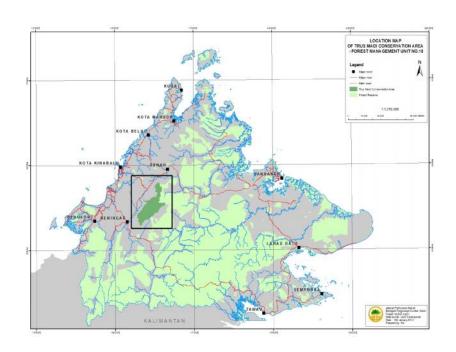
# FOREST MANAGEMENT UNIT 10 (TAMBUNAN)

(Trusmadi Forest Reserve (Class 1) and Sg. Kiluyu Forest Reserve (Class 1))

### **ANNUAL WORK PLAN 2016**



Prepared by the Management Planning Core Team (MPCT) for FMU 10



**Sabah Forest Department** 

## ANNUAL WORK PLAN 2016

## FOREST MANAGEMENT UNIT 10 (TAMBUNAN)

(TAMBUNAN)
(TRUSMADI FOREST RESERVE (CLASS 1))
AND
(SG. KILUYU FOREST RESERVE (CLASS 1))

Approved by:	
(DATUK SAM MANNAN)	
DIRECTOR	
SABAH FORESTRY DEPARTMENT	
DATE:	

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#### 1. INTRODUCTION

This is the fourth Annual Work Plan (AWP) for FMU 10 since the revision of the Conservation Area Management Plan (CAMP) in 2013. It describes the twelve (12) strategies, the 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 2016. It also serves as the guiding document for the field implementers and the Management Planning Core Team (MPCT) in carrying out their respective duties and responsibilities in conserving and assessing the success or impact of the conservation efforts as prescribed by the approved Revised CAMP for FMU10 for 2016.

#### 2. FMU 10 (TAMBUNAN)

FMU10 comprises of the Nuluhon Trusmadi Forest Reserve (Class 1) with a total area of 74,736 ha and Sg. Kiluyu Forest Reserve (Class 1) measuring 1,065 ha. The total area of FMU 10 (Tambunan) is therefore 75,801 ha. The Keningau Forestry District administered 47,772 ha of the FMU10 area, while the remaining 28,029 ha are within the Tambunan Forestry District's jurisdiction. The FMU 10 is bordered by three (3) state administrative districts and a sub-district as well as three (3) forestry districts, namely, Tambunan on the west, Keningau on the south and east, and Ranau on the north.

#### 2.1 Management Zones

The Seven (7) Management Zones identified for FMU 10 to cater for the different usage and management prescriptions for the conservations of the Four (4) identified targets are still relevant for 2016 (**Table 1**). Six (6) of these zones are in the FMU 10 area, and one (1) management zone is outside of the FMU 10 area. The Management Zones identified in FMU 10 are as follows:

Table 1: Management Zones in FMU 10

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.
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 Rehabilitation Area covering an approximate area of 22,000 ha of largely burnt and encroached areas. A total area of 1,060 ha had been planted and maintained so far.
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 the three (3) climbing trails, namely Wayaan Kaingaran, Wayaan Mastan and Wayaan Mannan, 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 under an Annual Occupational Permit (OP) covering an area of less than 10.63 ha.
Zone 7:	Community Woodlots Area on a state land area on the north west outside FMU 10, particularly the Kaingaran area that may extend not more than 4,000 ha.

#### 2.2 Objectives

The initial objective of delineating the FMU 10 as a Forest Conservation Area was to allow for the achievement of certain goals in conserving the Four (4) conservation targets. Due to the retirement of Entomologist Chey Vun Khen, the conservation target and its related strategy for the Rajah Brooke Birdwings will not be implemented in 2016 (**Table 2**). Being a Class 1 Forest Reserve, commercial timber harvesting or large scale collections of any terrestrial as well as aquatic flora and fauna from FMU10 are prohibited. The objectives for 2016 are set as follows:

- 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 1,060 ha of the rehabilitated areas 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, car park, checkpoint, resting facilities and nursery in Management Zones 1, 3, 4, 5 and 6 that will allow for conservation, controlled hunting, ecotourism including mountain climbing and surveillance activities to be conducted or enhanced.
- V) Physical demarcation of the remaining forest boundaries at Part C of the Nuluhon Trusmadi Forest Reserve as well as the maintenance of these boundaries including that in the Sungai Kiluyu 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.
  - Surveying and the setting up of controlled hunting area in Management Zone 4.
  - Surveying and the setting up of community woodlots area in Management Zone 7.
- VII) Compliance of the findings of the annual surveillance audit in 2016 for Forest Certification by FSC in all FMU10 areas.

Table 2: Conservation Targets and Goals for FMU10 in 2016

Conservation Targets	Conservation Goals
Upland Mixed Dipterocarp Forest (UMDF)	Restoration of the fire degraded and encroached areas with native species
	To ensure zero occurrence of fire, encroachment, poaching, and illegal timber extraction in the habitat
Summit Scrub (SS)	To ensure minimal Impact from active Eco-Tourism activities at the Summit from the three (3) Climbing Routes, namely, Wayaan Kaingaran (Tambunan), Wayaan Mastan (Apin-Apin) and Wayaan Mannan (Sinua)
Hornbills	Determination of the group's distribution and identification of the dominant species by 2018

#### 3. OPERATIONAL STRUCTURE AND BUDGET

#### 3.1 Operational Responsibilities

The task to coordinate and facilitate the execution of this AWP is again entrusted to Deputy Director (Management), Rahim Sulaiman, as the Chief Implementer / Chairman for the MPCT for CAMP FMU 10. The main field implementers of the CAMP in 2016 are the District Forestry Officers (DFO) of Tambunan and Keningau. 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. **Figure 1** describes the Organisational Structure in implementing the Revised CAMP and the AWP.

A total of five (5) personals retired in 2015 (**Table 3**). Two (2) were staff from the FMU10 Operational Office, namely Hj Mohd Nooh Jiran and Jasni Abdullah. The reminders were from the DFO Tambunan's office, namely Julius P Indu and James Gasidah and Marinus Kimpalan from the DFO Keningau's office. Two new officers, namely Ricky Yolok and Clarice Vitalis Aliun were transferred to the FMU10 Operational Office in early 2016. **Table (4)** summarises the list of staff and their respective responsibilities assigned to implement the strategies in 2016.

Table 3: The List of Retired Staff in 2015

No	Name	Designation	Date of Retirement
1	Hj. Mohammad Nooh B. Hj Mohammad	Pemelihara Hutan	26 <sup>th</sup> November 2015
	Jiran	G41	
2	Julius Peter Indu	Pen.Pemelihara	27 <sup>th</sup> December 2015
		Hutan Kanan G32	
3	Jasni Abdullah	Pen.Pemelihara	07 th July 2015
		Hutan G27	
4	James Gasidah	Renjer Hutan G22	15 th November 2015
5	Marinus Bin Kumpulan	Driver R 03	18 th April 2015

Table 4: Responsibilities in Implementing the Revised Conservation Strategies for FMU 10

No	CONSERVATION STRATEGIES	IMPLEMENTERS
1	Boundaries Demarcation And Maintenance	K(FRM) Of Headquarters (Abtah Deri and Alexander Phan) Assisted By DFO Keningau And Tambunan
2	Conduct Surveillance Activities	DFO Keningau And Tambunan Assisted by Bonaventure Yampai, Jafin A Bakar and Injiksin Hj Usip of MCEE Keningau
3	Forest Restoration	DD (MGT) And DFO Keningau Assisted by Jafin A Bakar
4	Formulate Suitable Visitation Mechanism And Flora/Fauna Collection Procedures (including Forest Certification)	Committee Headed By DD (MGT) Assisted by Afifuddin Jadin as the Secretariat
5	Upgrading And Maintenance Of Relevant Infrastructure	DFO Keningau And Tambunan Assisted by Bonaventure Yampai, Jafin A Bakar, Awangku Effendy Pg Mahmud, and Afifuddin Jadin
Activities Awangku Effendy I		DFO Keningau And Tambunan Assisted by Awangku Effendy Pg Mahmud, Jafin A Bakar, Clarice VA, Ricky Yolok and Afifuddin Jadin,
7	Develop And Implement Controlled Hunting Plan In Ulu Rompon And Ulu Pangas	DFO Keningau assisted by Jafin A Bakar and Faizal Basirin and Sabah Wildlife Department
8	Establish Community Woodlots In Stateland Area Near Kg. Kaingaran In Tambunan Adjoining FMU 10 Area	DFO Tambunan
9	Understanding Of The Target Species Through: a) Inventory Of Hornbills By 2018	Alim Biun of Sabah Parks
10	Implement Relevant Conservation Awareness Programmes and Website Maintenance	DFO Keningau And Tambunan Assisted by Clarice VA, Marjjah Othman; Afifuddin Jadin and Afendy Suraip of FRC Sepilok
11	Scientific/Biodiversity Study	Team leads by FRC Sepilok coordinated by John Sugau and Andi Maryani Mustapeng
12	Collaborate With Adjacent Landowners At Relevant Boundaries Of FMU 10	DFO Keningau And Tambunan Assisted by Afifuddin Jadin and Ricky Yolok
*	Compliance Documentation of Audit Surveillance 2015 Findings	Afifuddin Jadin assisted by Amy Bosi, Jafin A Bakar, Awangku Effendy Pg Mahmud, Clarice VA, Marjah Othman and Ricky Yolok

CHIEF IMPLEMENTOR
RAHIM SULAIMAN
DEPUTY DIRECTOR (MANAGEMENT) CECILIA GAWID MANAGEMENT PLANNING CORE TEAM (H.Q SANDAKAN) (MPCT) COMMITTEE IMPLEMENTER IMPLEMENTER RESOURCE PERSON GROUP MEMBER (OUTSIDE) (INSIDE) BIODIVERSITY PLANNER & IMPLEMENTER ANUAR MOHAMAD (FOREST BIODIVERSITY UNIT HORNBILS VER & IMPLEME FMU10 PLANNER & FORESTRY JAFIN ABU BAKAR (I) SUIB BASRI (II) SFM OFFICER I & II (KENINGAU) AZMAN SAID IT FORESTRY OFFICER (KENINGAL) COMMUNITY AWANGKU EFFENDY PG MAHNUD SALLEH INTANG BENEDICT JANI (BABAH PARK DISTRICT FORESTRY OFFICER (H.Q SANDAKAN) (TAMBUNAN) ECO-TÓLIRISM ONAVENTURE YAMPAI AOFO 2 HAJI AFIFUDDIN HAJI JADIN (KENINGALI OFFICE) (ADMIN) AMMAD SHAHF SURIM MARJJAH OTHMAN STEPHENIE GRACE JULIUS FIELD CO-ORDINATOR SEM SUB-UNIT RESTORASI TRUSMADI CLARICE VITALIS ALLIUN (TAMBUNAN) HILDI SUNGOT NICOLAS BOTULIK DIUS BASIL HYALLY YAHYA WIHIMUS MUIS(K) WELBERT BITTY (KENINGALI OFFICE) DAUD KARDI GENERAL WORKER WASININ WASIN (GATE) AFENDY SURAIP BUB- UNIT PEMBURUAN EMINORIANNER & FORESTRY MOHD FAIZAL BASIRIN (K) BUB-UNIT EKO-RICKY YOLOK ARTHUR NICHOLAS (KENINGALI OFFICE) (STATE LEVEL) (LOCAL) STAKEHOLDERS MOF UPEN PPD RANAU SABINDO ESTATE STB MOTAC BORNEO JUNGLE MCEE KENINGAU

EPD

**KPKAS** 

880

ORGANIZATION CHART FOR IMPLEMENTING

THE CONSERVATION AREA MANAGEMENT PLAN FOREST MANAGEMENT UNIT NO.10 (FMU10) (TAMBUNAN)

WWF

L&8

KEKAL MEWAH

UPDATE: MARCH 2016

Figure 1: Organisational Structure for Implementing the **Revised CAMP FMU10** 

GIRL

PPD SOOK

**BORNION TIMBER** 

PELANCONO PENDALAMAN ATAS

SABAH

L10.8 800K

23 VILLAGES

BHD

#### 3.1.1 Existing Manpower under SFD

The total available manpower under SFD is thirty two (32) personnel. However, only twenty six (26) personnel are considered working fulltime in implementing the CAMP. The other six (6) personnel are part time implementers of the CAMP. **Table 5** summarises the manpower involved in implementing the CAMP under SFD.

Table 5: Summary of SFD Manpower for the CAMP Operation in 2016

No	Designation	Personal	Grade	Status	Total	
1	Deputy Director (Management) (DD) MGT	Rahim Sulaiman	Q54	Р	1	
2	Senior Research Officer (SRO)	Hj. Anuar Mohd John Baptist Sugau	Q54	Р	2	
3	Assistant Conservator of Forests (ACF)	Azman Said* (DFO Keningau) Jafin A Bakar* (SFMO) AgKu Effendy Pg Mahmud (FMU10)* Abtah Deri (FRM Officer)	G41	Р	4	
4	Pen.Pem.Hutan Kanan	Afifuddin Jadin (FMU10)*	G32	P	1	
5	Research Officer	Andi Maryani Mustapeng	Q41	P	1	
6	Pen.Pem.Hutan Kanan	Salleh Intang* (DFO Tambunan) Amy Bosi (FSP) Bonaventure Yampai * (ADFO Tambunan) Clarice Vitalis Aliun* (FMU10)	G27	Р	4	
7	RHK	Marjjah Othman* (ADFO Tambunan) Ricky Yolok* (FMU10)	G22	Р	1	
8	Renjer Hutan(RH)	Wihimos Muis (Kngu)* Ahmahdiah Awg Damit (Keningu)*	Wihimos Muis (Kngu)* G17		2	
9	Pengawas Hutan Kanan (PHK)	Daud Kardi(Kngu)*	G14	P	1	
10	Pengawas Hutan	Edmund Attiu(Tambunan)* Hyally Yahya (Tambunan)* Faizal Bin Basirin (Keningau)* Chin Kae Sen (Keningau)* Athur Nicholas (Keningau)* Welbert Bitty (Keningau)*	G11	Р	6	
11	Research Assistant	Nasrah Yusof	Q17	P	1	
12	Perakaunan Perkeranian	Sharil Surim* Stephenie Grace Julius*	W17 R1	P T	1 1	
13	Driver	Hildi Sungot (Tambunan)* Nicholas Batulik (Tambunan)*	R3	Р	2	
14	PRA	Dius Basil (Tambunan)* Lawrence Jumil(Tambunan)* R1 Wasinin Wasi (Keningau)* Sidi Laimin (Keningau)*		Т	4	
	Note: P – Permanent Post T- Temporary Post	* - Working Full time on CAMP FMU 10 (21 personnel)		TOTAL	32	

#### 3.1.2 Manpower outside SFD

A total of five (5) personnel are available from the various government agencies (**Table 6**). The agencies involved are the Sabah Wildlife Department (SWD), Sabah Parks (SP), Computer Services Department (JPKN), Public Works Department (PWD) 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.

Table 6: Summary of Manpower for the CAMP Operation provided by other MPCT Partners

Agency	No of Personal	Total
	reisonai	
Sabah Wildlife Department	1	1
Sabah Parks	1	1
Public Works Department	1	1
District Office		
Tambunan	1	1
Keningau	1	1
	TOTAL	5

#### 3.1.3 Existing vehicles under SFD

**Table 7** describes the existing fourteen (14) Motorised vehicles for the CAMP implementation, comprising of twelve (12) Motor Vehicles and two (2) Motorcycles. All are still in good running conditions.

Table 7: Vehicles Available for use for CAMP FMU 10 in 2016

Item	Vehicles	Unit	Registration	Utilisation Age	Assigned To
			Number	(yr)	· ·
1	Toyota Fortuner	3	SAA 2008R	10	DD (MGT)
			SAA5139N	11	DFO Keningau
			SAA5140N	11	DFO Tambunan
2	Toyota Double Cab	9	SAB3930A	7	DFO Tambunan Office
			SAB3927A	7	DFO Keningau Office
			SAB3934A	7	DFO Tambunan Office
			SAB3937A	7	DFO Tambunan Office
			SAB3924A	7	DFO Tambunan Office
			SB3974B		
			SB3965B	5	FMU10 Operational Office
			SB6308B	5	FMU10 Operational Office
			SB6309B	4	DFO Keningau Office
				4	DFO Keningau Office
3	Motorcycle	2	SAB8661G	4	DFO Keningau Office
	-		SAB8659G	4	DFO Keningau Office
	Total	14			

#### 3.1.4 Maintenance Costs of Vehicles

The total estimated cost for vehicles maintenance is expected to be **RM 471, 210** as indicated in **Table 7.1** and **Table 7.2** respectively. A sum of RM35, 000 had been specifically set aside under the D11 Vote for fuels.

Table 7.1: Estimated cost for Fuels and maintenance of the Fortuner vehicles

No	Item	Frequencies/yr	Quantity Per vehicle	Unit of vehicle	Unit Cost (RM)	Total Cost (RM)
1	Diesel	300 working days	15 litres/day	3	2.50	33,750
2	General services	30,000 km/yr	5 services/yr	3	600/service	9,000
3	Tyres	2 tyre change/year	8 tyres/year	3	630/tyre	15,120
4	Miscellaneous parts and maintenance	as required	-	3	5,000.00	15,000
					TOTAL	72,870

Table 7.2: Estimated cost for Fuels and maintenance of the Double Cab vehicles

No	Item	Frequencies/yr	Quantity Per vehicle	Unit of vehicle	Unit Cost (RM)	Total Cost (RM)
1	Diesel	300 working days	30 litres/day	9	2.50	202,500
2	General services	50,000 km/yr	7 services/yr	9	600/service	37,800
3	Tyres	3 tyre change/year	12 tyres/year	9	630/tyre	68,040
4	Miscellaneous parts and maintenance	as required	-	9	10,000.00	90,000
					TOTAL	398,340

#### 4. BUDGET AND EXPENDITURE IN 2016

**Table 8** describes the budgets and their sources as well as the amount approved for CAMP FMU 10 in 2016. The total approved sum for CAMP FMU 10 is **RM 1,936,200.** Under the Rancangan Malaysia Ke 11 (RMK11), no funding was made available for any of FMU10's activities by the Federal government. The biggest fund for was given by the Sabah State government under the RMK11. The others two funding were sourced from the Forest rehabilitation 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 2016 will be done using the K75 budget and D11.

Table 8: Budget Available for CAMP FMU 10 in 2016

Item	Budget Approved	Amount Available in Jan 2016 (RM)	Source of Fund
1	Implementing CAMP Strategies for FMU 10, TMFR (ICFMU10) 2008 K75	301,144	Forest Rehabilitation Fund
2	Restoration of TMFR, Keningau Forestry District ( <b>RTMFR</b> ) 2012 <b>K75</b>	135,056	Forest Rehabilitation Fund
3	Rehabilitation of Burnt Areas in FMU10		MoF (State)
	(RBAFMU10) D11	1,500,000	·
	TOTAL	1,936,200	

The overall operational and development cost for CAMP FMU 10 in 2016 is estimated to be **RM** 2,372,410 (Appendix 1). This estimated cost covers all aspects of expenditure, including allowances, purchasing of necessary equipments, maintenance and development of infrastructures, field activities and contract services. Given the total estimated expenditure in Appendix 2, it would appear that there will be a budget deficit of **RM** 436,210 in 2016. The deficit is largely due to expenditure for vehicles maintenance as well as fuels. Thus, some adjustments will need to be done on certain activities as the year progresses. A monthly review of this AWP will determine whether additional funding is available from the D11 vote to cover the deficit.

#### 5. FOREST CERTIFICATION

FMU10 was issued 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. A total amount of RM 111, 270.43 was disbursed to FSC in 2015 for the full assessment and surveillance audit. The next Surveillance Audit of FMU10 is envisaged to be done by the third quarter of 2016. A total budget of RM 70, 000 is set aside for this purpose. Some Thirteen (13) minor Corrective Action Requested (CAR) and six (6) Observations need to be documented and monitored in FMU10 before the next Surveillance (Appendix 2). Affuddin Jadin is given the responsibility of compiling the document to be assisted by Amy Bosi, Jafin Bakar, Awangku Effendy Pg Mahmud, Clarice VA, Marjah Othman and Ricky Yolok. The MPCT is confident that in the next surveillance audit, all management activities in FMU10 will be found to be in full compliance of the Principles and Criteria of a Well Managed Forest of FSC. If there are non-compliances to be found by the auditors, it would hopefully be lesser than the current number of minor CARs and observations.

#### 6. STRATEGIES FOR IMPLEMENTATION IN 2016

The summary of the Strategies and strategic actions for implementation and their respective expenditures in 2016 are described in **Appendix 1**. The Monitoring of the Conservation Targets are described in **Appendix 3**. The details of each strategy are as follows:

#### 6.1 Strategy 1: Boundary Demarcation and Maintenance

#### 6.1.1 Nuluhon Trusmadi Forest Reserve

The total length of the boundaries for NuluhonTrusmadi was 136,400 meters (m). For practical reasons, it was further divided into three (3) parts namely Part A in the Tambunan Forestry District (54,800 m), part B (51,500 m) and finally Part C (35,500 m), both of which is under the Keningau Forestry District. This task of surveying both Part A (Kg. Tiwag to Kg. Ulu Monsok) and B (Kg. Ulu Monsok to Kg. Batu Lunguyan had been successfully demarcated on the ground in 2009 by the Forest Resource Management (FRM) Division of Headquarters. The total perimeter boundary surveyed was 106,300 m with the total cost of RM 379,491. The usual SFD Plates were also installed at a 20 m interval along these demarcated boundaries. This activity was funded under the 9th Malaysia Plan Project of the FRM Division.

A Contract for the survey of Part C of the Nuluhon Trusmadi Forest Reserve was executed between the Sabah Forestry Department (SFD) and Jurukur Swasta, Kota Kinabalu, via Contract NO: *JP/SN/PPA-FMU10/PSHS/01/2012* on the 5<sup>th</sup> of March 2012. The cost of the work was RM 169,335, which was funded under the D11 (Pemuliharaan Hutan) budget. The survey was supposed to be completed over a period of 48 weeks. Due to some unavoidable circumstances, the survey was subsequently put on hold until further notice, through the Director's Circular *JPHTN/PP 100-4/1/KLT.55/105* dated 10<sup>th</sup> August 2012. Some 17,803 m of the boundaries survey was completed before the stalling of the activity. Despite the lifting of the suspension of the work by the Director on 26<sup>th</sup> June 2013, the remaining work for Part C, covering a total distance of 17,697

m, did not commenced until now. The Contractor also failed to renew the contract that expired on the 22<sup>nd</sup> April 2013 until now, despite several notification letters given to them.

#### 6.1.2 <u>Sungai Kiluyu Forest Reserve</u>

In May 2012, a tender was called to appoint a registered and reliable surveyor company to survey and demarcate the boundaries of Sg. Kiluyu Forest Reserve, which has been included as part of FMU10. A Contract was duly executed between SFD and **Jurukur Swasta** of Kota Kinabalu for the survey of **19,900 m** of Sg Kiluyu Boundaries on the **6**<sup>th</sup> **August 2012**, via Contract NO. **JP/SP/PPA-FMU10/PSHS/02/2012**. The cost of this survey was **RM94**, **923**, which was supposed to be borne under the HoB projects. The work was scheduled to be completed within 48 weeks. By the end of 2013, the surveyed work was partially completed. The field staff found that some of boundary surveyed was not done properly, particularly with regards to the establishment of the required 5 meter width at some lengths of the surveyed boundary. The contractor had been asked to correct the relevant inadequacies. Despite the renewal of the RSP from 22.10.2013 to 22.10.2014, the said contractor still failed to do the corrections required up to the end of 2015.

#### 6.1.3 Activities in 2016

To expedite actions for both the Part C of the Nuluhon Trusmadi Forest Reserve and Sungai Kiluyu boundary surveys, the MPCT suggested that K (FRM) terminates the contract awarded earlier. While waiting for the appointment of a new surveyor, the MPCT also suggested that the unfinished survey of Part C of Nuluhon Trusmadi be done by Alex Phan and other able staff from K (FRM). Maintenance of the boundaries would likely be contracted out in 2016 (**Table 9**). PH Ahmadiah and PH Daud Kardi will oversee the maintenance of these boundaries. The estimated boundary survey and maintenance cost of RM 70,000 will be procured from the D11 budget.

Table 9: Schedule of Boundary Maintenance in 2016

No	Schedule in 2016	Frequency	Location
1	April - June	1 X	Part B
2	July - September	1 X	Part A
	TOTAL	2 X	

#### 6.2 <u>Strategy 2: Conduct Surveillance Activities</u>

The FMU 10 was largely free from any incidence of threats of fire and other illegal activities during 2015. Both ground patrol and aerial surveillance which were proven to be effective in policing the FMU10 will be continued in 2016. This strategy is entrusted to Bonaventure Yampai in Tambunan, Jafin A. Bakar for the Apin – Apin area and Afiffudin Jadin for the Sinua area. Field staff from Tambunan and Keningau would be doing the ground patrolling. Borang Pemantauan FMU10 - 01 is used to record and logged all ground patrols and aerial surveillances.

#### 6.2.1 Activities in 2016

Aerial Surveillance activities will be carried out four (4) times a year (**Table (10)**. Mr Injiksin Hj Usip of MCEE Keningau will lead the aerial surveillance. Ground patrol will continue to be done by the relevant field staff. A total cost of RM 100, 000 is estimated to be spent on the surveillance activities including payment of allowances in 2016.

Table 10: Schedule of the Aerial Surveillance in 2016

Item	Quarter of 2016	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 headed by both DD (MGT) Rahim Sulaiman and the DFO of Keningau. They will be assisted by Jafin Abu Bakar. The allocation approved by the Ministry Of Finance (MoF) for this strategy is RM1.5 million in 2016. Given the limited allocation, the MPCT for FMU10 decided to only do the maintenance of earlier plantings of 1,000 ha and 160 ha in 2016. No new planting would be done. The total cost for the three (3) maintenance activities is estimated to be RM

**547,456** (**Table 11**). All the work will be contracted out by early April. PH Wihimos Mius is given the task to monitor these works.

Table 11: Maintenance Schedules for the Planted Areas in FMU 10 in 2016

		2016	2016
Area	Year Planted	Maintenance Of	Cost Of
Planted		Planted Area	Maintenance
(Ha)			(RM)
160	2009-2010	X	133,456
			(K75 RTMFR
			budget)
300	2011-2012	X	162,000
			(D11 budget)
700	2009-2010	X	252,000
			(D11 budget)
1160	TOTAL	3X	547,456

Table 12: Estimated Expenditure for the Maintenance of 160 ha Restoration in 2016

No	Activity	RTM Fund
		Estimated cost (RM)
1	Supply seedlings@RM5.00 x 9000 seedlings Kapur and	45,000
	Seraya bukit.	
2	Replanting Cost/ Beating up (30 ha)	30,856
3	Maintenance @ RM180/ha x 160ha x 4	57,600
	TOTAL	133,456

Table 13: Estimated Expenditure for the 1,000 ha Planted Areas and other Strategies Implementation in 2016 (RBA FMU10)

No	Activity	D11 Fund (RBA)
		Estimated cost (RM)
1	Planting Operation including Road maintenance	200,000
1.1	Planting Road Maintenance	200,000
2	Maintenance of Planted Areas	614,000
2.1	Maintenance @ RM180/ha x 300 x 3 times	162,000
2.2	Maintenance @ RM180/ha x 700 x 2 times	252,000
2.3	Allowances (Field staff)	200,000
3	Nursery Maintenance and others	50,000
4	Boundary Maintenance and other Equipments	160,000
4.1	Boundary Maintenance	80,000
4.2	ICT Maintenance including Toners	60,000
4.3	Safety Equipments	20,000
5	Cost of Certification and Implementation of the	451,000
	other Strategies	
5.1	Surveillance Audit FSC	50,000
5.2	Awareness Program	20,000
5.3	Trainings	80,000
5.4	Vehicles maintenance	120,000
5.5	Keningau (Relevant Infrastructure maintenance)	80,000
5.6	Tambunan (Relevant Infrastructure maintenance)	66,000
5.7	POL	35,000
6	Aerial Survey And Mapping	25,000
6.1	Insurance for Climbers	15,000
6.2	Aerial Survey's cost	10,000
	TOTAL	1,500,000

#### 6.3.3 <u>Monitoring of the Permanent Sample Plots (PSPs)</u>

The Permanent Sample Plots that were set-up randomly in the restoration areas in October, 2010 will be measured in 2016. The main purpose of the establishments of these plots was to assess the survival rates and performance of the planted seedlings within the restoration areas at Apin-Apin, Trusmadi FR. The three (3) permanent plots were set-up based on accessibility on three (3) different compartments chosen at random, namely, at Plot 1 in Compartment 24, Plot 2 in Compartment 18 and Plot 3 in Compartment R15. All three (3) compartments were planted in August 2009.

Each permanent plot is then divided into three (3) sub-plots to represent three (3) slope-ranges in each permanent plot. The sub-plots were labelled as upper slope, middle slope and bottom slope. Altogether, a total of nine (90 sub-plots were set-up in the three (30 different permanent plots. Each sub-plot consisted of 150 planted points with seedlings planted at a distance of 3.5m along cleared planting rows and 10m between planting rows. In each Sub-plot there are five (5) rows and each row contains 15 planting points. With the three (30 sub-plots, a typical permanent plot in FMU10 would contains 450 planted points. This would mean that in the three (3) established permanent plots in FMU10, a total of 1,350 planted points covering an area of 4.725 ha would be monitored for survival and growth performances in 2016. This activity would be done by Anuar Mohd and his team.

#### 6.4 Strategy 4: Formulate Suitable Visitation, Flora and Fauna Collections Procedure

The main objective of this strategy is to recommend to the Director all appropriate Guidelines and procedures including Standard Operating procedures (SOP) as well as amendments for fauna and flora collections and the orderly visitation to Mt 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.

In 2015, the Committee under DD (MGT) Rahim Sulaiman continued to be activated (**Table 14**). The Committee deliberated on amending the SOP 003 and developing on a new SOP for the Search and Rescue. Both SOP's were submitted for approval to the Director of Forestry in early December 2015. Minor amendments are currently being made on these two SOPs for final approval by the Director of Forestry. Following the findings of the surveillance audit in 2015, a set of rules and regulation had been implemented by the DFO Keningau, with regards to the collection of fauna and flora in the BJG Camp.

Table 14: Composition of the Visitations and Collection Committee for FMU10

No	Personal	Responsibility
1	DD (MGT) Rahim Sulaiman	Chairman
2	SFC Haji Afifuddin Jadin	Secretary
3	DFO Keningau Azman Said	Member
4	DFO Tambunan Salleh Intang	Member
5	ADO Tambunan	Member
6	ADO Keningau	Member
7	SWDO Benedict Jani	Member
8	Anuar Mohd	Member
9	Dr Abdul Fatah Amir (Pusat Biodiversiti Sabah)	Member

#### 6.4.1 <u>Progress In 2015</u>

The opening of Wayaan Kaingaran was done in December 2014 since its closure to the public in January 2011. **Table 15** describes the total visitation for this route in 2015. A total of 785 climbers, hiked up the wayaan Kaingaran in 2015, comprising of 510 local climbers and 275 foreign climbers.

Wayaan Mastan Apin-Apin Keningau was also opened for the first time in May 2015 for climbers of thirteen (13) people from Kuala Lumpur. **Table 16** described the number of visitors for this wayaan. A total of 31 climbers opted to hike up the Apin Apin route to Mt Trusmadi in 2015, comprising of 17 locals and 14 foreign climbers.

Wayaan Mannan continued to be attracting visitors too since 2011. **Table 17** described the total visitors for this site from 2011 until 2015. A total of 994 visitors came calling to this route in 2015. Local climbers far outweighed the foreign locals by 856 climbers to 158 climbers in 2015. Visitors

to the BJG CAMP appeared to be on the increased, with the foreign tourist flocking in more than the locals, at a rate of 94 foreign visitors to only 15 locals for both 2014 and 2015 (**Table 18**).

It was observed that from January to June 2015, visitations through the three (3) wayaans were quite normal. However, since July 2015, after the earthquake tragedy in Kinabalu that occurred on 6<sup>th</sup> June 2015, resulting in the closing of Kinabalu for climbers, visitations to Mount Trusmadi from the various wayaans began to increase tremendously. By and large, climbers shifted their early booking on Mt Kinabalu to Mt. Trusmadi through their own initial tour agents. The MPCT for FMU10 managed to cope up with the increasing climbing demands accordingly. The cooperation's of the local tour operators through the various wayaans greatly helped both DFO Tambunan and Keningau in coping with these demand. The total collections from ecotourism activities in Mount Trusmadi for both Tambunan and Keningau was RM 120,000 for 2015.

Table 15: Visitors to Mount Trusmadi via Wayaan Kaingaran Tambunan Route in 2015

Month	Local Visitors	Foreign Visitors	<b>Total Visitors</b>
Jan	0	0	0
Feb	2	0	2
March	92	3	95
April	30	1	31
May	55	0	55
June	32	6	38
July	35	94	129
Aug	90	79	169
Sep	56	40	96
Oct	43	39	82
Nov	60	10	70
Dec	15	3	18
TOTAL	510	275	785

Table 16: Visitors to Mount Trus Madi via Wayaan Mastan Apin-Apin Keningau Route in 2015

Month	Local Visitors	Foreign Visitors	<b>Total Visitors</b>		
Jan	CLOSED	CLOSED	0		
Feb	CLOSED	CLOSED	0		
March	CLOSED	CLOSED	0		
April	CLOSED	CLOSED	0		
May	13	0	13		
June	0	0	0		
July	4	1	5		
Aug	0	13	13		
Sep	0	0	0		
Oct	0	0	0		
Nov	0	0	0		
Dec	0	0	0		
TOTAL	17	14	31		

Table 17: Visitors to Mount Trusmadi via Wayaan Mannan Sinua Route from 2011 to 2015

Month		Loc	al Visi	tors			Fore	ign Vis	itors			Tot	al Visi	tors	
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
Jan	0	0	19	32	10	0	0	0	0	0	0	0	19	32	10
Feb	0	0	1	0	28	0	0	10	0	0	0	0	11	0	28
March	0	11	8	72	29	0	3	2	5	2	0	14	10	77	31
April	0	0	2	13	18	0	0	6	2	0	0	0	8	15	18
May	0	0	7	55	32	0	0	4	4	2	0	0	11	59	34
June	0	13	0	0	30	0	2	5	0	5	0	15	5	0	35
July	0	7	0	19	9	0	6	0	11	14	0	13	0	30	23
Aug	0	13	13	0	50	0	3	4	6	12	0	16	17	6	62
Sept	0	4	1	53	32	0	8	3	0	31	0	12	4	53	63
Oct	9	1	0	22	47	1	1	1	3	5	10	2	1	25	52
Nov	36	11	20	6	29	1	2	0	16	4	37	13	20	22	33
Dec	45	10	12	0	7	2	11	7	0	0	47	21	19	0	7
TOTAL	90	70	83	272	321	4	36	39	47	32	94	106	122	319	353
Cumulative GRAND TOTAL	90	160	243	515	836	4	40	79	126	158	94	200	322	641	994

Table 18: Visitors to Borneo Jungle Girl (BJG) Facilities in 2014 and 2015

	Local V	Visitors	Foreign	Visitors	Total Visitors		
Month	2014	2015	2014	2015	2014	2015	
Jan	0	0	0	0	0	0	
Feb	0	0	3	0	3	0	
March	0	0	14	9	14	9	
April	0	6	0	10	0	16	
May	0	0	2	0	2	0	
June	0	0	0	0	0	0	
July	0	0	0	0	0	0	
Aug	0	0	0	5	0	5	
Sep	0	1	0	7	0	8	
Oct	0	0	0	35	0	35	
Nov	8	0	9	0	9	0	
Dec	0	0	0	0	0	0	
TOTAL	8	7	28	66	36	73	
GRAND TOTAL (cumulative)	8	15	43	109	-	109	

Apart from the usual climbing to Mt Trusmadi, a number of notable events or activities took place in 2015. The events/activities were as follows:

 Briefing for the 18 trained Localised Nature Guide (Malim Gunung) and Porters for Tambunan was done on the 29<sup>th</sup> January 2015 at Base Camp Mirad Irad. The objective was to familiarise the guides with the terrains of the wayaan kaingaran and the procedures involved. Briefing were done by DFO Tambunan Salleh Intang, ADFO Tambunan Bonaventure Yampai and FMU10 Planning Officer Awangku Effendy Pg Mahmud.

- A Stakeholder and NGOs Consultation was done on the 10<sup>th</sup> March 2015 at Hotel Sento. The objective was to educate and disseminate information on the management of FMU10 and forest certification. A total of 48 stakeholders and NGOs attended this consultation. The participants were from the Keningau District Office, Kementerian Pelancongan dan Alam Sekitar (KePKAS), Sabah Tourism Board (STB), Universiti Teknologi MARA Sabah (UiTM), Universiti Malaysia Sabah (UMS), Institute of Development Sabah (IDS), Town and Regional Planning Department, Wildlife Department, Borneo Jungle Girl (BJG), Persatuan Pelancongan Pendalaman Sabah, Sook Oil Palms Plantation, Connoly Bed and Breakfast Tambunan, TRCC Tambunan, Mount Travel and Tour Tambunan, Sinua Trusmadi Tainiskon, Tropical Mountain Holiday Tambunan and Avitrade Plantation Sdn Bhd.
- A Dialogue with the Pengerusi Jawatankuasa Keselamatan dan Kebersihan Kampung (JKKK) and the Village heads was done in the 24th March 2015 at Hotel Perkasa Keningau. It was aimed at educating and informing of the current forest policies and management of FMU10 to the Ketua Jawatan Kuasa Kampung and the Ketua Kampung of their roles in the conservation of the FMU10 areas. A total of 108 participants attended the dialogue. YB Datuk Elron Alfred Angin, the Ahli Dewan Undangan Negeri (ADUN for N. 37, Sook) and the representatives of the Member of Parliament (MP for P.132, Pensiangan) and Ahli Dewan Undangan Negeri (ADUN N. 32, Tambunan) also attended the one day dialogue. Other agencies in attendance were representatives from the District Offices of Keningau and Tambunan, Sabah Parks, Sabah Wildlife Department, Lembaga Tabung Getah Sabah, Sabindo Estate and the Malim Gunung for FMU10. A total of 17 Village Heads and 15 Pengerusi JKKK and four (4) kampong folks also attended the dialogue.
- A Tourist Guide and Honorary Ranger course was conducted by the MPCT for FMU10 with the
  collaboration of the department's K (PSM) from 19th until 23rd October 2015. A total of fifty
  three (53) participants were selected from Tambunan, Keningau and Sook. The main objective
  of the course is to train the local youths to become tourist guides (Malim Gunung) and

Honorary Forest Rangers for FMU10. The list of trained tourist guides and Honorary Forest Rangers is described in **Appendix 4**.

 A number of researchers, both from the Forest Research Center (FRC) Sepilok and those outside the SFD, were approved by the Director to carry out research activities in the FMU10 area in 2015 (Table 19).

Table 19: The Lists of Researchers and Research Activities in FMU10 in 2015

Item	Date	Institution	Researchers	Study
1	7/01/2015	Forest Research Center (FRC) Sepilok	Andi Mariani and team	Insect and Botanical Collections
2	8/4/2015	Universiti Malaysia	Mohd Aminur Faiz	Diversity and Distribution
	27/7/2015	Sabah (UMS)	bin Suis and	patterns of ferns on Mount
	22/9/2015	Fakulti Sains dan Sumber	Florins Anthony	Trusmadi
	1/10/2015	Alam		
3	8/04/2015	Tsing Hua University,	Cheng Wei Chen	Study on Ferns
		Taiwan	and Prof Kaushing	,
4	19/8/2015	Forest Research Center	Dayang Fazrinah	Fungus, Herbal and
		(FRC) Sepilok	Ag Damit	Begonia Study at
				Limestone areas
5	July 2015	Universiti Malaysia	Ng Shean Yeaw	Chemical Metabolit Profile
	to June	Sabah (UMS)		on Secondary Heart
	2016	Tropical Biology and		Fungus
		Conservation Institute		G
6	9/10/2015	Universiti Sains Malaysia,	Azwal Malandi	Stakeholders' Involvement
	4/11/2015	Penang	and Team	on the SFM
	, ,			Implementation in Forest
				Reserve
7	4/11/2015	Forest Research Center	Herda Fathia Abd	
		(FRC) Sepilok	Salaam	

#### 6.4.2 <u>Activities in 2016</u>

All three (3) wayaans are open to the public in 2016. Local operators namely Mount Trus Madi Travel & Tour (Kaingaran), Trus Madi Adventure Tours (Apin-Apin) and Sinua Trus Madi Tainiskon Camp (Sinua) are given preferences to arrange the climbing activities through these routes. BJG's CAMP would also be opened to the public as well. All of them are either holders or currently applying for an Occupation Permits (OP) in FMU10. These operators were chosen on the basis of

their interest in ecotourism in FMU10 and their financial capabilities to bring more physical developments in FMU10. The MPCT will be recommending to the Director of Forestry for these local operators namely Mount Trus Madi Travel & Tour (Kaingaran), Trusmadi Adventure Tours in Apin-Apin and Sinua Tainiskon Camp in Sinua to be given the approval in managing climbing activities through the Wayaan Mastan (Keningau) and Wayaan Mannan (Sook) respectively as appointed tour agents. It is hoped that the increasing visitations trend will continue, which in turn would sustain the creation of employment opportunities to the local tour operators and the trained Malim Gunung.

The other major activities in 2016 are as follows:

- SFD will continue to train the relevant local communities around FMU10 to operate proper homestay and to be Tourist guides. Hopefully, funds from JPSM would continuously be made available for the MPCT for FMU10 in 2016 through the active collaborations with Jabatan Pembangunan Sumber Manusia (JPSM) and Borneo Tourism Institute (BTI).
- The management of the recently completed Walai Tingkoyodon (Rest House) at Wayaan Kaingaran will need to be privatised to Mount Trusmadi Travel and Tour. This is to ensure the efficient management and operation of the walai for visitors through this route. The draft Memorandum of understanding is currently being prepared by the DFO Tambunan, who was assigned by the MPCT for FMU10 to do it. It is envisaged that the draft and recommendations would be ready for submission to the Director in April 2016 for subsequent approval by the MoF.
- To ensure the trained local guides and porters are employed accordingly and the SOP for SAR in Mount Trusmadi is fully complied, the MPCT for FMU10 will initially help in organising the Local operators and the Malim Gunungs to set up their one grouping or associations to manage their respective interests. These grouping or associations will be made the stakeholders in any future consultations with regards to the conservation of FMU10 areas. The SOP for SAR in Mount Trusmadi acknowledges the important roles of these tour operators and Malim Gunung in the search and rescue efforts in the FMU10 area.

- A special committee was established to develop the Search and Rescue (SAR) SOP for Mt Trusmadi. The efforts began in July 2015 and the final draft was submitted for vetting by the Director at the end of 2015. The stakeholders of the committee included the Jabatan Bomba, the police, meteorological department, Kementerian Kesihatan and the local tour operators. The revised draft SOP would be resubmitted for the Director's approval by end of March 2016.
- Training of all stakeholders ranging from the SFD staff, the tour operators and Malim Gunungs will be done in accordance to the recommendations by the Jabatan Bomba and Kementerian Kesihatan of Keningau and Tambunan. Table 20 describes the planning schedule. The major constraint is the budget. Additional budget will be sought from the department's K (PHM) or the forest rehabilitation fund if necessary.

Table 20: Planning Schedule for the Training on SAR in 2016

Item		Action							Month								
	Activity	Action	1	2	3	4	5	6	7	8	9	10	11	12			
1	Consultation with BOMBA and Jabatan Kesihatan Tambunan and Keningau	Afifuddin Jadin assisted by Ricky Yolok				X											
2	Developing Training Modules and schedules and budget/Reporting to MPCT FMU10	Afifuddin Jadin assisted by Ricky Yolok					Х										
3	Consultations with the Malim Gunungs/Porters	Afifuddin Jadin assisted by Ricky Yolok					X										
4	Trainings done in accordance to the agreed Modules	Afifuddin Jadin assisted by Ricky Yolok						X	X	X	X	X					
6	Final Training report to MPCT FMU10	Afifuddin Jadin assisted by Ricky Yolok											X				

 The existing SOP for managing tourism activities in Mt Trusmadi (SOP: 003) was revised by the committee. It was forwarded for vetting by the Director together with the SOP for SAR in Mt Trusmadi at the end of 2015. The vetted draft will also be submitted for approval by the Director by end of March 2016.

- The Final report on the Stakeholder/NGOs Consultation and the Dialogue with the JKKK and the Village Heads will be finalised by Awangku Effendy Pg Mahmud and Afifuddin Jadin as soon as the database from the Social Baseline Surveys (SBS) are tabulated and analysed. It is envisaged to be completed by end of April 2016. This Report will be used for the SIA planning under Strategy 6.
- All Finalised research papers for the studies highlighted under Table 19 will be reminded for submission to the MPCT as soon as possible. Afifuddin Jadin is given the responsibility to seek the submissions of these papers by June 2016.
- All relevant actions to comply with the requirements of the FSC's surveillance audit findings
  will be documented for presentation. The next surveillance audit is expected to be in July
  2016. The task of documenting these compliance Report is given to Afifuddin Jadin to be
  assisted by Amy Bosi and the other relevant implementers.
- If necessary, a session will be held by the MPCT and the four (4) local Tour Operators to discuss and ascertain the need to review the various existing charges imposed by SFD and the relevant economics of climbing activities to Mount Trusmadi.

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

Providing good accessibility and on ground presence in FMU10 was the major focus under this strategy when the initial CAMP for FMU10 was approved in 2009. Implementation of this strategy was shouldered jointly by Bonaventure Yampai, Jafin A. Bakar and Affuddin Jadin.

#### 6.5.1 <u>Progress in 2015</u>

A sum of RM 500,000 approved under KePKAS, was utilised for the construction of one (1) suspension bridge crossing the Sungai Kaintano Besar, two (2) toilets and water gravity facility at K.S. Khiong Point, located at the entry point of Wayaan Mannan, Sinua. The tender was awarded to Ho and Co in July 2015 by KePKAS. The Tender Specifications were prepared by the FMU10 Office together with JKR Keningau. Construction was completed within three (3) months from the date of project site possession. The last site meeting held on the 9<sup>th</sup> September 2015 had confirmed the completion of the project. The completed work was subsequently recommended for payment by KePKAS.

Due to the budget constraint, the road maintenance at Jalan Ali Hassan, Apin Keningau was done but was limited to cover a distance of about 23 km only. The cost incurred for this activity was RM 149,000.On the other hand the plan to construct of car park and toilets at Kitingan Point, Tambunan did not take off the ground as the sum of RM 350,000 applied from the Sabah Tourism Board (STB), unfortunately was not approved. Luckily, some funding was made available by the ICU from the Prime Minister's Department for the construction of the above facility minus the toilets at Kitingan Point, Tambunan.

#### 6.6 Strategy 6: Implement Relevant Social Forestry Activities

This strategy in 2016 is entrusted to Awangku Effendy Pg Mahmud, with the assistance from Clarice VA, Ricky Yolok, Afifuddin Jadin and the department's K (SFM).

#### 6.6.1 Progress in 2015

Data entry of the SBS collected in 2012 was finally tabulated for analysis in late 2015. This was contracted out at a cost of RM 4,000. At the time of writing of this AWP, the data are still being analysed by Awangku Effendy Pg Mahmud. The full analysis is envisaged to be completed by the end of April 2016.

#### 6.6.2 <u>Activities in 2016</u>.

**Table 21** describes the activities to be done in 2016. A total allowances cost of RM 30,000 is envisaged to be spent on the Social Impact Assessment (SIA) study.

Table 21: Implementation schedule for Social Impact Assessment (SIA) Activities in 2016

Ite	Strategic Actions	Action		Month												
m		Action	1 2	2	3	4	5	6	7	8	9	10	11	12		
1	Developing the SIA for FMU10	Awangku Effendy, Afifuddin Jadin and Ricky Yolok			X	X										
2	Field work for SIA	Awangku Effendy, Afifuddin Jadin, Clarice VA and Ricky Yolok					X	X	X	X						
3	Tabulating the Data	Awangku Effendy and Afifuddin Jadin							Х	X	Х					
4	Review surveyed data and mapping out of all encroached areas	Awangku Effendy, Afifuddin Jadin, Clarice VA and Ricky Yolok					Х	X	Х	X	X					
5	Final reporting to MPCT FMU10 for recommended Actions	Awangku Effendy, Afifuddin Jadin, Clarice VA and Ricky Yolok										X				
6	Community Meetings (Tambunan, Keningau, Sook)	DFO Keningau and Tambunan Clarice VA (Secretariat)											X			

## 6.7 Strategy 7: Develop and Implement Controlled Hunting Plan in Ulu Rompon and Ulu Pangas

This strategy was initially headed by the Keningau SWD, headed by Benedict Jani. The site for this activity is located at KM 18 Jalan Ali Hasan, Ulu Pangas, Keningau. In 2016, this task is headed by

PH Faizal Basirin. His experience in Ulu Segama Malua in this field made him a suitable candidate to handle this strategy.

#### 6.7.1 <u>Progress in 2015</u>

Monthly roadside wildlife night spots observations on three (3) tracking points by the FMU10 wildlife team as well systematic wildlife daily sightings using Camera Trapping were done on four (4) strategic locations. These observations and Camera Trappings revealed the active presence of wildlife's activities in the FMU10 area. A number of wildlife's sighted were the mousedeers, the beardered pigs or wild boars, sambar deers, macaques, pangolins, wild fowls, bears, and others. A full report is still being prepared by PH Faizal. It is envisaged to be completed by the early April 2016. The delay was due to the compiling of the various photographs from the various locations of the camera traps.

#### 6.7.2 Activities in 2016

The roadside wildlife's monthly observations and the Camera Trappings' sightings would be continued in 2016 (**Table 22**). All data and photographs would be compiled and the lists of wildlife's to be tabulated and analysed by Faizal Basirin accordingly. A quarterly report will be presented to the MPCT for FMU10. Jafin Bakar with the assistance from PH Faizal Basirin, will hold further consultations with the Sabah Wildlife Department regarding the subsequent actions for this activity based on the findings of these quarterly reports.

Table 22: Wildlife's Surveys in FMU10 in 2016

Item		Action	Month											
	Activity	Action	1	2	3	4	5	6	7	8	9	10	11	12
	Roadside Wildlife's	Faizal Basirin	Χ	X	X	Χ	Χ	Χ	X	X	X	Χ	Χ	Χ
1	Observations and													
1	Camera Trappings'													
	Sighting activities													
	Analysis and Quarterly	Faizal Basirin			Χ			Χ			Χ			Χ
2	reporting to MPCT													
	FMU10													
	Consultations with Sabah	Jafin Bakar and			Χ			Χ			Χ			Χ
3	Wildlife Department for	Faizal Basirin												
	subsequent Actions													

### 6.8 Strategy 8: Establish Community Woodlots in Stateland Area in Tambunan Adjoining FMU 10

The objective of this strategy is to provide necessary wood resources for the Tambunan local communities in a stateland area outside FMU 10 near kampong Kaingaran. This objective is also expected to abate or reduce the threats of communities engaging in illegal timber extraction in FMU 10 by providing alternative timber resources for their domestic usages and managed them sustainably by the communities themselves. With the retirement of ADFO Julius P Indu in 2015, the task to implement this strategy is now solely entrusted to the DFO Tambunan, Salleh Intang.

#### 6.8.1 <u>Progress in 2015</u>

During one of the MPCT meetings, the DFO Tambunan deliberated on the issue and came up with a suggestion to change the woodlot locality. The new proposed community woodlot is a 500 meter wide state land parcel along the Nuluhon Trusmadi Forest Reserve boundary beginning from Ranau to the Tambunan/Keningau boundary. The change in locality was duly agreed by the MPCT because the proposed area will better serve its function as the FMU10 buffer zone and it covered all of the mukims in the Tambunan forestry districts. This new proposal was subsequently put up the LUC meeting and it decided that SFD should put up an official application for the area to the Director of Land and Survey accordingly. The LUC was of the opinion that following the overwhelming responses during the FMU10 Zone 3 Social Community meeting which was held on the 18th June 2014 at the Tambunan District, a follow up awareness and dialogue would be advantageous to be done for all kampongs in Tambunan. This follow-up action was put on hold in 2015 due to other pressing actions in FMU10.

#### 6.8.2 Activities for 2016

The follow-up action for an awareness and dialogue for the creation for the buffer zone to the various kampongs in Tambunan will be included as an agenda during the normal Community Forestry Meetings in Tambunan. An official application will be submitted to the LUC in 2016.

## 6.9 Strategy 9: Understanding of the Target Species Through:

## 6.9.1 <u>Inventory of Hornbills By 2018</u>

This task is headed by Alim Biun of Sabah Parks. In 2015, no inventory was done for the hornbills due to the heavy work commitments of Alim Biun in his own organisation due to the Kinabalu tragedy in June.

## 6.9.1.1 Activities in 2016.

**Table 23** summarizes the activities to be implemented in 2016. The inventory would be conducted every quarterly. Data analysis and Report writing would be done after the completion the inventory towards the end of the year. This activity is likely to incur a cost RM 25,000 in 2016. K75 will be sourced to fund this activity.

Table 23: Schedule of field work of the Hornbill Inventory in 2016

Action	March	May	July	Sept	Nov
Field data collecting expected to spend 7 days conduct by four staffs of each visit	25 th - 31st	25 th – 31st	25 th- 31st	25 th- 30st	25 th- 30st
Analyzing data and report writing	Af				

## 6.9.2 Survey of Rajah Brooke's Birdwing

The objective of the survey is to ascertain distributions and to assess conservation viabilities of Rajah Brooke's Birdwing in FMU 10. This task will not be done due to the retirement of Dr Chey Vun Khen of FRC. This strategy will be dropped altogether in the coming years, unless an able replacement is found.

# 6.10 Strategy 10: Implement Relevant Conservation Awareness Programmes and Website Maintenance

The objective of the Awareness Programme was to provide information and to educate the general public of Tambunan and Keningau on the importance of conserving forested areas and general biodiversity. The task was headed by Marjjah Othman in 2015. The task of managing and updating the FMU10 Conservation Area (FMU10CA) website was entrusted to Afendy Suraip of FRC.

## 6.10.1 <u>Progress in 2015 of the Conservation Awareness program</u>

A total of five (5) Kampongs were selected for the awareness programme in August 2015 (**Table 24**). A total of 573 people participated in the programs, comprising of 340 adults and 233 children. Briefings regarding the management of FMU10 were both given to the adults and with some modifications for the children during the quiz session. Each of these programs culminated with the plantings of a total of fifty (50) gaharu trees at the vicinity of the balai rayas respectively by the participants. The programs were well received by the participants in all of the five (5) kampungs.

Table 24: The Selected Kampungs for the Awareness Programmes in 2016

Kampung	Date of	Adults	Children	TOTAL	Types of Awareness	REMARKS
	Program			Participants	Involvement	
Nandagan	8/8/2015	98	57	155	Role Playing; Briefing	Program was well
and					and Football Games;	received
Mempisas					(Adults)	
Kepayan	15/8/2015	84	25	109	Quiz; Coloring and	Program was well
Baru					Joining Photographs	received
Sinua	22/8/2015	95	118	213	Competitions and	Program was well
					Briefings (Children)	received
Merapok	29/8/2015	63	33	96	Planting of 50	Program was well
					Gaharu trees	received
-	TOTAL	340	233	573	-	-
	Participants					
	-					

## 6.10.1.1 Activities In 2016

This strategy has been assigned to Marjjah Othman and Clarice VA. Marjjah Othman will be responsible in carrying out the program in the Tambunan District, while Clarice VA has been assigned to head the program for the Keningau District. **Table 25** describes the activities and schedules to be implemented in 2016. An allocation of RM 10,000 each has been set aside in implementing the program in Tambunan and Keningau.

Table 25: The Activities and schedules for the Awareness Program in 2016

Item	Activity	Action						N	1ont	h		Action Month									
Item	Activity	Action	1	2	3	4	5	6	7	8	9	10	11	12							
	Consultation with	Marjjah Othman			X																
1	Awangku Effendy Pg and Clarice VA Mahmud on SBS Data																				
	Determination of	Marjjah Othman			Χ	X															
2	kampungs and Develop	and Clarice VA																			
	Awareness Program																				
	Consultation with	Marjjah Othman				X															
3	JKKK/Village heads of selected Kampungs	and Clarice VA																			
	Awareness Program in	Marjjah Othman					Х	X													
4	selected Kampung	and Clarice VA																			
	Reporting to MPCT	Marjjah Othman						Χ	Χ												
5	FMU10:	and Clarice VA																			
5	Highlighting Major																				
	Findings/Issues																				

## 6.10.2 Progress in 2015 on the Update on the Website Maintenance for FMU10

This responsibility is entrusted to Mr Afendy Suraip who also the web designer of the FMU 10 Website, he is assisted by Afifuddin and Hj.Mohd Nooh Jiran to update and provide additional informative input into the new website.

The FMU10 Conservation Area website was successfully upgraded to the planned platform, Joomla! – An open-source Content Management System (CMS). The completed website was fully

functional and integrated with the Sabah Forestry Department's E-Inquiry and E-Complaint application in accordance to the Director of Forestry circular (JPHTN/PP 100-4/1/KLT.65/21 and JPHTN/PP 100-4/1/KLT.65/21). These virtual services integration had enabled netizens especially the public to understand and obtain information regarding the conservation efforts conducted in FMU10. The major obstacle for the website however remained the lack of an updated content from time to time. For example one of the gaps found under the surveillance audit of FSC was the need to update the public summary on the conservation efforts in accordance to the principles of SFM under FSC. This inadequacy has been addressed consequently by the MPCT after the surveillance audit.

#### 6.10.2.2 Activities in 2016

There are no major upgrading and changes to be made for the current website for FMU10 in 2016. The responsibilities to update the write up of the contents of the website is headed by Afifuddin Jadin, while Affendy Suraip, will continue to be the Webmaster for FMU10. An amount of RM 80, 000 has been set aside for the maintenances of this website, as well as for purchases and upgrades of IT equipments such as laptops and desk tops for the MPCT and other related IT equipments.

## 6.11 Strategy 11: Scientific/Biodiversity Study

The main aim of this strategy is to conduct a scientific expedition to explore and study the biodiversity of flora and fauna that are found in the FMU10's landscape. The findings from the expeditions would then be presented and deliberated in an organised workshop. For 2016, this task is coordinated by Botanist John Sugau with the assistance from Andi Mariani.

## 6.11.1 Progress in 2015

Due to the limited time and other pressing works from the FRC personals, there was no activity done for 2015.

## 6.11.2 Activities in 2016

At the time of write up of this AWP, there is yet to be a major commitment by the main strategy's coordinator, John Sugau and Andi Maryani regarding the schedules of work to be done. In the light of the current tight budget faced by the MPCT for FMU10, it is best that this strategy be put on hold as other researchers from outside such as from UMS and USM are also flocking in the FMU10 to carry out their research activities for approval by the Director of Forestry. A review of this strategy will be done during the MPCT's meetings, as and when the budget permits for more active research activities to be headed by the FRC team in FMU10.

## 6.12 Strategy 12: Collaborate With Adjacent Landowners at Relevant Boundaries of FMU10

This strategy is assigned to Afifuddin Jadin, who will be assisted by FMU10 Field Coordinator (FMU10 FC) Ricky Yolok.

The progress done in 2015 had been limited to identifying the major and big land owners around the vicinity of FMU 10. A number of big land owners such as Sabindo Plantation Sdn Bhd, Sook Oil Palm Plantation (Ladang Sungala), Sabah Forestry Development Authority (SAFODA), Lembaga Industri Getah Sabah (LIGS) had been identified and consulted with regard to the revised CAMP's implementation as well as the consultations workshop held by the MPCT for FMU10 in 2015. One of the land owners was given OP (Occupation Permit) for road access in the Nuluhon Trusmadi Forest Reserve. To date, four hundred and fifty six (456) Land Titles within a two (2) km radius along the FMU 10 Forest Reserve Boundaries' were obtained from the Land and Survey Department.

**Table 26** describes the major activities to be done in 2016. The major cost envisaged will be on the mappings preparation and field staff allowances for on ground verifications.

Table 26: Implementation Schedule for Strategy 12 in 2016

		Action						N	Iont	h		1	,	
	Activity	71011	1	2	3	4	5	6	7	8	9	10	11	12
1	Consultation with the Land and Surveys department	Afifuddin Jadin assisted by Ricky Yolok			Х	X	X							
2	Analysis of land owners based on data from Land and Survey Department	Afifuddin Jadin assisted by Ricky Yolok					X	X	X	X	X			
3	Tabulating the Data	Afifuddin Jadin assisted by Ricky Yolok					X	X	X	X	X			
4	Meeting and discussion with identified land owners	Afifuddin Jadin assisted by Ricky Yolok								X	X	X		
5	Record data based on field inspection and from mapping section FRM	Afifuddin Jadin assisted by Ricky Yolok									X	X	X	Х
6	Final reporting to MPCT FMU10	Afifuddin Jadin assisted by Ricky Yolok												Х

## 7. CONCLUSION

Under the Revised CAMP, the Conservation targets had been reduced from Eight (8) into Four (4). Similarly, the threats had been also reduced form Five (5) to Four (4). All Twelve (12) strategies of the approved CAMP FMU10 will be implemented in 2016. Apart from the implementation of these strategies, it will be necessary for the MPCT for FMU10 to focus on the findings of the full auditing by FSC prior to the award of the forest certification last year. Documentation and proof of compliance for all of the 13 minor CAR and 6 observations identified in the full assessment by GFTN that was conducted on the 15<sup>th</sup> to 19<sup>th</sup> December 2014 will need to be compiled (**Appendix 2**). A compliance report will be prepared for discussion by the MPCT prior to the next Surveillance Audit, envisaged to be held in July 2016. All implementers had been assigned their specific duties to comply and "close" all of those minor CARs and observations. Affuddin Jadin will do the necessary compilation to be assisted by Amy Bosi.

It is imperative that existing cooperation and commitments of all of staff and implementers be executed to the maximum by the MPCT and Chief Implementer. A monthly operational meeting should therefore be done to resolve any problems or deviations that may arise from such cooperation. A total of **RM 1,936,200** budget from various sources has been acquired by the MPCT for funding these strategies and actions in 2016. A total expenditure of **RM 2,372,410** is envisaged to be spent.

Appendix 1: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2016 for CAMP\_FMU 10

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
1	Boundaries Demarcation and Maintenance	1. Boundary demarcation for part C of Trus Madi Forest Reserve ( <b>Last 19,000 m</b> ) and Sg Kiluyu Forest Reserve ( <b>19,900 m</b> ) by SFD Staff	Allowances * 20,000 (Safety equipments)			X	X	X	X	X	X	X	X	X	X
		2. Boundary maintenance	80,000				X	X	X	X	X	X	X	X	X
2	Conduct Surveillance Activities	3.Ground Patrol	Allowances *	X	X	X	X	X	X	X	X	X	X	X	X
		4. Aerial Surveillance	10,000			X			X			X			X
3	Forest Restoration	5. Maintenance of Planted Areas (including nursery)	614,000 + 50,000				X	X	X	X	X	X	X	X	X
		6. Maintenance of access roads to planted areas and Yield Plots measurement	200,000 Allowances *				X	X	X	X					
4	Formulate Suitable Visitation, Flora And Fauna Collections Procedure	7. Management of climbing activities, Trainings for SAR Activities and other relevant activities	80,000 + 15,000 (Climbers' Insurance)			X	X	X	X	X	X	X			
5	Upgrading And Maintenance Of Relevant Infrastructures	8. Upgrading and Maintenance of Facilities For Wayaan Tambunan, Apin-Apin and Sinua and other Infrastructures	80,000 + 66,000		X	X	X	X	X	X	X	X	X	X	X
6	Implement Relevant Social Forestry Activities	9. Social Impact Assessment (SIA) to be finalised and Implemented	Allowances *			X	X	X	X	X	X	X	X		
		10. Analysis and Final Report to MPCT	-											X	

Appendix 1: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2016 for CAMP\_FMU 10(continuation)

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
7	Develop And Implement Controlled Hunting Plan In Ulu Rompon And Ulu Pangas	11. Wildlifes observations and sightings in Ulu Rompon and Ulu Pangas and reporting to MPCT	Allowances*	X	X	X	X	X	X	X	X	X	X	X	X
		12. Consultation of the Controlled Hunting Plan (CHP) with Wildlife Department	-			X			X			X			X
8	Establish Community Woodlots In Stateland Area Near Kg. Kaingaran In Tambunan Adjoining FMU 10 Area	13. Presentation of Proposal to LUC Tambunan for Approval	-			X			X			X			
		14. Preparation of Community Wood Lots Management Plan if Approved by LUC	Expenditure to be prepared when area approved				X			X			X		
9	Understanding Of The Target Species Through: A) Inventory Of Hornbills By 2018	15. Field Inventory and Analysis by Alim Biun	Allowances*			X			X			X			
10	Implement Relevant Conservation Awareness Programmes Including Website, certification and social Forestry Programme.	16. Maintenance of Website and relevant IT Equipments	60,000	X	X	X	X	X	X	X	X	X	X	X	X
		17.Awareness/ Educating Public on Conservation Issues	20,000 Allowances*				X	X							

Appendix 1: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2016 for CAMP\_FMU 10 (continuation)

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
11	Scientific/ Biodiversity Study	19. MPCT to decide if Budget Permitting to do a study	Allowances*			X			X			X			
12	Collaborate With Adjacent Landowners At Relevant Boundaries Of FMU10	21. Identify the Big and Individual Landowners around FMU10	Allowances*			X	X	X	X	X	X	X	X	X	X
*	Surveillance Audit	Gaps audited in the Management of FMU10 according to the P & C of FSC	70,000 Allowances*							X	X	X			
A		TOTAL (RM)	1,936,200												
В	Budget Deficit	Vehicles Maintenance and fuels (** RM120,000 set aside for vehicle maintenance) (***RM 35,000 set aside for POL)	436,210												
С		GRAND TOTAL	2,372,410												

<sup>\*</sup>Allowances: RM 200,000 set aside under D11

Appendix 2: The List of Corrective Action Request (CAR) and Observations from the Full Evaluation Auditing of FMU10 for Forest Management Certification done in 2015 for follow-up actions in 2016

NO	FSC INDICATOR	MINOR CAR	ACTION	REMARKS
1	1.5.2	The boundary survey of the FMU shall be completed to prevent further encroachment by the neighbouring communities.	DFO Keningau/Tambunan and K (FRM)	Field Staff to do complete surveys and K (FRM) to appoint new Surveyors
2	2.3.2	Forest managers shall ensure there is effective communication with local communities through the Committee mentioned. This included any responses from forest managers shall be communicated to local communities involved and the implementation of relevant SOPs shall be consistent.	DFO Keningau/Tambunan and Clarice VA	Committees and meetings on going and updated and made available on website
3	4.4.1	Forest managers shall conduct a SIA and incorporate the findings of relevant mitigation actions into current management plan.	Awangku Affendy assisted by Clarice VA and Ricky Yolok	SIA Plan to be finalised by April 2016
4	4.5.2	Forest manager shall avoid adverse impacts to the property, resources and/or livelihoods of local peoples with the development of additional guidelines on this matter.	DFO Keningau/Tambunan	Existing Forest Policies and mitigation measures in SIA to be referred
5	5.5.4	Scheduled dialogues with villagers and other relevant stakeholders including NGOs shall be conducted.	DFO Keningau/Tambunan and Clarice VA Afendy Suraip	Meetings ongoing and to be done according to schedule and updated; info made available on website
6	6.4.3	A system of checks shall be instituted by the privately operators and documented	DFO Keningau/Tambunan	All active Ecotourism operators to be alerted
7	6.5.7	Appropriate sediment container shall be constructed at the camps within the FMU to prevent any discharge of waste water into waterways.	DFO Tambunan	Facilities at Mirad Irad contained and in compliance
8	6.7.2	Containment shall be constructed at the generator sheds at all the base camps.	DFO Tambunan	Facilities at Mirad Irad contained and in compliance

Appendix 2: The List of Corrective Action Request (CAR) and Observations from the Full Evaluation Auditing of FMU10 for Forest Management Certification done in 2015 for follow-up actions in 2016 (continuation)

NO	FSC INDICATOR	MINOR CAR	ACTION	REMARKS
9	7.4.3	The public summary has information on the management of the FMU. Since no harvesting of products is undertaken, information on harvest levels is not needed. However some primary elements of the management plan as indicated in Criterion 7.1 as follows were not included:  Item e) Provisions for monitoring of forest growth and dynamics  Item f) Environmental safeguards based on environmental assessments.  Item g) Plans for the identification and protection of rare, threatened and endangered species.  (The following primary elements of the management plan shall be incorporated in the public summary:  Provisions for monitoring of forest growth and dynamics  Environmental safeguards based on environmental assessments.  Plans for the identification and protection of rare, threatened and endangered species	Afifuddin Jadin and Afendy Suraip	Complied Public Summary put up on website
10	8.5.1	A public summary can be found under the FMU website. However some information listed under Criterion 8.2 was not available as follows: . growth rates, regeneration, and condition of the forest . composition and observed changes in the flora and fauna, . environmental and social impacts of harvesting and operations, and .cost, productivity, and efficiency of forest management  (The following results of monitoring shall be incorporated in the Public summary: . growth rates, regeneration, and condition of the forest . composition and observed changes in the flora and fauna, . environmental and social impacts of harvesting and operations, and .cost, productivity, and efficiency of forest management	Afifuddin Jadin, Awangku Effendy Pg Mahmud, Jafin BA, Anuar Mohd, John Sugau and Afendy Suraip	Complied Public Summary put up on website
11	9.2.2	The complete list of stakeholders consulted for the establishment of the HCVF sites shall be provided in the HCVF report.	Awangku Effendy Pg Mahmud assisted by Ricky Yolok Afendy Suraip	Consultation with the relevant Stakeholders to be done as soon as analysis of SBS data completed and new HCVF Report made and available on website
12	9.3.1	The management plan and the public summary shall include a section pertaining to HCV areas identified within the defined forest area	Afifuddin Jadin and Afendy Suraip	Complied Public Summary/CAMP put up on website
13	9.4.1 & 9.4.5	Measurable effectiveness indicators shall be developed and presented in the HCVF section of the management plan. Results of annual monitoring shall be presented in the publicly available summary.	Afifuddin Jadin and Afendy Suraip	Complied Public Summary put up on website

Appendix 2: The List of Corrective Action Request (CAR) and Observations from the Full Evaluation Auditing of FMU10 for Forest Management Certification done in 2015 for follow-up actions in 2016 (continuation)

NO	FSC INDICATOR	OBSERVATION	ACTION	REMARKS
1	1.6.1	The section on objectives of the publicly available summary shall include a commitment to the FSC Principles and Criteria.	Afifuddin Jadin and Afendy Suraip	Complied Public Summary put up on website
2	1.6.2	A simplified version of the P&C with all the essential elements in Bahasa Malaysia could be posted to enable easier comprehension by the field workers.	Afifuddin Jadin and Afendy Suraip	Simplified Version P & C in Bahasa Malaysia to be done and be made available on website
3	3.3.5	Forest managers would have to provide more training to their staff and workers on identification and protection of sites with the participation of local communities.	Jafin AB and Awangku Effendy Pg Mahmud and Afendy Suraip	HCVF Refresher course to be done and reported on website
4	6.2.6	Information on protected species of flora and fauna of Sabah and their habitats shall be disseminated to field employees through suitable media.	Jafin BA, Afifuddin Jadin, Awangku Effendy Pg Mahmud and Afendy Suraip	Briefing by Sabah wildlife Department and List to be disseminated to all staff and stakeholders and be made available on the website
5	7.1.5	The CAMP shall be amended to include provisions for regular updates including a mid-term review	Jafin BA, Awangku Effendy Pg Mahmud and Afendy Suraip	Annex to be added in Revised CAMP for Mid- term Review and made available on the website (pdf)
6	8.1.1	The SOP on Monitoring as well as other SOPs shall be amended to include only activities relevant to the FMU.	Afifuddin Jadin	Relevant SOPs amended accordingly; Lists of SOPs made available on the website (pdf) and disseminated to all staff and stakeholders;

## Appendix 3: Summary of Monitoring Activities to be done in 2015 under CAMP FMU 10

Table 1: Summary of the Monitoring Activities for the UMDF/LMF and the Hornbills Conservation Targets

Item	Target	Indicator	Methodology	Frequency	Responsibility
1	UMDF/ LMF	Area of undamaged Forest by fire: macro view	Remote sensing interpretation;	Annually	Forestry Department: Management (HQ) Level
2	UMDF/ LMF	Area of undamaged Forest by fire: micro view	Inspection and Direct Interpretation	Bi-Weekly Surveillance	Respective Mukim Staff
3	UMDF	Area of undamaged Forest by Illegal Timber Extraction	Inspection and Direct Interpretation	Bi-Weekly Surveillance	Respective Mukim Staff
4	UMDF	Encroached areas are not enlarged	Inspection and Direct Interpretation	Bi-Weekly Surveillance	Respective Mukim Staff
5	UMDF	Controlled Hunting Area Not Encroached and Regulations not violated	Inspection and Direct Interpretation	Bi-Weekly Surveillance	Respective Mukim Staff
6	UMDF	Burnt Area Planted and Restored	Inspection and Random Enumerations	Quarterly for Planted Acreage	Jafin Abu Bakar & Awgku Effendy
7	UMDF	Growth and Yield Plots	Direct Growth Measurement & Mortality	Annually	FRC Research Team
8	UMDF	Demarcated Forest Boundaries are not Encroached	Remote sensing interpretation	Annually	Forestry Department: Management (HQ) Level

Table 1: Summary of the Monitoring Activities for the MHDF/LMF and the Hornbills Conservation Targets (Continuation)

Item	Target	Indicator	Methodology	Frequency	Responsibility
9	UMDF	Demarcated Forest Boundaries are not Encroached	Inspection and Direct Interpretation	Monthly Surveillance	Respective Mukim Staff
10	UMDF/ LMF	Eco tourism Guidelines adhered	Direct Interpretation and Observation	Every Climb and quarterly for HCVF	Respective Mukim Staff
11	Hornbills	Population density/ Species Distributions of Hornbills	Plots and population census	After each Survey	Forestry and Sabah Parks Integrated Field Team

Appendix 4: List of Trained Guides (Malim Gunung) for Mt Trusmadi

	SENARAI NAMA AHLI MALIM GUNUNG TRUS MADI					
BIL	NAMA	NO. K/P (UMUR)	NO AHLI MG	KAMPUNG		
1	ABD MANAN BIN MOKSIN	880601-49-5087 (27 TAHUN)	SFD/FMU10/MG-001	Ritting, KGU		
2	AEFRANNY BTE NYCHOLAS	910717-12-5656 (23 TAHUN)	SFD/FMU10/MG-002	Kapayan Baru, KGU		
3	AIDI BIN PAULUS	950303-12-5601 (20 TAHUN	SFD/FMU10/MG-003	Pangas Ulu, KGU		
4	ALDON DIDI YAP	970829-12-5831 (18 TAHUN)	SFD/FMU10/MG-004	Ranggom KGU		
5	ALFRED BIN PIUS	910602-12-6237 (24 TAHUN)	SFD/FMU10/MG-005	Pangas Ulu, KGU		
6	AUBREY JOE JOSEPH UNSOH	880225-12-5735 (27 TAHUN)	SFD/FMU10/MG-006	Timbou, TBN		
7	CELESTINA KHETTY KILING	960221-12-5826 (19 TAHUN)	SFD/FMU10/MG-007	Tuawon, SOOK		
8	DAMASUS JUSTIN	831204-12-5049 (32 TAHUN)	SFD/FMU10/MG-008	Kapayan Lama, TBN		
9	DAVEN JUBILI	950411-12-5983 (20 TAHUN)	SFD/FMU10/MG-009	Kapayan Baru, KGU		
10	DEVILYSIA VINCENT	950911-12-7010 (20 TAHUN)	SFD/FMU10/MG-010	Sinua, SOOK		
11	DOLINE @ DAULIN BIN IKUNG @ IKON	710821-12-5561 (44 TAHUN)	SFD/FMU10/MG-011	Sinua, SOOK		
12	ELSETAH LEO	941102-12-6312 (21 TAHUN)	SFD/FMU10/MG-012	Kirokot, TBN		
13	ENDERIOS DANIEL	850724-12-6321 (30 TAHUN)	SFD/FMU10/MG-013	Sinua, SOOK		
14	ENJON BIN MANING	910831-12-6679 (24 TAHUN)	SFD/FMU10/MG-014	Sinua, SOOK		
15	ERLY HAIRIE IBID	910618-12-6311 (24 TAHUN)	SFD/FMU10/MG-015	Sinua, SOOK		
16	FAIRUZ N. YAHYA	840415-12-5473 (31 TAHUN)	SFD/FMU10/MG-016	Kipaku, TBN		
17	FERLIANA IBID	930902-12-7192 (22 TAHUN)	SFD/FMU10/MG-017	Sinua, SOOK		
18	HAZLEE ROBERT	891016-49-5063 (26 TAHUN)	SFD/FMU10/MG-018	Sinua, SOOK		
19	HELEN PIUS	920123-12-6634 (23 TAHUN)	SFD/FMU10/MG-019	Kiawayan, TBN		
20	HENRY BIN SAMY	960420-12-6493 (19 TAHUN)	SFD/FMU10/MG-020	Pangas Ulu, KGU		
21	JAIRY JIMI @ IMUR	880523-49-5187 (27 TAHUN)	SFD/FMU10/MG-021	Sinua, SOOK		
22	JAKRRY JAUMI	950718-12-5937 (20 TAHUN)	SFD/FMU10/MG-022	Kapayan Baru, KGU		
23	JAMAL BIN JANI	850123-12-5323 (30 TAHUN)	SFD/FMU10/MG-023	Bkt Merah, KGU		
24	JAUDI GOUSANG	760511-12-5051 (39 TAHUN)	SFD/FMU10/MG-024	Sunsuron, TBN		

25	JAUEDIN BIN EPUS	971116-12-6335 (18 TAHUN)	SFD/FMU10/MG-025	Sinua, SOOK
26	JEKLOS BIN MICHAEL	910121-12-5911 (24 TAHUN)	SFD/FMU10/MG-026	Pangas Ulu, KGU
27	JELVEINA BTE JAUMI	930706-12-6336 (22 TAHUN)	SFD/FMU10/MG-027	Kapayan Baru, KGU
28	JOSEH BIN EPUS	910411-12-6197 (24 TAHUN)	SFD/FMU10/MG-028	Sinua, SOOK
29	JOSEPH MARIUS	890320-12-5169 (26 TAHUN)	SFD/FMU10/MG-029	Pangas Ulu, KGU
30	JUILAN SIGOH	850704-12-5188 (30 TAHUN)	SFD/FMU10/MG-030	Tinompok Liawan, TBN
31	KENNEDY NYCHOLAS	920825-12-6583 (23 TAHUN)	SFD/FMU10/MG-031	Kapayan Baru, KGU
32	LAINOL MICHAEL J. GIDAM	880225-12-5419 (27 TAHUN)	SFD/FMU10/MG-032	Timbou, TBN
33	LAWRENCE LEBI	940320-12-6551 (21 TAHUN)	SFD/FMU10/MG-033	Tuawon, SOOK
34	LESTER JAUMIN	900731-12-5995 (25 TAHUN)	SFD/FMU10/MG-034	Sinua, SOOK
35	LORENZO JULI	881113-12-6199 (27 TAHUN)	SFD/FMU10/MG-035	Kapayan Lama, KGU
36	MARTY JANETER JUBERIN	920527-12-6649 (23 TAHUN)	SFD/FMU10/MG-036	Tuawon, SOOK
37	MD ABD RAZAK BIN SALLEH	830605-12-5125 (32 TAHUN)	SFD/FMU10/MG-037	Kapayan Baru, TBN
38	MD ELYAS BIN YAHYA	900402-12-5513 (25 TAHUN)	SFD/FMU10/MG-038	Kipaku, TBN
39	MILDA DANIEL	871103-49-5848 (28 TAHUN)	SFD/FMU10/MG-039	Sinua, SOOK
40	MOHD AZMI SALLEH	920101-12-6959 (23 TAHUN)	SFD/FMU10/MG-040	Kapayan Baru, TBN
41	MOHD HAZIM AB BIN MAILON	920601-12-6867 (23 TAHUN)	SFD/FMU10/MG-041	Tangaban, TBN
42	MOHD HAZMI HAMZI JEFRIN	931104-12-6253 (22 TAHUN)	SFD/FMU10/MG-042	Tangaban, TBN
43	NIKLOS JINUS	920421-12-7045 (23 TAHUN)	SFD/FMU10/MG-043	Pangas Ulu, KGU
44	OSWARD INSUI	760430-12-5965 (39 TAHUN)	SFD/FMU10/MG-044	Tondulu, TBN
45	PAULDRIK BIN PAULUS	760112-12-5871 (39 TAHUN)	SFD/FMU10/MG-045	Nambayan, TBN
46	RAYMOND ALEXANDERIA	960107-12-6825 (19 TAHUN)	SFD/FMU10/MG-046	Pangas Ulu, KGU
47	ROMEO JULIUS	910622-12-6701 (24 TAHUN)	SFD/FMU10/MG-047	Sinua, SOOK
48	RYAN MARIUS	911026-12-5555 (24 TAHUN)	SFD/FMU10/MG-048	Kapayan Baru, KGU
49	SAINDY SAIDIN	890626-12-5031 (26 TAHUN)	SFD/FMU10/MG-049	Tuawon, SOOK
50	SEVERINUS SIGOH	870117-49-6089 (28 TAHUN)	SFD/FMU10/MG-050	Liwan, TBN
51	SHED GAMIN	920619-12-6523 (23 TAHUN)	SFD/FMU10/MG-051	Sinua, SOOK

52	TAINIS BIN IKON	680816-12-5327 (47 TAHUN)	SFD/FMU10/MG-052	Sinua, SOOK
53	VITUS ALEXIUS	980509-12-6367 (17 TAHUN)	SFD/FMU10/MG-053	Kapayan Baru, KGU
54	WALTER LABBIE	850420-12-6277 (30 TAHUN)	SFD/FMU10/MG-054	Tuawon, SOOK