Watching MoU	
	25 Feb 16: Workshop on Livelihood Development & Bird Watching in Koiari	
	25 Feb 16: Livelihood development for local Koiari communities	
	Inception Workshop for Koiari	
	Facility Assessment of Varirata National Park	
	First Kickoff Seminar Workshop for CEPA/JICA PROJECT	
	First Joint Coordinating Commitee (JCC) Meeting Followup workshop Koiari	
1 Apr 16 -	Posting: 44, Photo album: (included in time line)	449
30 Sep 16	6 Apr 16: Installation of distance piles by this team	
	21 Apr 16: Installation of distance piles at Varirata National Park	
	31 Mar 16 (22 Apr 16 post): Wooden foot bridge - recently maintained	
	7 Apr 16 (22 Apr 16 post): Tuna Bay with some critical mangrove forests	
	18 Apr 16 (25 Apr 16 post): Proposed birdwatching site -Bautama SDA land-Bootless Inlet 19 Apr 16 (25 Apr 16 post): Mangrove map of Bootless Bay	
	21 Apr 16 (25 Apr 16 post): Strengthening partnership through CEPA-JICA Project Novelty Polo Shirts	
	14 Apr 16 (25 Apr 16 post): Mapping of streams within VNP	
	14 Apr 16 (25 Apr 16 post): Confirming vegetation types at Ower's corner & surrounding areas	
	26 Apr 16 (27 Apr 16 post): Bootless Bay Mangrove Protection Alliance	
	21 Apr 16 (27 Apr 16 post): Encourage Coastal Fisheries Management in Bootless Bay	
	28 Apr 16: PAU popular bird watching site	
	22 Apr 16 (28 Apr 16 post): World View 2 Satellite Imagery Presentation	
	29 Apr 16: Historical meeting for Do'e Forest Protection	
	22 Sep 15 (4 May 16): Camera traps assist monitoring and management of Varirata National Park 4 May 16: Drone technology significant for resource planning & management	
	4 May 16: Tree-house - Pride and Identify of local Koiari People	
	4 May 16: Development Planning Meeting with Koiari LLG	
	5 May 16: Noble meet with Central Provincial Administration	
	5 May 16: Chief Advisor handing over Novelty Polo Shirt to Deputy PA of Central Province	
	5 May 16: Concerns of CEPA Managing Director on Bootless Bay	
	6 May 16: PNG NFA Supports Protection of Bootless Bay	
	10 May 16: Signages Rehabilitation Work at Varirata National Park 19 May 16: VNP Landowner Workshop on Livelihood development	
	20 May 16: Consultation on VNP Biodiversity Study	
	23 May 16: Unexpected expedition to Do'e village - Koiari	
	23 May 16: Unspoilt Limestone cave of Do'e	
	3 June 16: Introduction and progress report of the Project	
	19 May 16 (8 June 16 post): Another successful community workshop held in Koiari for VNP landowners 29 June 16: Recent event of the Project	
	18 July 16: Japanese Expert joins Local Team	
	13 July 16: Development of Varirata National Park Guide Maps	
	1 Aug 16: Two Marine Experts join Project Team 1 Aug 16: Introductory marine meeting with CPC in Port Moresby	
	11 Aug 16: A Way Forward for Community Engagement in Koiari for Livelihood Development	
	9 Aug 16: Coalition partners to protect Bootless Bayx	
	16 Aug 16: Marine Inception Workshop brought together key stakeholders	
	2 Sep 16: Bird Experts keen to visit VNP	
	6 Sep 16: Varirata attracts birdwatchers from all over the world15 Sep 16: CEPA celebrates Pre-Independence with its staff and Project Partners	
	22 Sep 16: Basic Information of Varirata National Park	
	22 Sep 16: Simple Management Rules of Varirata National Park	
	30 Sep 16: CEPA Webpage is online	
	30 Sep 16: Varirata Park Ranger	

osted on project facebook page (4.3.2 fb records) Posting: 39, Photo album: (included in time line	765
11 Oct 16: Ridge to Reef Programme Launced	100
18 Oct 16: Mr Togo Takamura joining the Japanese Expert Team	
25 Oct 16: Inauguration ceremony for the launch of the new boat and engine	
25 Oct 16: The annual Joint Coordinating Commitee (JCC) Meeting	
4 Nov 16: USAID undertakes threat analysis on PNG's biodiversity	
7 Nov 16: New Signboards were installed at Varirata National Park	
9 Nov 16: Be responsible for your actions!!!	
10 Nov 16: The Varirata National Park is home to many exotic animals	
18 Nov 16: WWII historic site: Namanatabu	
23 Nov 16: Security guards from the local communities of Koiari Hired	
20 Nov 16, A David Marine Diedivarsity Surray was undertaken in Deetless Day	
29 Nov 16: A Rapid Marine Biodiversity Survey was undertaken in Bootless Bay 8 Dec 16: Bird Watching Billboard Installed	
27 Jan 17: A successful discussion with Bmobile for the ISP installation	
1 Feb 17: The 2nd marine workshop for Bootless Bay Marine Conservation Initiative (BBMCI)	
7 Feb 17: Koiari is the land of unexpected	
3 Feb 17 (7 Feb 17 post): The local communities of Koiari participated in the community consultative workshop	
10 Feb 17: The PNG Tourism Promotion Authority has developed several options to promote tourism in PNG	
16 Feb 17: The bird watching initiative wasu further strengthened	
23 Feb 17: The Nasfund team and CEPA-JICA team discussed the planning of the retreat walk at VNP	
20 Feb 17 (23 Feb 17 post): CEPA discussed the donor and development partners' contributions towards the implementation	
of	
the CEPA's conservation and environmental mandate	
24 Feb 17 (28 Feb 17 post): CEPA-JICA Project hosted the Nasfund scouting team to visit facilities and tracks at VNP	
28 Feb 17: CEPA staff took a day off to clean the tracks at the Variarta National Park	
1 Mar 17 (11 Mar 17 post): A technical team from the U.S. government visited VNP	
Feb 17 (11 Mar 17 post): CEPA-JICA project staff met with the Nature Park Manager	
2-3 Mar 17 (11 Mar 17 post): Endemic and Flagship Species Workshop	
10-12 Mar 17 (11 Mar 17 post): Technical review of the FSC national standards by PNG Forest Certification Inc	
4 Mar 17 (14 Mar 17 post): Exhibition of Endemic and Flagship Species at the World Wildlife Day	
14 Mar 17: The green tree snail:an endemic species only found in Manus province	
15 Mar 17 (16 Mar 17 post): The draft design and documentation of the new information center or building at VNP	
15-16 Mar 17: The marine Program on Works for Protected Areas workshop in progress	
16 Mar 17: Meeting with Planning & Policy Advisor of CPG	
21 Mar 17: The 5th International Day of Forests hosted by PNGFA and Koiari LLG	
22 Mar 17 (23 Mar 17 post): An audition for Koiari traditional dance	
24 Mar 17: Unique animals found in the Varirata National Park	
24 Mar 17: The Monitor Lizards of Varirata	
24 Mar 17: Rusa Deer of Varirata	
29 Mar 17 (30 Mar 17 post): Dr Allen Alison of the Indo-Pacific Conservation Alliance based in Haiwaii signed a contract	
with	
the CEPA-JICA Project for the biodiversity survey of the VNP	
29 Mar 17 (30 Mar 17 post): Sogeri is incredible during high rainy seasons	
30 Mar 17: The first marine meeting for CEPA and its conservation partners	

Article list p	osted on project facebook page (4.3.2 fb records)	
-	Posting: 40, Photo album: (included in time line	1,192
30 Sep 17	11 Apr 17: Announcement of a first clean-up campaign at Tubusereia village	,
1	12 Apr 17: A clean-up campaign at Tubusereia village	
	12 Apr 17 (13 Apr 17 post): The field training for local field assistants at VNP	
	20 Apr 17 (25 Apr 17 post): The Inaugural Launch for the works of VNP	
	22 May 17: Announcement of inviting visitors and guests to VNP	
	22 May 17: Announcement of reproduction of factsheets and updates for VNP and the proposed marine protected area at	
	Bootless Bay and Tuna bay areas	
	25 May 17 (29 May 17 post): Trees felled at the main picnic area of VNP for the maintenance and renovation of the car parks	
	and the existing information center	
	5 Jun 17 (8 Jun 17 post) : The World Environment Day event at VNP	
	9 Jun 17: The CTI Day at Taikone	
	early Jun 2017 (23 Jun 17 post): The renovation work of the car park	
	carry sun 2017 (25 sun 17 post). The renovation work of the car park	
	20 Jun 2017 (23 Jun 17 post): Checking camera traps on monthly routine at VNP	
	2 and 6 Jun 17 (23 Jun 17 post): Meeting for the trial of the training courses	
	16 Jun 17 (23 Jun 17 post): Discussion of the construction of the bird shelter	
	22 Jun 17 (23 Jun 17 post): Introductory community meeting held at Pari village	
	29 Jun 17: The meeting with Rhodes PNG for the contract for the construction of the new Information Center (IC) at VNP	
	4 Jul 17: Rhodes PNG signed the contract for the construction of the new IC at VNP	
	5 Jul 17: Discussion of the preliminary drawings and designs of the new IC	
	13 Jul 17: Reconnaissance trip to identify the potential site for the setup of the fabricated building in VNP	
	21 Jul 17: Bootless Bay is a magnificent paradise for rich marine resources	
	25 Jul 17 (28 Jul 17 post): UPNG and CEPA signed MoU for mangrove protection	
	27 Jul 17 (28 Jul 17post): The construction of the first bird shelter at PAU commenced	
	28 Jul 17: The construction of the fabricated kitset building commenced at VNP	
	30 Jul 17: Improved drainage system at the IC complex of VNP	
	4 Aug 17: New bird watching shelter being constructed at the Koiari Park Campus of PAU	
	4 Aug 17: New ond watching sheler being constructed at the Robart Fark Campus of FRO	
	10 Aug 17: Hon John Pundari is retained as the Minister for Environment & Conservation/Climate Change	
	18 Aug 17 (21 Aug 17 post): Farewell of one of the Project national staff	
	22 Aug 17: The JICA Expert Team to the Project seeks Local Expert	
	23 Aug 17: Social mapping and socio-economic studies of VNP and its around areas	
	23 Aug 17: Cultural taboos, rituals and the ancestral beliefs will be illustrated on the totems and carvings	
	25 Aug 17: Welcome reception of Hon.John Pundari Minister at VNP	
	5 Sep 17: The new bird watching shelter completed	
	19 Sep 17: The fabricated kitset house for Rhodes PNG is almost completed	
	19 Sep 17: The renovation of the existing IC and the construction of the new IC	
	15 Sep 17 (19 Sep 17 post): The crafting of the 6 totems and 4 carvings was completed	
	19 Sep 17: Information Center complex designed	
	19 Sep 17: Undertaken ecological studies at VNP for the last 5 months	
	22 Sep 17: Side Event at 5th SPREP Meeting in Apia, Samoa	
	26 Sep 17: The trial terrestrial and marine biodiversity training courses	
	26 Sep 17: Bootless Bay was also suggested for nomination for Ramsar Site	

Article list posted on project facebook page (4.3.2 fb records)

	posted on project facebook page (4.3.2 fb records)	
	Posting: 27, Photo album: (included in time line	1,408
31 Mar 18	29 Sep 17 (4 Oct 17 post): CEPA-JICA Project relocation to new office space, a level downstairs within Bemobile Building	
	29 Sep 17 (5 Oct 17 post): A photograhic presentation of VNP by ecologist and natural history photographer Mr. Angus	
	Fraser 10 Oct 17: Several invasive and harmful plants and animals found within VNP	
	10 Oct 17: Several invasive and naminal plants and annual found within VNP	
	13 Oct 17 (16 Oct 17 post): Presentation of the preliminary results of social mapping, socio-economic baseline studies and	
	buffer areas of VNP by Dr. Rodney Kameata at the CEPA Hohola Office	
	24 Oct 17: Ecological field survey team based at VNP which is led by renowned scientist Dr Allen Allison of Indo-Pacific	
	Conservation Alliance and Bishop Museum based in Hawaii	
	24 Oct 17: Communty meeting for the wrap-up of the social mapping study at Depo, Sogeri Plateau by Dr. Rodney Kameata	
	25 Oct 17: CEPA-JICA Project was grateful for receiving international visitors from CSIRO and Indo- Pacific	
	Conservation Alliance	
	1 Nov 17: Main Billboard for the project in partnership with UPNG, Tahira Farm (Chapman family), CEPA and JICA for the	
	mangrove protection will be installed at Tahira Junction along the Magi Hiway	
	3 Nov 17: Inspection team of CEPA-JICA and the contractors: Rhodes PNG and Hahebou jointly inspected the construction	
	of	
	the new IC and renovation of existing IC and familiarisation visit for new architect for JICA, Mr. Sakano	
	7 Nov 17: Meeting with CPC,CEPA and JICA whereby CPC is keen to embrace partnership for the protection of Bootless	
	Bay at the Ela Beach office	
	8 Nov 17: University of Papua New Guinea (UPNG) is conducting a biodiversity management training course at UPNG's	
	main campus from 10-22 December and is supported by Mama Graun Conservation Trust Fund and Exxon Mobil partnership	
	8 Nov 17: An open announcement for individuals who are interested and keen to attain further knowledge on biodiversity and	
	community management courses offered by the University of Papua New Guinea from 10-22 December	
	10 Nov 17: Two US Peace Corps Volunteers who have been working with Dr Allen Allison's field survey team at Varirata	
	for almost 4 weeks will be leaving PNG and return to USA	
	22 Nov 17: The mid-term review of the CEPA-JICA Biodiversity Project undertaken by the JICA Monitoring Mission	
	12 Dec 17: CEPA-JICA Biodiversity Project has relocated to the new office at Savannah Heights	
	29 Jan 18: Welcome followers and friends on the Project facebook page	
	29 Jan 18: VNP new billboard installed at the junction of the Sogeri Road	
	29 Jan 18: The construction of the new IC is progressing	
	29 Jan 18: First meeting of Sustainable Environment Program of CEPA held in 2018 6 Feb 18: Local hand crafted baskets	
	o red 16. Local hand crafted baskets	
	27 Feb 18: Der Imae joined the Project Team	
	27 Feb 18: Recent development of the IC Complex	
	28 Feb 18 (2 Mar 18 post): The official delegation from the Ministry of Forestry & Research in Solomon Islands	
	2 Mar 18: Discussion to address the alarming rate of mangrove loss	
	2 Mar 18: JICA-SI Forestry delegation exposure tour of VNP	
	1 Mar 18 (2 Mar 18 post): The baseline data of the social mapping and socio-economic field surveys of VNP presented	
	26 Mar 18: Photographes of VNP	
1 Apr 18 -	Posting: 14, Photo album: 3 (included in time line	1,494
30 Sep 18	4 Apr 18: The Giant Bandicoot (Peroryctes broadbenti): a new record for VNP	,
	13 Åpr 18: Another MoU was signed between CPC of SDA Church and CEPA for the protection of mangroves and the	
	establishment of the model MPA	
	11 Apr 18 (13 Apr 18 post): Meeting of the CTI-NCC was held at CEPA to update the technical committee members	
	16 Apr 18: The unique corals of Bootless Bay found within the vicinity of Motupore Island	
	16 Apr 18: Introduction of the Natural Sciences and Herbarium of UPNG for coastal plants of Motupore Island	
	18 Apr 18: The training on how to use the drone at CEPA	
	18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP	
	18 Apr 18: The training on how to use the drone at CEPA23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP16 May 18: Introduction of bird species in VNP	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 	
	18 Apr 18: The training on how to use the drone at CEPA23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP16 May 18: Introduction of bird species in VNP	
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	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 17 May 18: A firm based in Lae has proposed options of recycling plastic wastes 	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 17 May 18: A firm based in Lae has proposed options of recycling plastic wastes 22 May 18: Most Chinese recycling companies are no longer importing plastic and other solid wastes 	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 17 May 18: A firm based in Lae has proposed options of recycling plastic wastes 	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 17 May 18: A firm based in Lae has proposed options of recycling plastic wastes 22 May 18: Most Chinese recycling companies are no longer importing plastic and other solid wastes 28 May 18: The new look of the new IC at VNP Project News Letter 	
	 18 Apr 18: The training on how to use the drone at CEPA 23 Apr 18: How the training program on wildlife handling including snakes has turned into a success story/VNP 16 May 18: Introduction of bird species in VNP 16 May 18: Spectacular waterfalls within VNP during wet season 17 May 18: PNG ranked top 10 as one of the vulnerable nations in terms of natural disasters by Japan's World Risk Report 17 May 18: The manufacturers and suppliers of plastic bags were warned by the Minister 17 May 18: A firm based in Lae has proposed options of recycling plastic wastes 22 May 18: Most Chinese recycling companies are no longer importing plastic and other solid wastes 28 May 18: The new look of the new IC at VNP 	

Article list posted on project facebook page (4.3.2 fb records)

	osted on project facebook page (4.3.2 fb records)	
18 -	Posting: 84, Photo album: (included in time line	
ar 19	16 Oct 18: Event announcement: Inaugural ceremony for the new Information Center Complex in VNP	
	19 Oct 18 (24 Oct 18 post): Biodiversity & Conservation Seminar	
	19 Oct 18 (24 Oct 18 post): Outcome of Biodiversity & Conservation Seminar	
	19 Oct 18 (24 Oct 18 post): Study Tour of ICC	NCDC
	19 Oct 18 (24 Oct 18 post): Local people of Koiari in the Study Tour of ICC	
	19 Oct 18 (25 Oct 18 post): Study Tour of JCC - ICC -	
	18 Oct 18 (24 Oct 18 post): Sustainable Environment Program of CEPA inside the new IC at VNP	
	25 Oct 18: The grand opening of the new bird of paradise exhibit or aviaries (1)	
	25 Oct 18: The grand opening of the new bird of paradise exhibit or aviaries (2)	
	25 Oct 18: The grand opening of the new bird of paradise exhibit or aviaries (3)	
	30 Oct 18: Introduction of CEPA-JICA Projet facebook page	
	30 Oct 18: Interior of new information center at VNP	
	30 Oct 18: Announcement of the national coastal clean-up at Ela Beach	
	30 Oct 18: Varirata species brochures published	
	30 Oct 18: Jossinia desmantha: one of the endemic plants of Port Moresby region	
	31 Oct 18: News article of the study tour of VNP	
	31 Oct 18: Cepa-Jica Biodiversity Project 2015-2020 updated their address	
	2 Nov 18: JICA supports clean-up of Era Kone in Preparation for the Asia Pacific Economic Cooperation (APEC) Forum	
	2 Nov 18: Interior of new information center at Varirata National Park	
	2 Nov 18 (5 Nov 18 post): The installation of totems within the Varirata National Park	
	5 Nov 18: APEC is coming soon	
	31 Oct 18 (5 Nov 18 post): Meeting with the Deputy District Administrator of Moresby South and LLG Manager of NCDC	
	at	
	City Hall	
	6 Nov 18: New camera traps installed in VNP	
	6 Nov 18: Cleen-up at VNP	
	6 Nov 18: Community education and awareness to all park visitors	
	6 Nov 18: Miconia crenata: foreign shrub introduced into the Park	
	6 Nov 18: There're least 3 species of wallabies in VNP	
	6 Nov 18: Dusky Pademelon or Common Bush Wallaby (Thylogale brunii) differs from all New Guinea species	
	6 Nov 18: Which of These Primates Know More About Climate Change	
	8 Nov 18: A Grade 11 Port Moresby International School student, Imelda Solomon won photography competition of VNP	
	8 Nov 18: Central Provincial Government (CPG) is the center piece for most of our activities	
	10 Nov 18 (12 Nov 18 post): APEC coastal clean-up organized by JICA, CEPA and UNDP at Ela Beach	
	12 Nov 18: What are Plastics?	
	14 Nov 18: News article of campaign to ban plastics gaining momentum	
	14 Nov 18: PNG is the world's center for biodiversity	
	14 Nov 18: NCDC webpage recently launched	
	15 Nov 18: PR of VNP	
	30 Nov 18 (5 Dec 18 post): Ranger training workshop jointly hosted by CEPA and UNDP at Sogeri	
	5 Dec 18: Several more camera traps installed at VNP	
	13 Dec 18: Meeting with the Governor of Central Province Hon. Robert Agarobe	
	13 Dec 18: Meeting with the Governor of Central Province Hon. Robert Agarobe	

Article list p	osted on project facebook page (4.3.2 fb records)	
	14 Dec 18: Honourable Governor Robert Agarobe	
	14 Dec 18: Joint field visit to Mirigeda undertaken by the CEPA-JICA and the Governor's Office of Central Province	
	6 Dec 18 (14 Dec 18 post): Cultural, tourism & community livelihood support: CEPA-JICA team undertook a reconnaissance	
	trip for the Cultural Expo Tour to Kwalimurubu village, Rigo District of Central province	
	14 Dec 18: drafting of the by-laws for the National and Regional Protected Area Roundtables is under discussion	
	19 Dec 18: Happy merry Christmas & Prosperous New year 2019	
	16 Jan 19: The Project started the year off well	
	17 Jan 19: Central Provincial Government supports protected area management in Bootless Bay	
	21 Jan 19: Welcoming 2019 CEPA-JICA partnership with sushi	
	22 Jan 19: CPG: very important stakeholder in the establishment of the proposed MPA	
	22 Jan 19: The MoU between CEPA and UPNG was strengthened	
	23 Jan 19: Landowners of Tavolo and Klampun Wildlife Management Areas had the opportunity to visit VNP in June 2018	
	24 Jan 19: Discussion of the new entrance fees for VNP	
	24 Jan 19: Consulting key stakeholders at Koiari for the establishment of a framework for park management committee	
	25 Jan 19: Meeting with the Governor of Central Province	
	25 Jan 19: 7th BBMCI meeting	
	1 Feb 19: Meeting with the Chapman family	
	20 Feb 19: Publication of the latest newsletter (Vol.7)	
	13 Feb 19 (20 Feb 19 post): Meeting with PAU to discuss the new GEF 5 research proposal for VNP 19 Feb 19 (20 Feb 19 post): The trip to PAU with the PNG Tourism Promotion Authority for the planning of the	
	improvement	
	of the bird watching shelter	
	20 Feb 19: CEPA-JICA Project Vest for promoting our environment protection work in Varirata National Park and Bootless	
	Bay in Central Province	
	22 Feb 19: Local initiative can be supported and promoted	
	25 Feb 19: A field reconnaissance trip to establish dialogue and network with the Boera Women's Group	
	27 Feb 19: Partnership with National Agriculture Quarantine & Inspection Authority has been strengthened	
	28 Feb 19: Futher consultation with Central Provincial Government for the review of the draft MOU and plan of action for	
	the proposed MPA	
	1 Mar 19: The artistic makeup of the real creatures made from solid waste materials	
	1 Mar 19: Preparation for World Wildlife Day	
	1 Mar 19: Many species including the ecosystems are threatened	
	5 Mar 19 (8 Mar 19 post): Meeting with the Finance and HR of CEPA on the recruitment and enumeration of new park	
	rangers for VNP	
	8 Mar 19: One week meeting for strengthening effectiveness of protected areas with the development partners working	
	in partnership with CEPA 11 Mar 19: Official handover of the temporary accommodation at VNP was signed	
	11 War 19. Official handovel of the temporary accommodation at VIVI was signed	
	12 Mar 19: The commitment from the MD for some financial assistance for the management of VNP	
	12 Mar 19: Work to establish a workable financial management system for the revenue generation and management of the	
	monies for VNP	
	12 Mar 19: Kae Association, a newly established community group, was registered by the PNG Investment Promotion	
	Authority	
	14 Mar 19 (15 Mar 19 post): The initial basic book keeping training was successfully conducted at VNP for the local park	
	rangers and the newly established Kae Association of Koairi	
	15 Mar 19: Project is recruiting few local park rangers	
	15 Mar 19: JCC and inauguration launching of the new Information Center of VNP will be held in the coming weeks	
	19 Mar 19: The gazettal notice of VNP new entrance fees was issued	
	21 Mar 19: JICA and CEPA signed the handover of the new ICC	
	22 Mar 19: Local park rangers for VNP signed their short contracts	
	22 Mar 19: Project Annual Report 2018 was issued	
	26 Mar 19 (28 Mar 19 post): JCC meeting was held	
	28 Mar 19 (20 Mar 19 post). See meeting was need 28 Mar 19: Information Center Complex was officially opened at VNP	
	28 Mar 19: Inaugural Ceremony for the Information Center Complex in VNP	
	29 Mar 19: Info of CEPA-IICA Project team	

Article list posted on project facebook page (4.3.2 fb records)

	sted on project facebook page (4.3.2 fb records)
	Posting: 65, Photo album: (included in time line
	2 Apr 19: Introduction of new ICC
	2 Apr 19: Introduction of birds of VNP
	28 Mar 19 (2 Apr 19 post): News of the inauguration opening ceremony of the new ICC at VNP
	3 Apr 19: Introduction of Giant bandicoot
	5 Apr 19: Introduction of Rusa Deer 5 Apr 19: Bootless Bay Proposed National Marine Sanctuary - JICA is supporting CEPA to establish a first marine protected
	area in PNG
	10 Apr 19: The Deputy Provincial Administrator CPG met with CEPA and the JICA team to finalise the MOU for the
	protection of mangroves and marine systems
	11 Apr 19 (12 Apr 19 post): The exposure tour undertaken by Kae Association with their cousins at Boera village
	12 Apr 19: Introduction of VNP
	17 Apr 19: The process of reviewing the PNG National Ocean Policy
	26 Apr 19: Official launching of the data portal and Data Sharing Policy
	29 Apr 19: Brief History of VNP
	30 Apr 19: Koiari Tree house
	30 Apr 19: Community park rangers of VNP
	30 Apr 19: Artistic Impression of new PNG National Mining Museum
	8 May 19: Local people of Koiari living within the vicinity of the VNP are building models of Koiari Tree house
	8 May 19: The World Heritage team from the Department of Environment from Canberra was having discussions with
	CEPA/JICA and the UPNG
	20 May 19: News of VNP: an iconic place for many nature lovers
	20 May 19: One of our Kokoda Initiative colleague going finish 20 May 19: Our gratitude and appreciation for Dr Hiroshi Imae, the biodiversity management expert
	20 May 19: Our gratitude and appreciation for Dr Hirosni Imae, the biodiversity management expert
	21 May 19: Mirigeda land belongs to Central Provincial Government is destined for environmental protection
	21 May 19: Bootless Bay has 24 species of true mangroves
	21 May 19: Community park rangers of VNP were being trained to handle camera traps
	20 May 19 (23 May 19 post): Passing of Professor Peter Hitchcock
	24 May 19: CEPA is finalising the National Biodiversity Strategy and Action Plan for PNG 2018-2023
	23 May 19 (24 May 19 post): Tri-partnership between CEPA, PAU and Koiari LLG for the bird watching project 24 May 19: Announcement of the ICC at VNP
	4 Jun 19 (6 Jun 19 post): Mangroves was replanted at Mirigeda during the pre-World Environment Day
	4 Jun 19 (6 Jun 19 post): The local Motuan people of Gwaru Memase were overwhelmed with the replanting of mangroves
	in their area
ŀ	4 Jun 19 (6 Jun 19 post): Participattion of planting of mangroves
	4 Jun 19 (6 Jun 19 post): Mirigeda declared as mangrove protection zone by planting mangroves
	5 Jun 19: The Environment Day at the Adventure Park
	5 Jun 19 (6 Jun 19 post): The Champions of environmental protection and climate change joined hands to celebrate World
	Environment Day
	14 Jun 19: VNP has also celebrated its 45 years anniversary
	19 Jun 19: Social mapping and socio-economic studies were being undertaken in Bootless Bay
	27 Jun 19: Pacific Adventist University student interns were engaged with the CEPA-JICA Project
	28 Jun 19: One of the experts of PNG birds gave his perspective of bird watching potential for tourism in PNG during his presentation at CEPA
	28 Jun 19: PNGTPA is currently collaborating with CEPA to identify potential sites for adventure tourism
	25 Jun 19 (28 Jun 19 post): The Project team met with the State Solicitor's Office for legal guidance in relations to the
	proposed Bootless Bay marine protected area
	1 Jul 19: The Dean of Science and Technology School briefly caught up with his 4th Year students doing their practicum with
1	the CEPA-JICA Project

	osted on project facebook page (4.3.2 fb records) 6 Jul 19: Conservation contributes to economic and business opportunities for local people	
	6 Jul 19: JICA through partnership with CEPA was mandated to assist our local communities in Bootless Bay to protect their	
	mangroves, seagrass, salt marshes and marine life	
	6 Jul 19: Mangrove conservation in Bootless Bay	
	6 Jul 19: CEPA-JICA is supporting women in mangrove protection in Bootless Bay	
	6 Jul 19: Final year PAU students made a presentation on mangrove protection	
	6 Jul 19: Solid wastes and plastic dumping by local people and settlers living at Gereka	
	9 Jul 19: Images from our camera traps in VNP	
	16 Jul 19 (18 Jul19): CEPA and NCDC came together to find solutions for the Tuna Bay to Taurama by-pass for the road development	
	18 Jul 19: The meeting with the Vice Chancellor of UPNG	
	18 Jul 19: The Final Year students of PAU on internship have gone through their third week of practicum25 Jul 19: Piku is protected through an alliance of PIKU BIODIVERSITY NETWORK INC and the local communities with	
	support from ExxonMobil	
	8 Aug 19 (9 Aug 19aa): Successful meeting with the Minister for Environment & Conservation and Climate Change	
	9 Aug 19 : Ceremony of MoU signed by The Central Provincial Government and CEPA	
	22 Aug 19: Director of CEPA is currently in USA at the New York PNG UN Mission conference center	
	2 Sep 19 (4 Sep 19 post): BBMCI members met to discuss the establishment of the BBNMS-PAWG and to develop the proposal for the declaration of the BBNMS.	
	4 Sep 19: CEPA confirmed 24 species of mangroves present within Bootless Bay	
	5 Sep 19: Poster of 24 mangrove species of Bootless Bay	
	5 Sep 19: VNP has at least 5 species of Bird of Paradise from 31 species found in PNG	
	24 Sep 19: JICA arranged the recent Ramsar trip to the Lake Kutubu from 18 - 21 Sep 2019	
	24 Sep 19: Lake Kutubu lies within the Kikori River Catchment	
	24 Sep 19: The natural riches of Lake Kutubu is valueless	
	24 Sep 19: The local landowners of the Libano Hose and Arisai WMAs walked for 3 days from Mt Bosavi to meet with CEPA team at the 2019 Kutubu Festival	
	24 Sep 19: 12 endemic fish of Lake Kutubu are native and only present in Lake Kutubu	
	24 Sep 19: Tubo Lodge was established by the local community	
	24 Sep 19: Theo Lodge was established by the rocal community 24 Sep 19: One more wonders of Tubo Lodge in Lake Kutubu is the climb from the waterfront to the lodge with over 260	
	steps	
Oct 19 -	Posting: 32, Photo album: (included in time line	94(
1 Mar 20	9 Oct 19: Community awareness on Bootless Bay MPA	
	15 Oct 19: Madang Provincial Government is ready to host the regional hub for the PA	
	16 Oct 19 (17 Oct 19 post): The inaugural Park Management Committee for VNP was established	
	17 Oct 19: VNP introduces the new park rangers with their uniforms	
	9-16 Oct 19 (17 Oct 19 post): CEPA has undertaken the education and community awareness on environmental and	
	biodiversity values of Bootless Bay	
	17 Oct 19: Varirata National Park will turn 46 years old on Friday 18 October 2019	
	24 Oct 19: Newly constructed Koiari Tree house will be opened	
	28 Oct 19: Announcement of first tour packages for VNP	
	26 Oct 19 (28 Oct 19 post): A group of Gerehu Resurrection Lutheran students visited the VNP	
	8 Nov 19: Announcement of VNP Tour experiences	
	9 Nov 19 (11 Nov 19 post): Introduction to the Varirata National Park Tour	
	9 Nov 19 (12 Nov 19 post): VNP Tour - Trekking	
	9 Nov 19 (12 Nov 19 post): Koiari's Tree House	
	9 Nov 19 (13 Nov 19 post): VNP's New Information Center Complex	
	9 Nov 19 (13 Nov 19 post): Promoting Local Koiari buffet's at the VNP	
	18 Nov 19: Cut flower business and markets in Central Province and NCD	
	9 Nov 19 (5 Dec 19 post): 'Boubou', a village level church thanksgiving event	
	9 Oct (5 Dec 19 post): Community awareness on Bootless Bay MPA	
	5 Dec 19: Bootless Bay is a home to at least 24 species of mangroves 29 Jan 20: Project News Letter vol. 7	
	127 Juli 20. I TOTOL INGWS LEHET VOL /	
	29 Jan 20: Project News Letter vol. 8	
	29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9	
	29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019	
	29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 6 Feb 20 (13 Feb 20 post): The 3rd VNP Management Committee held 	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 6 Feb 20 (13 Feb 20 post): The 3rd VNP Management Committee held 15 Feb 20: Fare-welling John-san! 	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 6 Feb 20 (13 Feb 20 post): The 3rd VNP Management Committee held 15 Feb 20: Fare-welling John-san! 19 Feb 20: The establishment of the Bootless Bay Marine Station at the Tahira UPNG Marine Centre 	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 6 Feb 20 (13 Feb 20 post): The 3rd VNP Management Committee held 15 Feb 20: Fare-welling John-san! 19 Feb 20: The establishment of the Bootless Bay Marine Station at the Tahira UPNG Marine Centre 19 Feb 20: Announcement of Project Final Seminar to be held on 25th to 26 to March 	
	 29 Jan 20: Project News Letter vol. 8 29 Jan 20: Project News Letter vol. 9 6 Feb 20: Project Annual Report 2019 5 Feb 20 (11 Feb 20 post): the 9th BBMCI meeting / 1st BBNMS-WG meeting held 7 Feb 20 (13 Feb 20 post): The preliminary NPART (Interim) meeting convened 6 Feb 20 (13 Feb 20 post): The 3rd VNP Management Committee held 15 Feb 20: Fare-welling John-san! 19 Feb 20: The establishment of the Bootless Bay Marine Station at the Tahira UPNG Marine Centre 	

Article list posted on project facebook page (4.3.2 fb records)

	osted on project facebook page (4.3.2 fb records)	
1 Apr 20 -	Posting: 30, Photo album: (included in time line	1,088
30 Sep 20	18 Apr 20: Announcement about suspention of One Day Cultural Tour to VNP	
	1 May 20: Introduction to related You Tube videos: Varirata National Park on the verge of becoming a major attraction	
	1 May 20: Introduction to related You Tube videos: VARIRATA NATIONAL PARK, PORT MORESBY PAPUA NEW	
	GUINEA	
	1 May 20: Introduction to related You Tube videos: Pace to Visit When in Port Moresby – Varirata National Park, Papua	
	New Guinea	
	1 May 20: Introduction to related You Tube videos: PAPUA NEW GUINEW -VARIRATA NATIONAL PARK TOUR BY	
	T N SURESH KUMAR	
	1 May 20: Introduction to related You Tube videos: Varirata Lookout, Port Moresby, Papua New Guinea	
	1 May 20: Introduction to related You Tube videos: Taste of PNG – Potato & Kaukau Prawn Cake – Episode 3	
	1 May 20: Introduction to related You Tube videos: Raggiana Bird of Paradise (Paradisaea raggiana)	
	1 May 20: Introduction to related You Tube videos: BACKPACKING PAPUA NEW GUINEA Milne Bay 2/12	
	21 May 20: Announcement about "One Day Cultural Tour Package" on the Saturday 20th June, 2020	
	25 May 20: Mangrove protection billboards have installed at Bautama, Dogura and Gereka sites	
	21 May 20 (2 June 20 post): The official opening and the handover of the VNP Toll Gate's new Guard House funded by our	
	project partner CEPA-UNDP (GEF5)	
	2 June 20: The Launch of the 2020 World Environment Day	
	2 June 20: The project team are assisting the BLRA to facilitate the purchasing of mangrove seedlings	
	3 June 20: Announcement of Varirata One Day Cultural Tour	
	12 June 20: Promo video for VNP is undergoing final touches	
	20 June 20: Preparation for the upcoming One Day Varirata Cultural Tour	
	20 June 20 (23 June 20 post): One Day Varirata Cultural Tour	
	24 June 20: EMTV covered One Day Varirata Cultural Tour	
	20 June 20 (24 June 20 post): Introducing One Day Varirata Cultural Tour	
	24 June 20: Cultural Tour - Tree House!	
	25 June 20: A short highlight video of the Varirata Cultural Tour led by the PNG Conservation and Environment Protection	
	Authority	
	26 June 20: First promo video for the VNP	
	20 August 20: CEPA signed a first of its kind "Conservation Easement" with CPC for the Conservation of Mangroves and	
	Marine Ecosystem estuary Protection in Bootless Bay	
	25 August 20: The Bautama CPC land for the SDA church is a legally binded marine protected area	
	7 September 20 (18 September 20 post): Training on "Adaptive Management of Protected Areas in PNG"	
	18 September 20: CEPA-JICA Project team in time of Covid-19 in PNG	
	18 September 20: CEFA-JICA Project realining time of Covid-19 in FNG	
	Government	
	21 September 20: Come, hear the birds and wind of Varirata sing to your heart	
	21 September 20: VNP tracks are easy to track and many features crystal clear creeks	
	Posting: 7, Photo album: (included in time line	1,168
12 Dec 20	3 Nov 20: Be sure to spend this Christmas well and enjoy the beautiful surrounding natural forests	(as of 1 Dec 20)
	21 Nov 20 (24 Nov 20 post): The Project is at Sogeri Pineapple Festival (1)	
	21 Nov 20 (24 Nov 20 post): The Project is at Sogeri Pineapple Festival (2)	
	22 Nov 20 (24 Nov 20 post): The Project is at Sogeri Pineapple Festival (3)	
	18 Nov 20 (25 Nov 20 post): Project Final Seminar (1)	
	18 Nov 20 (25 Nov 20 post): Project Final Seminar (2)	
	18 Nov 20 (25 Nov 20 post): Project Final Seminar (3)	

Article list posted on project facebook page (4.3.2 fb records) Article list posted on project facebook page BBMCI

F	osted on project facebook page_BBMCI	
Term	Date / Title	A total of Like
Jul 2017 -	Posting:36, Photo album:1 (included in time line)	-
Nov 2017	25 Jul 17: Introduction of BBMCI	
	26 Jul 17: Corals in the vicinity of Pyramid (Taurama) Point	
	26 Jul 17: Explanation of the Bootless Bay Marine Conservation Initiative	
	27 Jul 17: Mangrove distribution in Bootlerss BayCourtesy CEPA-JICA Project	
	27 Jul 17: Tuna/Oyster BayDrone Image. CEPA-JICA Project	
	25 Aug 17: "Enhancement of Community Conservation Programs " trail workshop training	
	11 Sep 17: Terrestrial & Marine Biodiversity Conservation Training Program	
	22 Sep 17: Terrestrial & Marine Biodiversity Conservation Training Program	
	22 Sep 17: The youths are thanked for making time available to trail out the new community oriented conservation and	
	biodiversity course trailed by UPNG.	
	23 Sep 17: The MoU on Tahira and Motupore MPA arrangement between CEPA and UPNG	
	23 Sep 17: The old "Maniwavie" mangrove nursery in Tahira undergoing maintenance	
	25 Sep 17: The increase in anthropogenic CO2 emissions over the last century	
	28 Sep 17: Move office	
	6 Oct 17: Side Events at the 28th SPREP Meeting - Effectiveness of Papua New Guinea's Protected Areas	
	6 Oct 17: The Coral Bleaching Futures report	
	6 Oct 17: Oceania rallies together for migratory species conservation	
	9 Oct 17: CEPA JICA Project team presented Bootless Bay Conservation	
	9 Oct 17: UPNG Class of 2017Protected Areas	
	11 Oct 17: Some discussions going forth	
	11 Oct 17: PNG's most recent declaration on whales	
	12 Oct 17: Certificate in Biodiversity Conservation	
	12 Oct 17: PNG Oceans Policy???? Do we have or is it still been worked on???	
	12 Oct 17: Meanwhile across the OceanVanuatu National Ocean Policy	
	18 Oct 17: Mangrove forest ecosystems	
	18 Oct 17: Biodiversity - The totality of genes, species, and ecosystems in a region or the world	
	21 Oct 17: CEPA is officiating at the project closing and launching of planning tools for the project on "Building Capacity for	r
	Sustainable Development in the Bismarck Sea"	
	24 Oct 17: How can marine samples be preserved for furher analysis in the lab?	
	24 Oct 17: Prorected Areas Certificate Training	
	2 Nov 17: Presentation by Motu Koitabu Pipeline Project Developer	
	8 Nov 17: Designation of the Jomard entrance as a particularly sensitive sea area	
	17 Nov 17: Construction of new Larger signboardTahira Turnoff	
	17 Nov 17: The recent signboard setup	
	1 Dec 17: CEPA-JICA Project Team with JICA Tokyo Office visit Bootless Bay	
	1 Dec 17: Bootless Bay	
	1 Dec 17: Motupore Island	
	18 Dec 17: Biodiversity Conservation Course	
	Mangrove areas in Booltess Bay	
Jan 2018 - 9	Posting:1, Photo album: (included in time line)	-
May 18	19 Jan 18: To Hiri (pure) Motu Speakers	

Records of promotion (4.3.5 Promotion records)

No.	Date	Activity	Event	Venue	Total participants
1	26 May 16	Made presentation on the project	Kokoda Initiative workshop	-	-
2	26 May 16	Communicated with Central PA Administrator, Deputy Administrator, LLG Manages, and othe central provincial leaders		-	-
3	24 Oct 16	Held launching ceremony of the project boat	launching ceremony of the project boat	Tahira Boating Center of UPNG	35
4	24 Oct 16	Distributed T-shirt for "Bootless Bay Marine Conservation Initiative"	launching ceremony of the project boat	Tahira Boating Center of UPNG	35
5	4 Mar 17	Promoted the project	World Wildlife Day event	Nature Park (Port Moresby)	
6	20 Apr 17	Held the Inaugural Event for Renovated Facilities in Varirata National Park	Inaugural Event for Renovated Facilities in Varirata National Park	Varirata National Park	more than 100
7	20 Apr 17	Distributed T-shirt for "Friends of Varirata"	Inaugural Event foi Renovated Facilities in Varirata National Park	Varirata National Park	more than 100
8	5 Jun 17	Major sponsorship	World Environment Day event	Varirata National Park	over 400
9	5-9 Jun 17	Run a booth	World Oceans Conference	UN HQ, New York City	-
10	7 Jun 17	Made a presentation	World Oceans Conference	UN HQ, New York City	-
11	9 Jun 17	Launched the CTI Day	CTI day	Taikone, Moresby south	-
12	18 Oct 18	Held Study Tour to VNP and National Museum of PNG	Biodiversity and Conservation Seminar	Varirata National Park / National Museum of PNG	77
13	2 Mar 19	Promoted the project	World Wildlife Day event	Nature Park (Port Moresby)	-
14	4-5 Jun 19	Major sponsorship	World Environment Day event	Mirigeta of Bootless Bay / Adventure Park	more than 80
15	9 Aug 19	Held the signing ceremony of MOU, which was signed by the Central Provincial Government at CEPA for the protection of the mangroves and marine resource	MOU signing ceremony	Mirigeda of Bootless Bay	47
16	9-16 Oct 19	Held the event of community awareness on Bootless Bay MPA	Community awareness event	Bootless Bay	about 500
17	9 & 10 Nov 19	Held Varirata National Park one day tour packages	Varirata National Park tour package	Varirata National Park	40
18	13 Jun 20	Major sponsorship	World Environment Day event with Coral triangle Initiative	Bootless Bay	-
19	20 Jun 20	Held Varirata National Park one day tour packages	Varirata National Park tour package	Varirata National Park	131
20	21 & 22 Nov20	Run a booth	Sogeri Pineapple Festiva	around the Varirata National Park and within Sogeri areas	-

Records of workshop/seminar (4.4.2 WS records)

No.	Date	Purpose	Venue	Total participants
1	29 Jul 15	Kick-off Seminar / Workshop for CEPA-JICA Biodiversity Project	Holiday Inn	94
2	22 Oct 15	Inception Workshop for Koiari	Kokoda Trail Hotel	73
3	22 Nov 15	Follow-up Workshop for Koiari	Sogeri Lodge	27
4	25 Feb 16	Workshop on Livelihood Development & Bird Watching in Koiar	Sogeri Lodge	31
5	19 May 16	VNP Landowner Workshop on Livelihood devlopment	Kokoda Trail Hotel	25
6	16 Aug 16	Inception Workshop for the creation of Bootless Bay Marine Conservation Initiative (BBMCI) at Motupore Island	Motupore Island	33
7	31 Jan 17	The 2nd Workshop for the creation of BBMCI	Lamana hotel	55
8	2 Feb 17	VNP Wrap-up Workshop on the Project Achievements 2015-2016	Sogeri Lodge	57
9	20 Apr 17	Inaugural Launch for the Renovated Facilities in Varirata National Park	Varirata National Park	12
10	12 Apr 17	The 1st meeting for BBMCI at Tubseria Village	Tubseria Village	104
11	19 Apr 17	The 2nd meeting for BBMCI	CEPA	17
12	21 Jun 17	The 3rd meeting for BBMCI	CEPA	19
13	25 Jul 17	The 4rd meeting for BBMCI	CEPA	23
14	12 Mar 18	The 5rd meeting for BBMCI	CEPA	20
15	16,17,19 Oct 18	Biodiversity and Conservation Seminar	Gateway Hotel	346
16	3 Sep 18	The 6th meeting for BBMCI	CEPA	24
17	25 Jan 19	The 7th meeting for BBMCI	CEPA	20
18	28 Mar 19	Inaugural Ceremony for the Information Center Complex in VNP	Varirata National Park	98
19	2 Sep 19	The 8th meeting for BBMCI	CEPA	20
20	15 Nov 19	The 3rd Workshop for BBMCI	CEPA	26
21	5 Feb 20	The 9th meeting for BBMCI/the 1st meeting for Bootless Bay National Marine Sanctuary (BBNMS) Working Group (WG)	CEPA	34
22	18 Nov 20	Final Seminar for CEPA-JICA Biodiversity Project	CEPA	40

ANNEX 3: PDM (All versions of PDM)

Attachment 1 : PDM ver.1 from RD

Project Design Matrix (PDM)

Project Title: The Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas

Implementing/Responsible Agency: Department of Environment and Conservation (DEC) Target Group/Direct Beneficiaries: 1) Personnel of DEC, 2) Provincial administration(s), district administration(s) and LLG(s) surrounding the target PA(s) Target Areas: 1) target protected area(s), 2) Koiari LLG for livelihood activities in the Output 2

Project Period: Five (5) years from 2015

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal			
Protected Area Network is effectively managed by applying Protected Area (PA) management (and establishment) model(s), which were developed by the Project.	 i. The PA management model activities which were developed by the Project are introduced to other PA management in the country. ii. Varirata landscape is officially recognized as a biosphere reserve by MAB of UNESCO. iii. New PAs are established as per the procedures developed by the Project. 	 i. Monitoring results of DEC on Protected Area Network. ii. Correspondence with UNESCO. iii. Monitoring results of DEC on Protected Area Network. 	 PPA implementation is priority for PNG government. Local governments around VNP have strong commitments for registration of MAB.
Project Purpose			
Institutional capacity ¹⁾ of DEC for PA management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of the PNG Policy on Protected Areas (PPA).	 i. The legal and institutional framework for effective management and governance of the PNG Protected Area Network is in place. ii. Concerned institutions and local governments collaboratively work for development planning, zoning, livelihood development and so on for the management of target PA(s) and its landscape(s). 	 i. NCC's minutes of meeting ii. DEC's annual report, Project's annual report, questionnaire survey results of local governments before the end of the Project 	 Management improvement and establishment of PA are priority activities in PPA implementation for DEC. Local governments around VNP have strong commitments for landscape-level environmental management.
Outputs			
National-level governance and management arrangement for Protected 1 Area Network (i.e., PPA Action Plan, National Conservation Council (NCC)) is strengthened.	i. NCC is officially established by XX, and the meetings are regularly held as per the NCC operational plan.ii. Recommendations on the use of past biodiversity assessment results is applied on other concerned activities.iii. PPA Action Plan is officially approved by NCC by XX.	 i. NCC's minutes of meeting, NCC operational plan ii. DEC's annual report, project's annual report iii. PPA Action Plan, NCC's minutes of meeting 	
2 The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.	 i. Park facilities developed by the Project become functional by XX, contributing to public reputation/appreciation of VNP. ii. Regional/landscape-level management plan is understood and appreciated by concerned local governments (provincial, district and LLG). iii. Biodiversity conservation of VNP landscape is integrated into the local governments' development plans (provincial, district and LLG). iv. MAB nomination form is drafted based on the outcomes of the Project by XX. 	 i. DEC's annual report, project's annual report, public hearing results ii. Stakeholder assessment results in the project's annual report iii. Development Plans iv. MAB nomination form 	 Counterpart personnel are assigned for project activities Technical/Administrative Coordinator is assigned on full-time basis. Local governments around VNP have strong commitments for
A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.	 i. A proposal for new marine PA is submitted in accordance with the requirements of PPA by XX. ii. Proposed new PA is authorized by RPART/NPART and NCC by XX. iii. Management instruments (i.e., management plan) of the new PA are ready for use by XX. iv. A report of establishment model is prepared by XX. 	 i. Proposal for new marine PA ii. NCC's minutes of meeting, RPART/NPART's minutes of meeting iii. DEC's annual report, project's annual report iv. Report of establishment model 	landscape level environmental management.
⁴ Public relations/awareness for biodiversity conservation is improved by disseminating project related information.	i. Strategy for public relations/awareness is implemented.ii. Project website is made by XX, and regularly updated as stated in the plan.iii. More than X types of information dissemination materials are	 i. Project's annual report ii. Website monitoring report in the project's annual report iii. Strategy for public 	

		made, and disseminated to more than XX people a the strategy for public relations/awareness.iv. More than XX times of workshops/seminars for in dissemination are held every year.	dissemination materials		
Activ		Inputs			
1-1 1-2	Establish and operate the NCC with holding regular meetings. Review and assess the level of achievement for National	Japan Side	PNG Side		
1-3	Biodiversity Strategy Action Plan (NBSAP). Review data and information from past biodiversity assessments on both marine and terrestrial ecosystems.	 Chief Advisor/ Biodiversity Conservation Biodiversity Policy/ Protected Area Management 	<personnel></personnel>	- Security is maintained for project	
1-4	Identify priority activities and sites to be included in the PPA Action Plan ²⁾ .	- Natural Resource Management/ Livelihood Development	 Project Director Project Manager 	 Security is maintained for project activities in the target areas. There is no drastic change in the 	
1-5	Consult with partner institutions and agree on the roles and responsibilities of each institution for the PPA Action Plan.	- Biodiversity Information Management/ GIS/Remote Sensing(RS)	 Counterpart personnel for Japanese experts Technical/Administrative Coordinator (full-time for the Project) 	 There is no drastic change in the institutional structure of DEC. DEC secure budget for project 	
1-6	Prepare the PPA Action Plan, and conduct official procedure for approval by National Executive Council.	<training> - Training in specific fields in Japan, or/and</training>	<pre><office and="" facilities=""></office></pre>	activities.	
2-1	Prepare regional/landscape-level management plan ³⁾ including VNP and its landscape.	- Training in specific fields in the third country	 Office space for the Japanese Team at DEC Necessary facilities for the Japanese Team 		
2-2	Strengthen the management functions of VNP in accordance with the management plan.	<machinery and="" equipment=""> - One vehicle (additional truck will be considered</machinery>	<operational cost=""></operational>	D. C. Wit	
2-3	Enhance regional/landscape-level land use through zoning ⁴) by joint-efforts of central government, local governments and other stakeholders.	for livelihood activity when the Project starts) - H - Equipment necessary for the project activities		Pre-Conditions	
2-4	Enhance regional/landscape-level development planning with emphasis on biodiversity conservation by integrating different level government development planning.	 Facilities necessary for the project activities upon mutual agreement 	 Security escort Running expenses necessary for the implementation of the Project (including fuel 	- Development of legislative and institutional set up for PPA	
2-5	Enhance local livelihood activities in Koiari Local-level Government (LLG) for contributing biodiversity conservation of VNP and its landscape by promoting sustainable use of natural resources.	<operational cost=""> Cost for project activities (for sharing cost with PNG side) Cost for maintenance of equipment/machinery </operational>	 expenses for vehicle(s)) Cost required for running the project office such as stationary and office equipment Transportation to meet project administration 	implementation is priority for PNG government.DEC is strongly committed to the PPA implementation.	
3-1	Select target area(s) for establishing a model marine PA.	purchased by the Project	requirements	- VNP is a priority PA in DEC.	
3-2	Consult with local governments and communities including customary landowners to seek potential for establishing new PA of either regional- or national-level.	 Cost for employment of local experts Cost for travel (for domestic and international) Definition of Key Terms:			
3-3	Develop a proposal for a new marine PA with conducting natural and cultural value assessment, social mapping and public consultation.	Council (NCC))" - that enable efficient and effective	e instruments. Instruments consist of 1) "institutional ve coordination, 2) "common roadmap (e.g., PPA Act	l structure(e.g., National Conservation tion Plan, landscape-level management	
3-4	Consult with Regional Protected Area Round Table (RPART) /National Protected Area Round Table (NPART) and local/national governments to be endorsed with the official procedure for gazetting the new PA.	plan, management plan of Protected Areas (PAs))" - that promote coordinated activities by various local stakeholders, and 3) "local conservation tool (e.g., local development plans, zoning plans)" - that facilitate environmental conservation to be centred by local communities. However, details are to be defined at the initial stars of the Project			
3-5	Prepare the management plan for the new PA.	achieve the provisions of PPA. However, details ar		challenges vision mission and	
3-6	Strengthen the management functions of the new PA in accordance with the management plan.		vel management of the Varirata National Park (VNP) ed local governments for the purpose of implementing	and its landscape, to be shared by	
4-1	Develop strategy for public relations/awareness.	be defined at the initial stage of the Project.			
4-2	Collect and manage data/information for the management of model PA(s).	4) "Zoning" shall define areas to be core, buffer and transition with respective functions and rationale in the surrounding areas of the VNP and its landscape, as per the requirement of Man and Biosphere (MAB) Programme. However, details are to be defined at the initial stage of the			
4-3	Elaborate data/information sharing materials and disseminate through appropriate media.	Project. <u>Abbreviations:</u>			
4-4	Conduct workshop/seminar for better public relations/awareness.	LLG: Local Level Government, MAB: Man and the E Policy on Protected Areas, RPART: Regional Protected Organization, VNP: Varirata National Park			

Project Design Matrix (PDM)

Project Title: The Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas

Implementing/Responsible Agency: Conservation and Environment Protection Authority (CEPA)

Target Group/Direct Beneficiaries: 1) Personnel of CEPA, 2) Provincial administration(s), district administration(s) and LLG(s) surrounding the target PA(s)

Target Areas: 1) target protected area(s), 2) Koiari LLG for livelihood activities in the Output 2

Project Period: Five (5) years from June 2015

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal			
Protected Area Network is effectively managed by applying Protected Area (PA) management (and establishment) model(s), which were developed by the Project.	 i. The PA management model activities which were developed by the Project are introduced to other PA management in the country. ii. Varirata landscape is officially recognized as a biosphere reserve by MAB of UNESCO. iii. New PAs are established as per the procedures developed by the Project. 	i. Monitoring results of CEPA on Protected Area Network.ii. Correspondence with UNESCO.iii. Monitoring results of CEPA on Protected Area Network.	 PPA implementation is priority for PNG government. Local governments around VNP have strong commitments for registration of MAB.
Project Purpose			
Institutional capacity ¹⁾ of CEPA for PA management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of the PNG Policy on Protected Areas (PPA).	 i. The institutional framework for effective management and governance of the PNG Protected Area Network is in place. ii. Concerned institutions and local governments collaboratively work for development planning, livelihood development and biodiversity conservation for the management of target PA(s) and its landscape(s). 	 NCC's minutes of meeting CEPA's annual report, Project's annual report, questionnaire survey results of local governments before the end of the Project 	 Management improvement and establishment of PA are priority activities in PPA implementation for CEPA. Local governments around VNP have strong commitments for landscape-level environmental management.
Outputs			
National-level governance and management arrangement for Protected 1 Area Network is strengthened through National Conservation Council (NCC).	i. NCC is officially established by Dec. 2017, and the meetings are regularly held as per the NCC operational plan.	i. NCC's minutes of meeting, NCC operational plan	
2 The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.	 i. Park facilities developed by the Project become functional by Dec. 2019, contributing to public reputation/appreciation of VNP. ii. An appropriate park management plan(s) is(are) developed by Dec. 2018, contributing to public reputation/appreciation of VNP. iii. Biodiversity conservation of VNP landscape is integrated into the local governments' development plans (provincial, district and LLG). iv. VNP surrounding communities obtain livelihood development options under their own initiative. v. MAB nomination form is drafted based on the outcomes of the Project by Dec. 2019. 	 i. CEPA's annual report, project's annual report, public hearing results ii. Management improvement action plan and Park management plan iii. Development Plans iv. Project's annual report v. MAB nomination form 	 Counterpart personnel are assigned for project activities Technical/Administrative Coordinator is assigned on full-time basis. Local governments around VNP have strong commitments for landscape level environmental
A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.	 i. A proposal for new marine PA is submitted in accordance with the requirements of PPA by Mar. 2019. ii. Proposed new PA is authorized by RPART/NPART and NCC by Jul. 2019. iii. Management instruments (i.e., management plan) of the new PA are ready for use by Mar. 2020. iv. A report of establishment model is prepared by Apr. 2020. 	 i. Proposal for new marine PA ii. NCC's minutes of meeting, RPART/NPART's minutes of meeting iii. CEPA's annual report, project's annual report iv. Report of establishment model 	management.
4 Public relations/awareness for biodiversity conservation is improved by disseminating project related information.	i. Strategy for public relations/awareness is implemented.ii. Project website is made by Sep. 2016, and regularly updated as stated in the plan.	 i. Project's annual report ii. Website monitoring report in the project's annual report 	

Activ	ities	 iii. More than 5 types of information dissemination m made, and disseminated to more than 30% of targe population as planed in the strategy for public relations/awareness. iv. More than 3 times of workshops/seminars for info dissemination are held by the end of the Project. 	et area	iii. Strategy for public relations/awareness, information dissemination materialsiv. Reports of workshops/seminars	
1-1	Provide support for establishing the NCC.	*			
		Japan Side		PNG Side	
1-2	Provide support for operating the NCC.	<expert></expert>			
	[Revival Stage] ²⁾	- Chief Advisor/ Biodiversity Conservation			
2-1	Conduct management assessment, and prepare "Management Improvement Action Plan" of VNP.	 Biodiversity Policy/ Protected Area Management Natural Resource Management/ Livelihood 	<personnel - Project D</personnel 	irector	- Security is maintained for project activities in the target areas.
2-2	Conduct works (i.e. revenue improvement, monitoring, security, etc.) to improve VNP management.	Development - Biodiversity Information Management/		art personnel for Japanese experts	 There is no drastic change in the institutional structure of CEPA.
2-3	Conduct facility assessment, and prepare "Facility Development Action Plan."	GIS/Remote Sensing(RS)		l/Administrative Coordinator for the Project)	 CEPA secure budget for project activities.
2-4	Conduct rehabilitation works (i.e., trail, signage etc.) on park facilities.	<training> - Training in specific fields in Japan, or/and - Training in specific fields in the third country</training>		d Facilities> ace for the Japanese Team at CEPA	
2-5	[Progress Stage] ³⁾ Conduct necessary assessments to prepare Park Management Plan for progress stage.	<machinery and="" equipment=""></machinery>	- Necessary	y facilities for the Japanese Team	
2-6	Prepare Park Management Plan for progress stage.	- One vehicle (additional truck will be considered for livelihood activity when the Project starts)		or project activities by the counterpart	Pre-Conditions
2-7	Enhance regional/landscape-level development planning with emphasis on biodiversity conservation by integrating different level government development planning.	 Equipment necessary for the project activities upon mutual agreement Facilities necessary for the project activities upon mutual agreement 	allowance - Security e	(including domestic airfare, e and accommodation fee). escort expenses necessary for the	- Development of legislative and institutional set up for PPA
2-8	Enhance local livelihood activities in Koiari Local-level Government (LLG) for contributing biodiversity conservation of VNP and its landscape by promoting sustainable use of natural resources.	<operational cost=""> Cost for project activities (for sharing cost with </operational>	expenses - Cost requ	ntation of the Project (including fuel for vehicle(s)) ired for running the project office	implementation is priority for PNG government. - CEPA is strongly committed to
3-1	Select target area(s) for establishing a model marine PA.	PNG side) - Cost for maintenance of equipment/machinery		ationary and office equipment ation to meet project administration	the PPA implementation.
3-2	Consult with local governments and communities including customary landowners to seek potential for establishing new PA of either regional- or national-level.	Cost for maintenance of equipment machinery purchased by the Project Cost for employment of local experts Cost for travel (for domestic and international) Definition of Key Terms:	requireme		- VNP is a priority PA in CEPA.
3-3	Develop a proposal for a new marine PA with conducting natural and cultural value assessment, social mapping and public consultation.	 "Institutional capacity" can be defined as CEPA's c and individual capacity of CEPA staff to utilise tho Conservation Council (NCC))" - that enable efficied 	se instrument	ts. Instruments consist of 1) "institutionative coordination in national level, 2) " ro	al structure(e.g., National badmap and guideline(e.g.,
3-4	Consult with Regional Protected Area Round Table (RPART) /National Protected Area Round Table (NPART) and local/national governments to be endorsed with the official procedure for gazetting the new PA.	 Management plan of Protected Areas (PAs))" - that local stakeholders, and 3) "local conservation tool by local communities. 2) "Revival stage" can be defined as a stage which for the stage of the stage of the stage. 	(e.g., local de	evelopment plans)" - that facilitate envir	onmental conservation to be centred
3-5	Prepare the management plan for the new PA.	park, all of which once the park was equipped. The			
3-6	Strengthen the management plan to the own FLL with the management plan.	time. In this stage, two assessments 1)management 1)management improvement action plan, and 2)fac	assessment, ility develop	and 2)facility assessment are to be cond ment action plan, are to be made for imp	ucted, and based on the assessments, plementation of revival works.
4-1	Develop strategy for public relations/awareness.	3) "Progress stage" can be defined as a stage to furthe			
4-2	Collect and manage data/information for the management of model PA(s).	assume the park as "core zone" of regional ecosyst the scope to realize bio-regional management in th			
4-3	Elaborate data/information sharing materials and disseminate through appropriate media.	Abbreviations:	licanhana NT	ADT. National Drotacted Ano- D 1	Cakle DA, Ductooted Area DDA, DNC
4-4	Conduct workshop/seminar for better public relations/awareness.	LLG: Local Level Government, MAB: Man and the F Policy on Protected Areas, RPART: Regional Protect Organization, VNP: Varirata National Park			

Project Design Matrix (PDM)

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Target Areas: 1) target protected area(s), 2) Koiari LLG for livelihood activities in the Output 2

Project Period: Five (5) years from June 2015

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal			
Protected Area Network is effectively managed by applying Protected Area (PA) management (and establishment) model(s), which were developed by the Project.	 i. The PA management model activities which were developed by the Project are introduced to other PA management in the country. ii. Varirata landscape is officially recognized as a biosphere reserve by MAB of UNESCO. iii. New PAs are established as per the procedures developed by the Project. 	i. Monitoring results of CEPA on Protected Area Network.ii. Correspondence with UNESCO.iii. Monitoring results of CEPA on Protected Area Network.	 PPA implementation is priority for PNG government. Local governments around VNP have strong commitments for registration of MAB.
Project Purpose			
Institutional capacity ¹⁾ of CEPA for PA management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of the PNG Policy on Protected Areas (PPA).	 i. The institutional framework for effective management and governance of the PNG Protected Area Network is in place. ii. Concerned institutions and local governments collaboratively work for development planning, livelihood development and biodiversity conservation for the management of target PA(s) and its landscape(s). 	 i. NCC's minutes of meeting ii. CEPA's annual report, Project's annual report, questionnaire survey results of local governments before the end of the Project 	 Management improvement and establishment of PA are priority activities in PPA implementation for CEPA. Local governments around VNP have strong commitments for landscape-level environmental management.
Outputs			
National-level governance and management arrangement for Protected 1 Area Network is strengthened through National Conservation Council (NCC).	i. NCC is officially established by <u>SepDec</u> . 20187, and the meetings are regularly held as per the NCC operational plan.	i. NCC's minutes of meeting, NCC operational plan	
2 The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.	 i. Park facilities developed by the Project become functional by Dec. 2019, contributing to public reputation/appreciation of VNP. ii. An appropriate park management plan(s) is(are) developed by Dec. 2018, contributing to public reputation/appreciation of VNP. iii. Biodiversity conservation of VNP landscape is integrated into the local governments' development plans (provincial, district and LLG). iv. VNP surrounding communities obtain livelihood development options under their own initiative. v. MAB nomination form is drafted based on the outcomes of the Project by Dec. 2019. 	 i. CEPA's annual report, project's annual report, public hearing results ii. Management improvement action plan and Park management plan iii. Development Plans iv. Project's annual report v. MAB nomination form 	 Counterpart personnel are assigned for project activities Technical/Administrative Coordinator is assigned on full-time basis. Local governments around VNP have strong commitments for landscape level environmental
A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.	 i. A proposal for new marine PA is submitted in accordance with the requirements of PPA by Mar. 2019. ii. Proposed new PA is authorized by RPART/NPART and NCC by Jul. 2019. iii. Management instruments (i.e., management plan) of the new PA are ready for use by Mar. 2020. iv. A report of establishment model is prepared by Apr. 2020. 	 i. Proposal for new marine PA ii. NCC's minutes of meeting, RPART/NPART's minutes of meeting iii. CEPA's annual report, project's annual report iv. Report of establishment model 	management.
4 Public relations/awareness for biodiversity conservation is improved by disseminating project related information.	i. Strategy for public relations/awareness is implemented.ii. Project website is made by Sep. 2016, and regularly updated as stated in the plan.	 i. Project's annual report ii. Website monitoring report in the project's annual report 	

		 iii. More than 5 types of information dissemination m made, and disseminated to more than 30% of targ population as planed in the strategy for public relations/awareness. iv. More than 3 times of workshops/seminars for info dissemination are held by the end of the Project. 	et area	 iii. Strategy for public relations/awareness, information dissemination materials iv. Reports of workshops/seminars 	
Activ		Inputs	[
1-1	Provide support for establishing the NCC.	Japan Side		PNG Side	
1-2	Provide support for operating the NCC.	<expert></expert>			
	[Revival Stage] ²⁾	- Chief Advisor/ Biodiversity Conservation			
2-1	Conduct management assessment, and prepare "Management Improvement Action Plan" of VNP.	 Biodiversity Policy/ Protected Area Management Natural Resource Management/ Livelihood 	<personnel - Project D</personnel 	irector	- Security is maintained for project activities in the target areas.
2-2	Conduct works (i.e. revenue improvement, monitoring, security, etc.) to improve VNP management.	Development - Biodiversity Information Management/		art personnel for Japanese experts	 There is no drastic change in the institutional structure of CEPA.
2-3	Conduct facility assessment, and prepare "Facility Development Action Plan."	GIS/Remote Sensing(RS)		/Administrative Coordinator for the Project)	 CEPA secure budget for project activities.
2-4	Conduct rehabilitation works (i.e., trail, signage etc.) on park facilities.	 <training></training> Training in specific fields in Japan, or/and Training in specific fields in the third country 		l Facilities> ace for the Japanese Team at CEPA	
2-5	[Progress Stage] ³⁾ Conduct necessary assessments to prepare Park Management Plan for progress stage.	<machinery and="" equipment=""></machinery>	- Necessary	y facilities for the Japanese Team	
2-6	Prepare Park Management Plan for progress stage.	 One vehicle (additional truck will be considered for livelihood activity when the Project starts) Equipment necessary for the project activities 		al Cost> or project activities by the counterpart (including domestic airfare,	Pre-Conditions
2-7	Enhance regional/landscape-level development planning with emphasis on biodiversity conservation by integrating different level government development planning.	 Equipment necessary for the project activities upon mutual agreement Facilities necessary for the project activities upon mutual agreement 	allowance - Security e	e and accommodation fee).	- Development of legislative and institutional set up for PPA
2-8	Enhance local livelihood activities in Koiari Local-level Government (LLG) for contributing biodiversity conservation of VNP and its landscape by promoting sustainable use of natural resources.	 <operational cost=""></operational> Cost for project activities (for sharing cost with PNG side) 	implemen expenses - Cost requ	for vehicle(s)) ired for running the project office ationary and office equipment	implementation is priority for PNG government. - CEPA is strongly committed to
3-1	Select target area(s) for establishing a model marine PA.	- Cost for maintenance of equipment/machinery		ation to meet project administration	the PPA implementation.
3-2	Consult with local governments and communities including customary landowners to seek potential for establishing new PA of either regional- or national-level.	 purchased by the Project Cost for employment of local experts Cost for travel (for domestic and international) Definition of Key Terms: 	requireme		- VNP is a priority PA in CEPA.
3-3	Develop a proposal for a new marine PA with conducting natural and cultural value assessment, social mapping and public consultation.	 "Institutional capacity" can be defined as CEPA's c and individual capacity of CEPA staff to utilise the Conservation Council (NCC))" - that enable efficied 	se instrument	ts. Instruments consist of 1) "institutionative coordination in national level, 2) " ro	al structure(e.g., National padmap and guideline(e.g.,
3-4	Consult with Regional Protected Area Round Table (RPART) /National Protected Area Round Table (NPART) and local/national governments to be endorsed with the official procedure for gazetting	Management plan of Protected Areas (PAs))" - that local stakeholders, and 3) "local conservation tool by local communities.	(e.g., local de	evelopment plans)" - that facilitate envir	onmental conservation to be centred
3-5	the new PA. Prepare the management plan for the new PA.	 "Revival stage" can be defined as a stage which fo park, all of which once the park was equipped. The 			
3-6	Strengthen the management functions of the new PA in accordance with the management plan.	time. In this stage, two assessments 1)management 1)management improvement action plan, and 2)fac	assessment, ility develop	and 2)facility assessment are to be cond ment action plan, are to be made for imp	ucted, and based on the assessments, olementation of revival works.
4-1	Develop strategy for public relations/awareness.	3) "Progress stage" can be defined as a stage to furthe			
4-2	Collect and manage data/information for the management of model PA(s).	assume the park as "core zone" of regional ecosyst the scope to realize bio-regional management in th			
4-3	Elaborate data/information sharing materials and disseminate through appropriate media.	<u>Abbreviations:</u> LLG: Local Level Government, MAB: Man and the H	Siosphere NI	PART: National Protected Area Round 3	Sable PA. Protected Area PPA. PNG
4-4	Conduct workshop/seminar for better public relations/awareness.	Policy on Protected Areas, RPART: Regional Protect Organization, VNP: Varirata National Park			

ANNEX 4: R/D, M/M, Minutes of JCC (Internal reference only)

ANNEX 5: Project Monitoring Sheet (Internal reference only)