

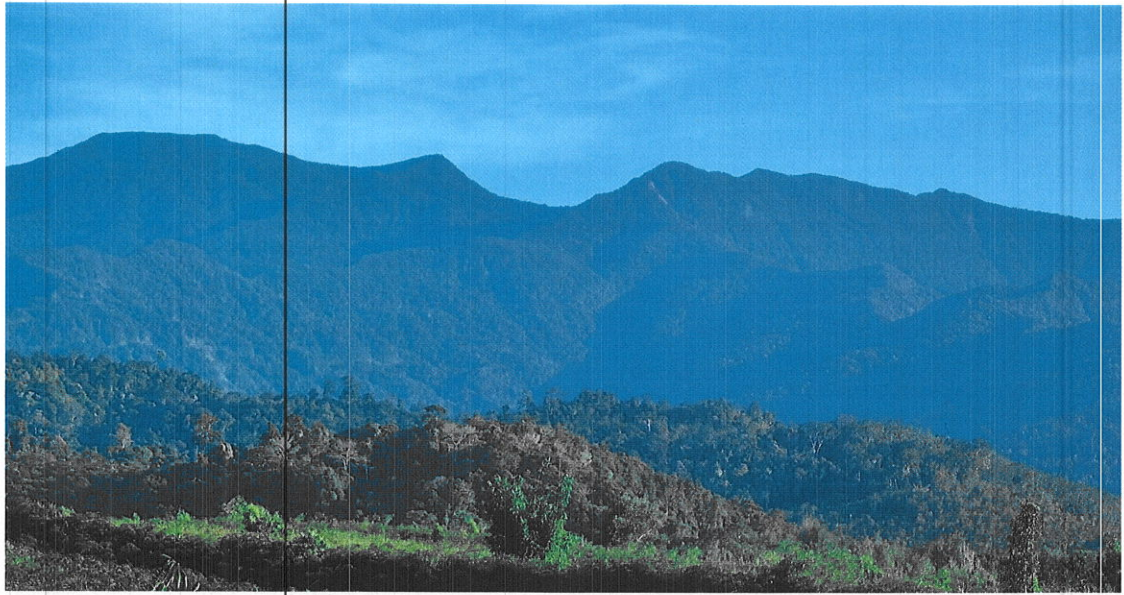


FOREST MANAGEMENT UNIT 10 (TAMBUNAN)



Nuluhon Trusmadi Forest Reserve (Class 1), Nuluhon Trusmadi
Forest Reserve Extension (Class 1) and
Sg. Kiluyu Forest Reserve (Class 1)

ANNUAL WORK PLAN 2019



Prepared by:
District Forestry Office, Keningau
2019

ANNUAL WORK PLAN 2019

FOREST MANAGEMENT UNIT 10 (TAMBUNAN)

NULUHON TRUSMADI FOREST RESERVE (CLASS 1),
NULUHON TRUSMADI FOREST RESERVE EXTENSION (CLASS 1)
AND
SG. KILUYU FOREST RESERVE (CLASS 1)

Approved by:



(DATUK MASHOR MOHD. JAINI)
CHIEF CONSERVATOR OF FORESTS
SABAH FORESTRY DEPARTMENT

211019

DATE: _____

CONTENT

		<u>Page</u>
1	INTRODUCTION	1
2	FMU 10 (TAMBUNAN)	4
2.1	Objectives	5
3	OPERATIONAL STRUCTURE AND BUDGET	7
3.1	Operational Responsibilities	7
4	BUDGET AND EXPENDITURE	13
5	FOREST CERTIFICATION	14
6	IMPLEMENTATION OF STRATEGIES	15
6.1	Strategy 1: Boundary Demarcation and Maintenance	15
6.2	Strategy 2: Surveillance and Monitoring Activities	16
6.3	Strategy 3: Forest Restoration	17
6.4	Strategy 4: Management of Eco Tourism Activities	20
6.5	Strategy 5: Upgrading and Maintenance of Relevant Infrastructures and Website	21
6.6	Strategy 6: Communities Engagement	22
6.7	Strategy 7: Wildlifes Surveys In Ulu Rompon and Ulu Pangas	23
6.8	Strategy 8: Survey of Hornbills	24
6.9	Strategy 9: Conservation Awareness Programmes	24
6.10	Strategy 10: Managing Scientific Study	25
7	CONCLUSION	26
	APPENDIX 1	27-28
	APPENDIX 2	29
	APPENDIX 3	30-33
	APPENDIX 4	34-35

1. INTRODUCTION

This is the eleventh (11) AWP for FMU10 (Tambunan). For this AWP, all the implementation of prescribe strategies were based on Conservation Area Management Plan (CAMP) Version 2 (**FMU10: CAMP Ver. 2**) which is valid until 2026.

Under the FMU10: CAMP Ver. 2 the Target, Management Zones and Strategies are describe as belows:

1.1 Target

Three (3) Conservation Target has been decided and listed as Table 1.

Table 1: The Conservation Targets and Goals

CONSERVATION TARGETS	CONSERVATION GOALS
Upland Mixed Dipterocarp Forest (UMDF)	Restoration of fire degraded and encroached areas with native species
	To ensure zero fire, encroachments, and poaching in the habitat
Summit Scrub (SS)	To ensure minimal Impact from active Eco-Tourism activities at the Summit from the three (3) Climbing Routes
Hornbills*	Determination of the group's distribution and identification of the dominant species

*** Note:**

All of the hornbills' species are listed as Protected Fauna in Schedule 2 under Section 25 (2) of the Wildlife Conservation Enactment 1997; however those birds could still be hunted though Licences issued by the Sabah Wildlife Department

1.2 Management Zones

The management zones has classified to six (6) inline with its functions (Tables 2).

Table 2: The Management Zones

Item	Function
Zone 1:	Conservation Area covering all intact Upland Mixed Dipterocarp Forest (UMDF) and Lower Montane Forest (LMF) vegetations with an approximate area of 42,000 ha in the Nuluhon Trusmadi, all areas in both the Sg. Kiluyu and the Nuluhon Trusmadi (Extension) Forest Reserves
Zone 2:	Aquatic Protection Area that include all water bodies (rivers and streams) and their buffer zones. This zone may cover an approximate area of 4,000 ha
Zone 3:	Forest Restoration Area covering an approximate area of 22,000 ha of largely burnt and encroached areas
Zone 4:	Controlled Hunting Area that extends over some 6,000 ha in the Ulu Monsok and Ulu Rompon area.
Zone 5:	Eco tourism Area covering three (3) climbing routes to the peak of Mount Trus Madi. It may cover an estimated area of 1,000 ha
Zone 6:	Adventure Tourism Area operated by Borneo Jungle Area (BJG) under an Occupational Permit (OP) covering an area of 10.63 ha

This AWP will be the guiding document for the field implementers and the TWG (Technical Working Group) in carrying out their respective duties and responsibilities in conserving and assessing the success or impact of the conservation efforts inline with ten (10) strategies (**Table 3**). Besides that, the details of implementation schedules, the deployment of the required manpower, budgets and equipments for all implementers both from the Sabah Forestry Department (SFD) and the other relevant Departmental partners in 2019 are highlighted too.

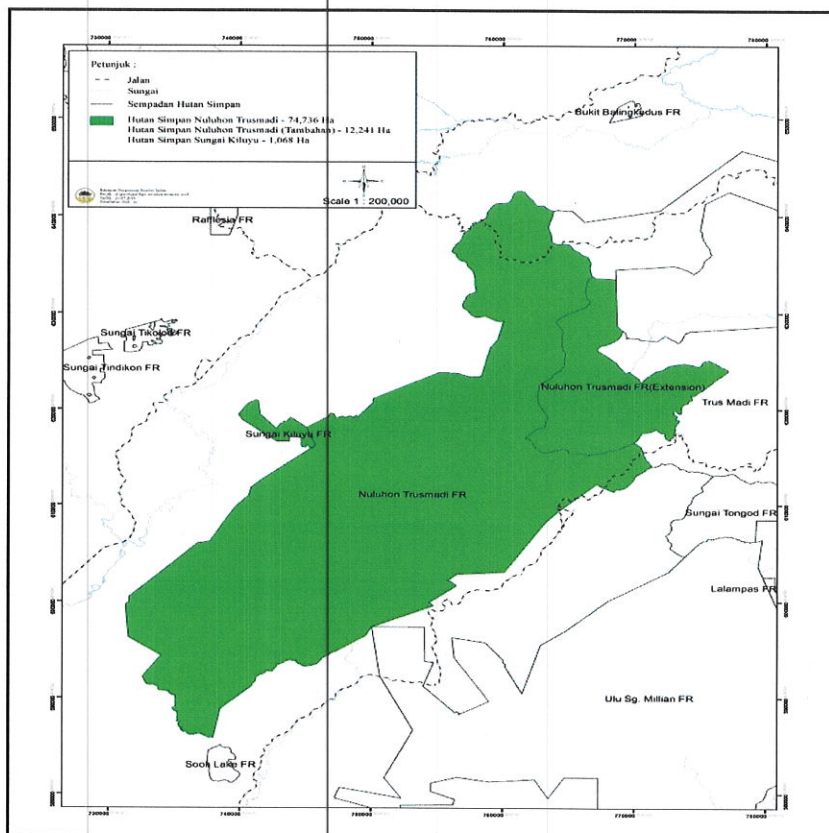
Table 3: Responsibilities in Implementing the Revised Conservation Strategies for FMU 10: CAMP Ver.2

No	Conservation Strategies	Implementers
1	Boundaries Demarcation And Maintenance	K(FRM) Assisted by DFO Keningau, Tambunan and Ranau and all field staff
2	Surveillance And Monitoring Activities	DFO Keningau, Tambunan and Ranau assisted by Elrimieo Emin, Hj. Muhammad Razali Bin Hj. Mohammad , Ricky Yolok and Marjjah Othman
3	Forest Restoration	DFO Keningau assisted by Anuar Mohammad
4	Management Of Eco Tourism Activities	DFO Keningau and Tambunan assisted by Hj. Muhammad Razali Bin Hj. Mohammad and Marjjah Othman
5	Upgrading And Maintenance Of Relevant Infrastructures And Website	DFO Keningau, Tambunan and Ranau assisted by Hj. Muhammad Razali Bin Hj. Mohammad, Elrimieo Emin and ICT Divison of Headquarters, Sandakan
6	Communities Engagement	DFO Keningau and Tambunan assisted by Marjjah Othman, Clarice Alliun and Ricky Yolok.
7	Wildlifes Surveys In Ulu Rompon And Ulu Pangas	DFO Keningau assisted by Sabah Wildlife Department (Keningau).
8	Survey Of Hornbills	Alim Biun of Sabah Parks
9	Conservation Awareness Programmes	DFO Keningau and Tambunan assisted by Marjjah Othman (Tambunan) and Clarice Alliun (Keningau) and Elrimieo Emin (Ranau)
10	Managing Scientific Study	DFO Tambunan/Keningau/Ranau assisted by Marjjah Othman, Elrimieo Emin, and Forest Research Centre

2. FMU 10 (TAMBUNAN)

The original total area for FMU10 as of November 2016 was 75,601 ha. It was made up of the Nuluhon Trusmadi Forest Reserve (Class 1) with a size of 74,736 ha and the Sg. Kiluyu Forest Reserve (Class 1) measuring 1,068 ha. In late 2016, a new area with a total size of of 12,241 ha known as the Nuluhon Trusmadi Forest Reserve Extension (Class 1) was added to the existing FMU10 area. This area was formerly under the FMU5 which was licensed to Anika Desiran Sdn Bhd. With the new addition, the total area for FMU 10 (Tambunan) is currently at 88,045 ha. The Keningau Forestry District administered a size of 47,772 ha of the FMU10 area; while the new area of 12,241 ha is under the Ranau Forestry District and the remaining 28,032 ha are within the Tambunan Forestry District's jurisdiction. Therefore, the FMU10 is currently managed jointly by the Distict Forest Officer (DFO) Keningau, Tambunan and Ranau.

Figure 1: Distribution of Nuluhon Trusmadi F.R, Nuluhon Trusmadi (Extension) and Sg. Kiluyu F.R



2.1 Objectives

Seven (7) objectives are set for 2019 as listed belows:

- I) Non - destructive usage such as scientific biodiversity expedition, conservation awareness and small scale controlled/licenced flora and fauna collections in the Management Zone 1.
- II) Prohibition of any fishing, riverine or aquatic collections, except for scientific biodiversity expedition or conservation awareness purposes in Management Zone 2.
- III) Maintenance of the 160 ha of the rehabilitated areas and establishment of 20 Ha of new planting in the encroached and fire degraded areas with native species in Management Zone 3.
- IV) Construction and upgrading of necessary infrastructures such as roads, buildings, checkpoint and others ecotourism facilities in Management Zones 1, 3, 4, 5 and 6 that will allow for conservation, ecotourism including mountain climbing and surveillance activities to be conducted or enhanced.
- V) Maintenance and re-brushing of the forest boundaries at Part B of the Nuluhon Trusmadi Forest Reserve to ensure proper surveillance and prosecutions of offenders as prescribed under the Forest Enactment 1968 as well as the Wildlife Conservation Enactment 1997.
- VI) Allowing for limited non-conservation usage, namely Ecotourism, adventure tourism and mountain climbing in Management zones 5 and 6.(refer to Rev. CAMP 2.0).

VII) Compliance of the findings of the annual surveillance audit in 2019 for Forest Certification by FSC in all FMU10 areas.

3. OPERATIONAL STRUCTURE AND BUDGET

The task to coordinate and facilitate the execution of this AWP is the Head Sustainable Forest Management Division, Mr. Musa Salleh, as the Chief Implementer / Chairman for the MPCT and TWG for CAMP FMU 10.

3.1 Operational Responsibilities

The main field implementers of the CAMP in 2019 are the District Forestry Officers (DFO) of Tambunan, Keningau and Ranau. Apart from their respective assigned staff, they are also assisted by the other departmental implementers, namely, the Sabah Wildlife Department (SWD) Keningau office, the Sabah Parks (SP), the relevant research officers from FRC and professional foresters from the Sandakan Forestry Headquarters and the FMU10 Operational Office, Keningau. **Figure 2** describes the Organisational Structure in implementing the CAMP Ver. 2 and the Annual Work Plan.

3.1.1 Existing Manpower under SFD

The total available manpower under SFD is ten (10) personnel. However, only eight (8) personnel are considered working fulltime in implementing the CAMP. The other two (2) personnel are part time implementers of the CAMP. **Table 3** above listed the assigned staff and their respective responsibilities to implement the strategies in 2019.

3.1.2 Manpower outside SFD

A total of four (4) personnel are available from the various government agencies (**Table 7**). The agencies involved are the Sabah Wildlife Department (SWD), Sabah Parks (SP) and the District Office Keningau and Tambunan. Most of these staffs however are not working fulltime in implementing the CAMP. Their

involvements are only in the relevant strategies which require their respective expertise.

Figure 2: Organisational Structure for Implementing the Revised CAMP FMU10

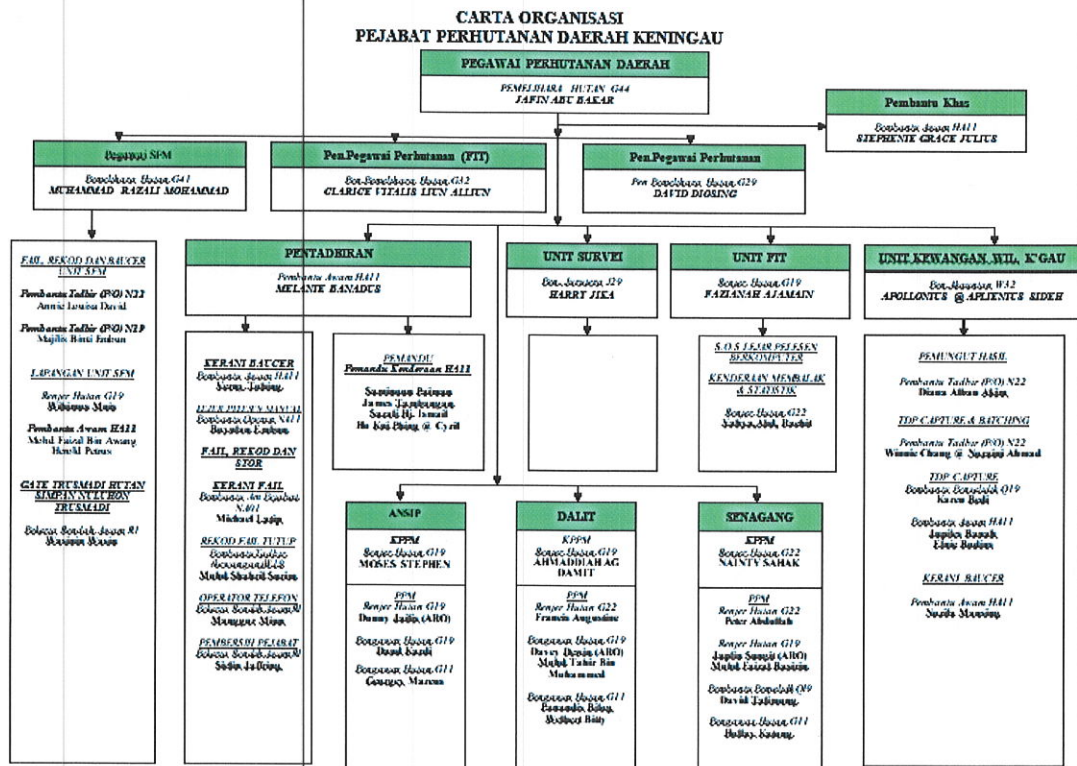


Table 4: Summary of SFD Manpower for the CAMP Operation in 2019

No	Designation	Personal	Grade	Status	Total
1	Head SFM Division	Musa Salleh	G54	P	1
2	Senior Research Officer (SRO)	Hj. Anuar Mohammad	Q54	P	1
3	Assistant Conservator of Forests (ACF)	Jafin A Bakar* (DFO Keningau) Hamidah Bujing* (Officer SFM Division) Abtah Deri (Officer FRM Division)	G44	P	3
4	Assistant Conservator of Forests (ACF)	Hj. Muhammad Razali Bin Hj. Mohammad* (SFMO Keningau)	G41	P	1
5	Pen. Pem. Hutan Kanan	Clarice Vitalis Aliun (Keningau)	G32	P	1
6	Pen. Pem. Hutan Kanan	Suib Basri* (DFO Tambunan) Jaimie Gampawi* (DFO Ranau) Amy Bosi (SFM) Marjjah Othman* (Tambunan) Ricky Yolok* (FMU10) Elrimeo Emin (Ranau)*	G29	P T	5 1
7	Renjer Hutan Kanan (RHK)	Servatius Joseph (Tambunan)	G22	P	1
8	Renjer Hutan (RH)	Wihimos Muis (Keningau)* Ahmahdiah Awg Damit (Keningau)* Daud Kardi (Keningau)* Faizal Bin Basirin (Keningau)* Edmund Attiu (Tambunan)*	G19	P	5
9	Pengawas Hutan	Hyally Yahya (Tambunan)* Clement James Solisip (Tambunan)* Welbert Bitty (Keningau)*	G11	P	3
10	Research Assistant	Nasrah Yusof	Q22	P	1
11	Perkeranian / Perakaunan	Annie Louisa David*	N22	P	1

12	Driver		Hildi Sungot (Tambunan)*	R3	P	1
13	PRA		Dius Basil (Tambunan)* Wasinin Wasi (Keningau)* Mohd. Faizal Awang (Keningau)* Herold Petrus (Keningau)*	R1	T	4
Note: P – Permanent Post T- Temporary Post			* - Working Full time on CAMP FMU 10		TOTAL	29

Table 7: Summary of Manpower for the CAMP Operation provided by the other MPCT Partners

Agency	No of Personal	Total
Sabah Wildlife Department	1	1
Sabah Parks	1	1
District Office		
• Tambunan	1	1
• Keningau	1	1
TOTAL		4

3.1.4 Existing vehicles under SFD

Table 8 describes the existing fourteen (14) Motorised vehicles for the CAMP and AWP implementation, comprising of eleventh (11) Motor Vehicles and one (1) Motorcycle. All are still in good running conditions.

Table 8: Vehicles Available for use for CAMP FMU 10 in 2019

Item	Vehicles	Unit	Registration Number	Utilisation Age (yr)	Assigned To
1	Toyota Fortuner	2	SAA5139N SAA5140N	14 14	DFO Keningau DFO Tambunan
2	Toyota Double Cab	9	SAB3930A SAB3927A SAB3934A SAB3937A SAB3924A SB3974B SB3965B SB6308B SB6309B	10 10 10 10 10 8 8 7 7	DFO Tambunan Office DFO Keningau Office DFO Tambunan Office DFO Tambunan Office DFO Tambunan Office FMU10 Operational Office FMU10 Operational Office DFO Keningau Office DFO Keningau Office
3	Motorcycle	1	SAB8659G	7	DFO Keningau Office
	Total	12			

3.1.5 Maintenance Costs of Vehicles

The total estimated cost for vehicles maintenance and fuels consumption for two (2) units Fortuners and nine (9) Double Cabs are **RM 180,000..** This ammount had been specifically set aside under the D11 Vote.

4. BUDGET AND EXPENDITURE

Table 10 describes the budgets and their sources as well as the amount approved for CAMP FMU 10 in 2019. The total approved sum for CAMP FMU 10 is **RM3.65 mil.** Under the Rancangan Malaysia Ke 11 (RMK11) & PPM fund, no funding was made available for any of FMU10's activities by the Federal government. The biggest fund for FMU10 was given by the Sabah State government under the RMK11 component. The others two funding were sourced from the Forest Rehabilitation Fund and Community Forestry Fund. All implementers are advised to manage the budget prudently, in view of the limited usage allowed under the various budgets. Payment of allowances to the other departmental partners in implementing their relevant strategies in 2019 will be done using the D11 budget.

Table 10: Budget Available for CAMP FMU 10 in 2019

Item	Budget Approved	Amount Available in Jan 2019 (RM)	Source of Fund
1	Restoration of TMFR, (RTMFR) 2016 K75	295,542.50	Community Forestry Fund (Award has been given to Sykt Jasa Muhibah in Nov 2017 by Headquarters)
2	Restoration of NTMFR, (RNTMFR) 2018 K75	350,000.00	Community Forestry Fund (Award has been given to Pemborong Nasuha in October 2018 by Headquarters)
3	Rehabilitation of Burnt Areas in FMU10 (RBAFMU10) D11	2,000,000.00	MoF (State)
4	Eco-Tourism Development (ECO) of NTMFR – D11	1,000,000.00	MoF (state)
	TOTAL	3,645,542.50	

5. FOREST CERTIFICATION

The FMU10 was issued with a Well Managed Forest Certification under the Certification Code: SCS- FM/ COC- 005062 and Trademark Licence Code: FSC-C 122511 in 2015 by the Forest Stewardship Council (FSC). The FSC Certificate is valid from **May 2015 to 10 May 2020**. This year the 4th Annual Surveillance Audit of FMU10 is envisaged to be done by the fourth quarter of 2019. A total budget of **RM 40,000** is set aside for this purpose.

The TWG for FMU10 decided on the two (2) Major CARs and four (4) Minor CARs under the 2018 audit finding need to be closed by January 2019. The task is given to Mr. Azman Said and continues by Mr Jafin A. Bakar as a new DFO Keningau assisted by Hj. Muhammad Razali Bin Hj.Mohammad, Mr. Suib Basri (DFO Tambunan), Miss. Amy Bosi, Clarice V. Allion, Marjjah Othman and Ricky Yolok. **Appendix 1** describes the major findings and actions done in 2018 while **Appendix 2** is describe new list of CAR need to address by the TWG in 2019. The tasks are given to Mr. Azman Said and continue by Mr Jafin A. Bakar as a new DFO Keningau beginning on 01.05.2019 assisted by Hj. Muhammad Razali Bin Hj. Mohammad (SFMO) and Mr. Suib Basri (DFO Tambunan).

6. IMPLEMENTATION OF STRATEGIES

The summary of the ten (10) Strategies and strategic actions for implementation and their respective expenditures in 2019 is further described under **Appendix 3**. **Appendix 4** describes the monitoring activities for the Revised Conservation Targets. All implementers are to take note of those two Appendices for their further guidance.

The details of each strategy are as follows:

6.1 Strategy 1: Boundary Demarcation and Maintenance

There are three (3) Forest Reserves that are managed under this strategy.

6.1.1 Nuluhon Trusmadi Forest Reserve

Maintenance of the boundaries would continue to be done in 2019 (**Table 11**). RH Wihimos Muis and PH Welbert Bitty will oversee the maintenance of these boundaries. The estimated boundary and maintenance cost of RM 50,000 will be procured from the D11 budget.

Table 11: Schedule of Boundary Maintenance in 2019

No	Scheduling	Frequency	Location	Distance
1	August - December	1	Part B	12 km
	TOTAL	1		12 km

6.1.2 Sungai Kiluyu Forest Reserve

The whole physical boundaries of the Forest Reserve had been completed since 2016. However, it was made to understand that endorsement and subsequent issuance of the Surveyed Certificate by the Lands and Survey Department for the

physical boundaries of the area was still pending. The point of contention for this delay given by the Authority was for the establishment of a buffer area measuring 5 meter width at some lengths of the surveyed boundary has yet to be done by SFD. The FRM Division to do relevant follow up with the Land and Survey Department to address these matters.

6.1.4 Nuluhon Trusmadi Forest Reserve (Extension)

The total distance to be demarcated was estimated to be approximately 7,000 m. At a rate of RM 5 per meters, a total cost of RM 342,750 is needed to provide. However, the budget allocation for this programme is not available so far.

6.2 Strategy 2: Surveillance and Monitoring Activities

This strategy is entrusted to Marjiah Othman in Tambunan, Hj. Muhd. Razali Bin Hj. Mohammad in Keningau, and Elrimio Emin for the Ranau area. The Field staff would be doing the ground patrolling. The **Borang Pemantauan FMU10 - 01** is to be used to record and logged all ground patrols and aerial surveillances in 2019. Quarterly Reports would be summarised by the respective mentioned Implementers for each areas. These Reports would be put up in the FMU10 Website accordingly.

6.2.1 Aerial Surveillance And Ground Patrolling

Aerial Surveillance activities will be carried out four (4) times a year (**Table 13**). Officer of MCEE Keningau will lead the aerial surveillance and he will be assisted by PH Welbert Bitty and RH Wihimos Muis of the Keningau Forestry District. Ground patrol will continue to be done by the relevant field staff. A total cost of RM 240,000 is estimated to be spent on the surveillance activities largely for the payment of allowances in 2019.

Table 13: Schedule of the Aerial Surveillance in 2019

Item	Quarter of 2018	Frequency
1	January - Mac	1 X
2	April – June	1 X
3	July - September	1 X
4	October - December	1 X
	TOTAL	4 X

6.3 Strategy 3: Forest Restoration

This strategy is monitored by DFO of Keningau. The maintenance of the planted areas at Compartment R16 and R19 in Apin-Apin Keningau (160 ha) is continued. New planting area at Sg. Atug (Southern Part) 20 hectare will be carried out.

The tasks will be implemented as listed bellows;

- i. Maintenance of earlier plantings of 2009 and 2010. This involves a total area of 160 ha. A total cost of **RM 295,655.20** is envisaged to be spent for these maintenance works. The contract awarded earlier to Syarikat Jasa Muhibbah in November 2017 by the Headquarters Sandakan for this particular work and it will be continued in 2019 (**Table 15**). Mr. Faizal Awang is given the task to monitor these works.

Table 15: Maintenance Schedules for 160 Ha the Planted Areas in FMU 10 in 2019 (Fund: RTMFR 2016 – K75)

No	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Supply seedlings	X	X	X									
2	Replanting activities			X	X	X	X	X					
3	Maintenance and fertilizing (3 times a				X				X				X

	year)													
4	Road maintenance			X	X	X	X							

- ii. To restore 20 ha of the burnt area at Sungai Atug. This area was damaged by fire in 2016. A total amount of **RM 128,000.00** is estimated to be spent (**Table 16**). The contract period is from 17.10.2018 until 16.12.2019 (14 months).
- iii. To Implement the six (6) major components for rehabilitation activities in 2019 (**Table 17**). All the relevant works that need to be contracted out will need to be awarded by April 2019.

Table 16: Estimated Expenditure for the New Planting of 20 ha at Sungai Atug Sook in 2019

No	Activity	RNTMFR Fund Estimated cost (RM)
1	Supply seedlings @RM7.00 x 6,000 seedlings	42,000
2	Site preparation & planting @RM1,500.00/ha	30,000
3	Maintenance & fertilizing @ RM350/ha x 4 times/yr	56,000
TOTAL		128,000

Table 17: Estimated Expenditure for the 1,160 ha Planted Areas and other Strategies Implementation in 2019 (RBA FMU10)

No	Activity	D11 Fund (RBA) Estimated cost (RM)
1	Planting Operation including Road maintenance ➤ Planting activities in 50ha.	300,000
2	Maintenance of Planted Areas ➤ Gap planting and maintenance planted area - 20 ha including fertilizing activity.	100,000
3	Nursery Maintenance ➤ Seedling and fertilizers supply.	100,000
4	Boundary Maintenance and other Equipments	170,000
4.1	Boundary Maintenance	50,000
4.2	ICT Maintenance including Toners	60,000
4.3	Safety Equipments	60,000
5	Cost of Certification and Implementation of the other Strategies	1,280,000
5.1	Surveillance Audit FSC	40,000
5.2	Awareness Program / Community Engagement	80,000
5.3	Trainings	70,000
5.4	Vehicles maintenance	120,000
5.5	Keningau (Relevant Infrastructure maintenance)	650,000
5.6	Ranau (Relevant Infrastructure maintenance)	20,000
5.7	POL	60,000
5.8	Surveillance and monitoring activities (allowances)	240,000
6	Aerial Survey And Mapping	50,000
6.1	Purchase of Drone, Camera trap and CCTV	50,000
	TOTAL	2,000,000

6.3.2 Monitoring of the Permanent Sample Plots (PSPs)

A total of three (3) of yield plots were established by FRC in October 2010 and another one (1) of new yield plot in July 2013. The assessment will be conducted one time for every two years and will assess by FRC.

6.4 Strategy 4: Management of Eco Tourism Activities

The main objective of this strategy is to manage the visitation to Mount Trusmadi through the three (3) climbing routes available, namely, the Wayaan Kaingaran in Tambunan, Wayaan Mastan in Apin – Apin Keningau and Wayaan Mannan in Sinua, Sook. A Committee to deliberate any recommendations to the Chief Conservator of Forests for the Tourism cum Communities Engagement has been established. **Table 18** describes the composition of the Committee.

Table 18: Composition of the Tourism and Communities Engagement Committee for FMU10

No	Personal	Responsibility
1	Head SFM Div. Musa Salleh	Chairman
2	SFMO Hj.Muhd. Razali Bin Hj.Mohammad	Secretary
3	DFO Keningau Jafin A. Bakar	Member
4	DFO Tambunan Suib Basri	Member
5	Officer SFM Div. Hamidah Bujing	Member
6	ADFO Keningau Clarice V. Alliun	Member
7	ADFO Tambunan Marrjjah Othman	Member

SFD will continue to train the relevant local communities around FMU10 to be Tourist guides / Mountaine Ranger. A total budget of RM20,000.00 is allotted to be spent.

6.5 Strategy 5: Upgrading and Maintenance of Relevant Infrastructures and Website

Implementation of this strategy was shouldered jointly by DFO Jafin A. Bakar, DFO Suib Basri, SFMO Hj.Muhd. Razali B. Hj. Mohammad, ADFO Elrimeo Emin and ADFO Marjjah Othman. The task of managing and updating the FMU10 Conservation Area website will be assisted by Azman Othman of Head, ICT Division.

Table 20 describes the related activities planned for 2019. All the relevant work to be contracted out in stages beginning in month of March.

Table 20: List of Upgrading and Maintenance Activities in FMU 10 In 2019

Item	Activities & Budget Allocation	Location	Month											
			1	2	3	4	5	6	7	8	9	10	11	12
1	Maintenance of the Ali Hassan gravelled road in Apin-Apin (21 KM) – RM250,000.00	Keningau						X	X	X	X			
2	Upgrading of the Apin Apin Checking Station - RM250,000.00	Keningau							X	X	X	X	X	
3	To built Staf Quarters at Apin Apin Station - RM250,000.00	Keningau							X	X	X	X	X	
4	Upgrading of the Eco Tourism facilities at Pagadadan Ranger Camp - RM250,000.00	Keningau								X	X	X	X	
5	To provide gravel path at Climbing starting point in Pagadadan Ranger Camp – RM30,375.00	Keningau						X	X					
6.	To develop wild orchid garden – RM120,000.00	Keningau									X	X	X	

7.	Development of facilities for wild flowers and moss. – RM150,000.00	Keningau								X	X	X		
8.	Maintenance of the Wayaan Kaingaran gravelled road – RM150,000.00	Tambunan							X	X	X	X	X	
9.	Other maintenances works and activities – RM1,549,625.00	Keningau			X	X	X	X	X	X	X	X	X	

6.6 Strategy 6: Communities Engagement

This strategy is entrusted to DFO Jafin A. Bakar with the assistance from ADFO Clarice VA, Ricky Yolok, ADFO Marjiah Othman, ADFO Elrimeo and the SFM Division. A Committee as describes in **Table 21** will be tasked to submit relevant recommendations for implementation to the Chief Conservator of Forests.

A final report on the Stakeholders Consultation which was held on 18th July 2017 will be completed by DFO Jafin Abu Bakar and submitted to Chief Conservator of Forests (CCF) by the end of June 2019. This report is also including the recommendation in managing Encroachments as Per Cabinet's directive.

Beside that, Communities Meetings and Monitoring of HCV 5 Area and other activities including trainings as describes in **Table 21**. A total cost of **RM 30,000.00** is envisaged to be spent for these activities.

Table 21: Schedule of the Communities Meetings for FMU10 in 2019

No	Location	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Keningau							X			X		
2	Sook							X			X		
3	Tambunan							X			X		

6.7 Strategy 7: Wildlifes Surveys in Ulu Rompon and Ulu Pangas

This strategy is headed by RH Wihimos Muis. He will be assisted by PH Welbert. The site for this activity is located along the Jalan Ali Hasan, Apin Apin, Keningau. It stretches from KM 6 (Jambatan Mamat) up to Pangandadan Rangers, at KM 43, which also the starting point for climbing Mt Trusmadi through the Wayaan Mastan.

In this strategy, the morning drive Wildlife Surveys or sightings will be used for five (5) days period every quarterly. The Borang Pemantauan FMU 10-03 is used to record any ground and avian wildlife species sighted.

A total of five (5) wildlife species and evian were sighted via this Methodology in 2018 (Table 23).

Table 23: Lists of Wildlife Species Identified via Morning Drive Sighting in 2018

No	Species
1	<i>Muntiacus hermaphroditus</i> (Kijang)
2	<i>Cervus unicolor</i> (Payau)
3	<i>Sus barbatus</i> (Babi hutan)
4	<i>Macaca fascicularis</i> (Kera)
5	<i>Buceros rhinoceros</i> (Enggang)

6.8 Strategy 8: Survey of Hornbills

The field inventory activities would be not conducted this year.

6.9 Strategy 9: Conservation Awareness Programmes

The objective of the Awareness Programme was to provide information and to educate the general public of Tambunan, Keningau, Sook and Ranau on the importance of conserving forested areas and general biodiversity. The task was headed by Clarice V. Alliu for the Keningau and Sook Forestry District, Marjiah Othman for the Tambunan Forestry District and Elimieo Emin of the Ranau Forestry District.

A total of four (4) Kampung are selected for the awareness programme in Keningau and Tambunan (**Table 27**). A total cost of RM 50,000 is estimated for this activity.

As same as previous year, the awareness programme is including on talks regarding the management of FMU10, ecotourism activities were given by the respective implementers. Additional talk on the conservation and wildlife protection were given by Keningau Sabah Wildlife Department officer. Each of

these programs culminated with a tree plantings at the vicinity of the balai rayas respectively by the participants.

This strategy is to be implemented by Clarice V. Alliu for Keningau and Sook as well as Marijah Othman for Tambunan. For the Ranau Forestry District has yet no programme to be conducted in 2019.

Table 27: Lists of Activities for Awareness Programme in 2019

Item	Name of Kampung	District	Month												
			1	2	3	4	5	6	7	8	9	10	11	12	
1	Lalapakon	Sook									X				
2	Seselungan	Sook											X		
3	Pononoburan	Tambunan									X				
4	Ulu Monsok	Tambunan											X		

6.10 Strategy 10: Managing Scientific Study

Since 2017, there are three (3) research activities in the FMU10 have been carried out and approved by the Chief Conservator of Forests (**Table 28**). For year 2019, one (1) research activity will be conducted by ITBC, UMS.

Table 28: The Lists of Researchers and Research Activities in FMU10 since 2017

Item	Date	Institution	Researchers	Research Focus
1	November 2016 – November 2018	Institute for Tropical Biology and Conservation Universiti Malaysia Sabah	Foo She Fui	Edible and Poisonous Wild Mushrooms: Germplasms for Sustainable Use and Conservation in Sabah
2	November 2016 – November 2017	Institute for Tropical Biology and Conservation Universiti Malaysia Sabah,	Lee Yee Jun; Woo Siew Yin; Lim Yee Kei; and Arivissa Arif	Edible and Poisonous Wild Mushrooms: Germplasms for Sustainable Use and Conservation in Sabah

3	November 2016 – October 2017	Institute for Tropical Biology and Conservation Universiti Malaysia Sabah,	Ms. Naazira binti Awang Ismail	Kepelbagaian Lumut Jati Epifit Mengikuti Kecerunan Altitud di Denai Kaingaran, Gunung Trus Madi
4	June 2019 – Jun 2020	Institute for Tropical Biology and Conservation Universiti Malaysia Sabah	Hoo Pui Kiat	The Phylogeny and Distribution Patterns of the Nepenthaceae in Sabah, Malaysia.

The aim of this strategy is to monitor the approved research by the Chief Conservator of Forests. To date the TWG has yet to receive the relevant papers from those researchers as well as the various DFOs. Thus, all the researchers highlighted in **Table 28** will be reminded to submit their work to the TWG as soon as possible. All relevant reports would be summarised in the FMU10 website. Due to the shortage of funding as well as man power, the scientific expeditions in the Nuluhon Trusmadi Forest Reserve (Extension) for the Ranau area has been put off.

7. CONCLUSION

In regard of the Forest certification agenda, the TWG for FMU10 will continue focus on the findings of the 3rd Annual Surveillance auditing by FSC last year in 2018. A compliance report will be prepared by Jafin A. Bakar, the DFO of Keningau for discussion by the TWG prior to the next 4th Surveillance Audit, envisaged to be held in November 2019.

It is imperative that existing cooperation and commitments of all of staff and implementers be executed to the maximum by the TWG. A few series of operational meeting should be done to resolve any problems or deviations that may arise from such cooperations and plans. A total of **RM 3,423,655.20** is envisaged to be spent from various sources in implementing the AWP for FMU10 in 2019.

Appendix 1: The List of Corrective Action Request (CAR) and Observations from the 3rd Annual Surveillance Audits of FMU10 in 2018.

N O	FSC INDICATOR	CORRECTIVE ACTION REQUEST	ACTION	REMARKS
1	1.5.1 (MINOR)	Anl express policy statement on protection of FMU area from illegal harvesting, settlement and other unauthorized activities in FMP (CAMP).	Done	Closed in 2018
2	1.6.1 (MINOR)	A statement on the commitment to FSC Principles and Criteria shall be written in the FMP (CAMP): Tambunan Conservation Area Management Plan Version 2: 01.01.2017 to 31.12.2026.	Done	Closed in 2018
3.	2.3.2 (OBS)	The SOP on Procedure Communication Dispute could be improved with addition of the procedures that had been initiated by the FMU for resolution. The SOP could be clearly written with specific mechanism for the process of resolution of grievances or disputes over tenure claims and use rights.	Done	Closed in 2018
4	3.3.2 (MINOR)	The FMP shall include an express written policy for identification and protection of sites with potential special cultural, ecological, economic or religious significance to local communities.	Done	Closed in 2018
5	4.1.1 (MINOR)	An express provision demonstrating a commitment to hiring and contracting locally shall be presented in the FMP (CAMP).	Done	Closed in 2018
6	4.2.1 (MINOR)	The Safety and Health Committee meetings shall be conducted as specified under Department of Safety and Health specification.	Done	Closed in 2018
7	4.2.6 (MINOR)	Safety records maintained by the Forest Manager shall include of the contractors involved with silviculture treatment and rehabilitation of degraded area.	Done	Closed in 2018
8	4.3.3 (MINOR)	Procedure shall be clearly written with specific mechanism for the process of resolution of grievance for staff / stakeholders / communities.	Done	Closed in 2018
9	4.4.1 (MINOR)	The revised FMP (CAMP) shall include the update data collected from the field	Done	Closed in 2018

		investigation conducted and the update SIA.		
10	4.5.3 (MINOR)	<p>A documented process on fair compensation in the case of loss or damage affecting legal customary rights, property, resources or livelihoods of local people shall be prepared.</p> <p>➤ There was no documented process on fair compensation in the case of loss or damage affecting legal customary rights, property, resources or livelihood of local people.</p>	TWG	Upgraded to Major CAR
11	6.6.1 (MINOR)	A list of chemical pesticides, the quantity used, and the area of application shall be maintained.	Done	Closed in 2018
12	9.2.2 (MINOR)	<p>Pertinent stakeholders consulted shall include relevant social NGOs and research agencies.</p> <p>➤ The list of stakeholders presented in the web page dated 4 October 2018 did not include relevant social NGOs.</p>	TWG	Upgraded to Major CAR

Appendix 2: The New List of Corrective Action Request (CAR) and Observations from the 3rd Annual Surveillance Audits of FMU10 in 2018 that are need to be closed for the Forest Management Certification Initiative in 2019.

NO	FSC INDICATOR	NON-CONFORMITY	ACTION	REMARKS
1	4.2.5 (MINOR)	Generator used in the forest checking station at Apin Apin was not evaluated regularly by qualified staff and the fire extinguishers at the Tambunan District Forestry Office had not been maintained since 2015. Records on inspection of PPE were not available.	TWG	
2	7.1.1 (MINOR)	The Draft CAMP Ver.2 examined during the evaluation did not include relevant elements from sub-criteria (a) through (i) of criterion 7.1. Provisions for monitoring of forest growth and dynamics and environmental safeguard based on environmental assessments were not written.	TWG	
3	7.4.3 (MINOR)	The public summary in the web page http://www.forest.sabah.gov.my/FMU10/profile/about/public-statement had not provided all information on the primary elements of the plan, including those enumerated in Criterion 7.1.	TWG	
4	9.3.1 (MINOR)	The management plan and the public summary had contained a section pertaining to HCV areas found within the defined forest area. Section 1.1.5 HCVF in the draft CAMP Ver.2 examined did not have maps of HCV, site identified, management descriptions and proposed measurable indicators for monitoring HCV sites. The elements were presented only in the public summary.	TWG	
5	4.5.3 (MAJOR)	During this evaluation there were no established procedures for providing fair compensation where forest operations could lead to damages or loss of properties, resources or livelihood of local communities.	TWG	This was a Minor CAR 2017.10 that was upgraded to Major CAR.
6	9.2.2	Pertinent stakeholders consulted shall include relevant social NGOs and research agencies.	TWG	This was a Minor CAR 2017.12 that was upgraded to Major CAR

Appendix 3: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2019 for CAMP FMU 10 (continuation)

No	Strategy	Strategic actions	Expenditure (RM)	Quarter 1			Quarter 2			Quarter 3			Quarter 4			
				1	2	3	4	5	6	7	8	9	10	11	12	
3	Forest Restoration	6. Rehabilitation of Degraded / Burnt Areas including planting roads maintenance, constructions and Yield Plots reporting and updating a) Maintenance planted area – R16 & R19 (160ha)	740,000.00				X	X	X	X	X	X	X	X	X	X
		b) Planting at Southern part (Sg. Atug) – 20ha	295,655.20			X				X				X		X
			128,000.00			X				X				X		X
4	Management of Eco Tourism Activities	7. Management of climbing activities (including trainings) to Mt Trus Madi Through Wayaan Kaingaran, Mastan and Mannan	20,000				X	X	X	X	X	X	X	X	X	X
		8. Quarterly Reporting and updating of N X <i>trusmadiensis</i> plots (HCV1.3) at summit	-			X	X	X	X	X	X	X	X	X	X	X

Appendix 3: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2018 for CAMP FMU 10(continuation)

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
5	Upgrading And Maintenance Of Relevant Infrastructures And Website	9. Upgrading and Maintenance of Facilities For Wayaan Tambunan, Apin-Apin and Sinua and other Infrastructures	1,600,000.00	X	X	X	X	X	X	X	X	X	X	X	X
6	Communities Engagement	10. Upgrading of ICT Equipments, trainings, safety and Website maintenance 11. Develop Recommendation in managing Encroachments as Cabinet's directive and Implement decision after stakeholders consultation	30,000.00		X			X	X	X	X			X	
7	Wildlifes Surveys In Ulu Rompon And Ulu Pangas	12. Communities Meetings and Monitoring of HCV 5 Area and other activities including trainings 13. Morning Drive Sighting and Report every Quarterly to TWG and updating on website 14. Develop relevant SOP and trainings	50,000.00						X	X			X		X
8	Survey of Hornbills	15. Field Inventory and Analysis and updating on website	-												

Appendix 3: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2018 for CAMP FMU 10 (continuation)

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
9	Conservation Awareness Programmes	16. Awareness/Educating Villagers on Conservation Issues, Reporting and updating on website	50,000.00								X		X		
		17. Develop SOP and report and update on website	-												
10	Managing Scientific Study	18. Approved Research by CCF to be monitored by DFO and reported and summarised in website												X	
A	Surveillance Audit	Gaps audited in the Management of FMU10 according to the P & C of FSC	40,000.00								X	X	X		
B	Vehicles Maintenance and fuels (e-POL)		180,000.00	X	X	X	X	X	X	X	X	X	X	X	X
		GRAND TOTAL	3,423,655.20												

**Appendix 4: Summary of Monitoring Activities to be done in 2019 under
CAMP FMU 10**

Item	Target	Indicator	Methodology	Frequency	Responsibility
1	UMDF	Demarcated Forest Boundaries: <ul style="list-style-type: none"> • No Encroachments • No Illegal Timber Extractions • No Fire Occurrence • No wildlife Poaching • No enlargement of encroached areas by communities Macro view	Remote sensing Report: FMU10	Tri Annually	K(FRM)
2		Demarcated Forest Boundaries: <ul style="list-style-type: none"> • No Encroachments • No Illegal Timber Extractions • No Fire Occurrence • No wildlife Poaching • No enlargement of encroached areas by communities Micro view	BORANG FMU10-1 (Borang Pemantauan/ Rondaan)	Monthly Surveillance	Field Staff
3		Burnt Area Planted and Restored	Laporan Restorasi	Quarterly for Planted Acreage and Area Maintained	Field Staff
4		Growth and Yield Plots	Growth Report on the PSPs	Bi-Annually	FRC Research Team

**Appendix 4: Summary of Monitoring Activities to be done in 2019 under
CAMP FMU 10 (continuation)**

Item	Target	Indicator	Methodology	Frequency	Responsibility
5	UMDF	Wildlife Surveys, HCV 1.3 and HCV 5 areas monitored	BORANG FMU10 - 3 and BORANG FMU10 - 4	Quarterly	Field Staff
6	Summit Scrub	No Poaching of Flora and Fauna	BORANG FMU10 - 2	All ascents and descents by Tourists: Monthly (Summary)	Field Staff
7	Hornbills	Population density/ Species Distributions of Hornbills	Survey Reports	After each Survey	Sabah Parks Team