

1. INTRODUCTION

Being the third AWP for FMU 10 after the revision of the Conservation Area Management Plan (CAMP) that was approved in 2013, it still describes the Twelve (12) strategies together with their implementation schedule in 2015 planned by relevant members of the Management Planning Core Team (MPCT) for FMU10. It also specifies 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. This AWP therefore is the guiding document for the field implementers 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 in 2015.

2. FMU 10 (TAMBUNAN)

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

2.1 Management Zones

A total of Seven (7) Management Zones had been identified for FMU 10 to cater for the different usage and management prescriptions for the conservations of the Four (4) identified targets (**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.
Zone 4:	Controlled Hunting Area that extends over some 6,000 ha in the Ulu Monsok and Ulu Rompon area (denoted as H compartments in the map) (some areas may be included as rehabilitation areas)
Zone 5:	Eco tourism Area covering the climbing trails that extends not more than 4.9 km of climbing distance 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 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 that may extend not more than 4,000 ha to be gazetted under the Land Ordinance 1968.

2.2 Objectives

The FMU 10 is delineated as a Forest Conservation Area to allow for the achievement of certain goals in conserving the Four (4) conservation targets (**Table 2**). Commercial timber harvesting or large scale collections of any terrestrial and aquatic flora and fauna from this FMU are strictly prohibited. In accordance to the conservation targets goals set above and the management zones prescribed for FMU 10, the following objectives are set for 2015

- 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) Rehabilitation of 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 TMFR and the whole of SKFR as well as the maintenance of these boundaries to ensure proper surveillance and prosecutions of offenders as prescribed under the Forest Enactment 1968 as well as the Wildlife Conservation Enactment 1997 could be conducted in FMU 10.
- 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.

Table 2: Conservation Targets and Goals for FMU10

Conservation Targets	Conservation Goals
Upland Mixed Dipterocarp Forest (UMDF)	Restoration of fire degraded and encroached areas with native species
	To ensure zero fire, encroachments, poaching, and illegal timber extraction occurrence 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
Rajah Brooke's Birdwing <i>(Troides brookiana brookiana</i> Wallace)	Determination of the species' distribution and habitat by 2018

3. OPERATIONAL STRUCTURE AND BUDGET

3.1 Operational Responsibilities

Deputy Director (Management), Rahim Sulaiman, is given the trust to coordinate and facilitate the execution of this AWP, in accordance to his task as the Chief Implementer / Chairman for the MPCT for CAMP FMU 10.

The main field implementers of the CAMP in 2015 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. It is also very sadly, that the team lost a member on 14th January 2015. The Late Hj Abd Rahman Awang Tuah's task will be given to Puan Marjiah Othman. Due to the mandatory retirement, there will be a reduction of five (5) members of the MPCT. **(Table 3)**. **Figure 1** describes the Organisational Structure in implementing the Revised CAMP and the AWP. **Table ()** summarises the various responsibilities assigned to implement the strategies in 2015.

Table 3: List of staffs to retire in 2015

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

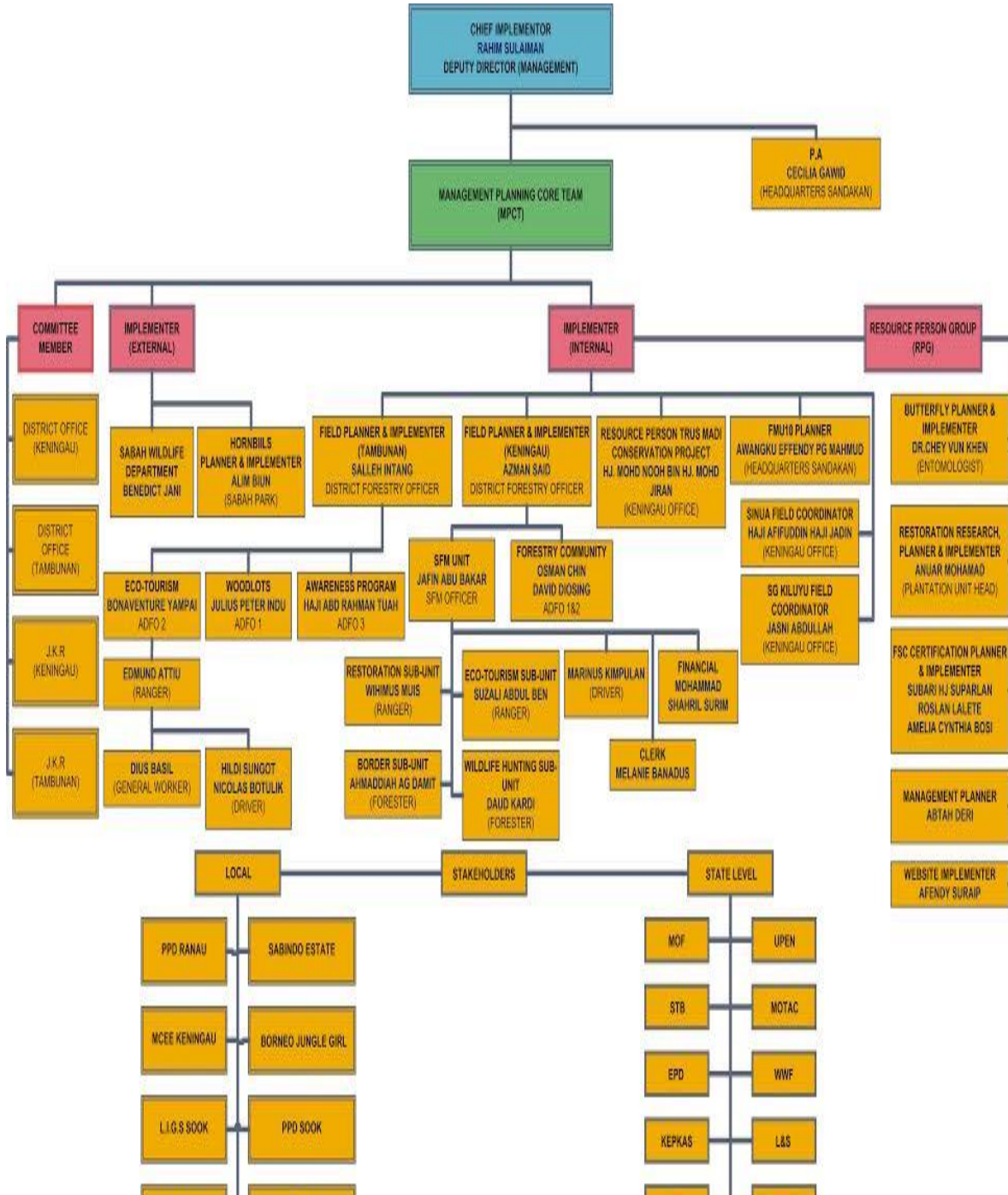


Figure 1: Organisational Structure for Implementing the Revised CAMP FMU10

Table 3: Responsibilities in Implementing the Revised Conservation Strategies for FMU 10

No	CONSERVATION STRATEGIES	IMPLEMENTERS
1	Boundaries Demarcation And Maintenance	K(FRM) Of Headquarters Assisted By DFO Keningau And Tambunan
2	Conduct Surveillance Activities	DFO Keningau And Tambunan Assisted By ADFO Tambunan Bonaventure Yampai, Pn Marjiah Othman, Jasni Abdullah, SFMO Jafin A Bakar And SFC Haji Afifuddin Jadin, Injksin Hj Usip
3	Forest Restoration	DD (MGT) And DFO Keningau Assisted By SFMO Jafin Abu Bakar and FMU10 PO Awangku Effendy Pg Mahmud.
4	Formulate Suitable Visitation Mechanism And Flora/Fauna Collection Procedures	Committee Headed By DD (MGT) Assisted By SFC Haji Afifuddin Jadin as the Secretariat
5	Upgrading And Maintenance Of Relevant Infrastructure	DFO Keningau And Tambunan Assisted By Bonaventure Yampai From DFO Office Tambunan, Jafin abu Bakar, FMU10 PO Awangku Effendy Pg Mahmud, Jasni Abdullah And SFC Haji Afifuddin Jadin
6	Implement Relevant Community Forestry Activities	DFO Keningau And Tambunan Assisted By FMU10 PO Awangku Effendy Pg Mahmud, Jasni Abdullah,

		Jafin Abu Bakar And SFC Haji Afifuddin Jadin, Petrus Saigol)
7	Develop And Implement Controlled Hunting Plan In Ulu Rompon And Ulu Pangas	DFO Keningau assisted by Sabah Wildlife Department (Keningau) and SFMO Jafin A Bakar and Faizal Basirin
8	Establish Community Woodlots In Stateland Area Near Kg. Kaingaran In Tambunan Adjoining FMU 10 Area	DFO Tambunan Assisted By Haji Mohd Nooh Jiran (Resource Person of Trusmadi Conservation Project) And ADFO Tambunan Julius P Indu
9	Understanding Of The Target Species Through: A) Inventory Of Hornbills By 2018 B) Inventory Of Rajah Brooke And Their Host Plants By 2018	Alim Biun Of Sabah Parks And Dr Chey Vun Khen of FRC Sepilok
10	Implement Relevant Conservation Awareness Programmes Including Website Maintenance	DFO Keningau And Tambunan Assisted By Pn Marjjah Othman FMU10 PO Agku Effendy Pg Mahmud And Afendy Suraip Of FRC Sepilok
11	Scientific/Biodiversity Study	Team leads by FRC Sepilok coordinated by Mr John Sugau and Pn Andi Maryani Mustapeng)
12	Collaborate With Adjacent Landowners At Relevant Boundaries Of FMU 10	DFO Keningau And Tambunan Assisted By SFC Haji Afifuddin Jadin and Jasni Abdullah

3.1.1 Existing Manpower under SFD

The total available manpower under SFD is Thirty six (36) personnel. However, only Twenty four (24) personnel are considered working fulltime in implementing the CAMP. The other seven (7) personnel are part time active implementers of the CAMP. **Table 4** summaries the manpower involved in implementing the CAMP under SFD.

Table 4: Summary of Current SFD Manpower for CAMP Operation in 2014

No	Designation	Personal	Grade	Status	Total
1	Deputy Director (Management) (DD) MGT	Rahim Sulaiman	Q54	P	1
2	Senior Research Officer (SRO)	Dr. Chey Vun Khen Hj. Anuar Mohd John Baptist Sugau	Q54	P	3
3	Assistant Conservator of Forests (ACF)	Hj Mohd Nooh Mohd Jiran* (Resource Person Trusmadi Conservation Project) Azman Said* (DFO Keningau) Salleh Intang* (DFO Tambunan) Jafin A Bakar* (SFMO) AgKu Apandi Pg Mahmud (FMU10 PO)* Abtah Deri (FRM Officer)	G41	P	7
4	Research Officer	Andi Maryani Mustaping	Q41	P	1
4	Pen.Pem.Hutan Kanan	Julius P Indu Hj Afifuddin Jadin (SFC)*	G32 G32	P	2
5	Pen. Pemelihara Hutan	Bonaventure Yampai * Jasni Abdullah*	G27 G27	P	2

	RHK	Pn Marjiah Othman	G22	P	1
6	Renjer Hutan(RH)	Wihimos Muis (Kngu)* Suzali Abd Ben(Kngu)*	G17 G17	P	2
7	Pengawas Hutan Kanan (PHK)	Daud Kardi(Kngu)*	G 14	P	1
8	Pengawas Hutan	Edmund Attiu(Tambunan)* Ahmahdiah Awg Damit (Kngu)* Faizal Bin Basirin (Keningau)	G 11	P P P	3
9	Research Assistant	Nasrah Yusof	Q17	P	1
10	Perakaunan Perkeranian	Sharil Surim* Stephanie Grace Julius	W17 R1	P P	1 1
11	Driver	Marinus Kimpulan (Kngu)* Hildi Sungot (Tambunan)* Nicholas Batulik (Tambunan)*	R3	P P P	3
12	PRA	Dius Basil (Tambunan)* Wasinin Wasi (Keningau)* Sidi Laimin (Keningau) Lawrence Jumil(Tambunan)* Welbert Bitty (Keningau)* Athur Nicholas (Keningau)* Hyally Yahya (Tambunan)	R1	T	7
Note: P – Permanent T- Temporary					
* - Working Full time on CAMP FMU 10 (24 personnel)				Total	36

3.1.2 Manpower outside SFD

A total of five (5) personnel are available from the various government agencies (**Table 5**). 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. Except for the SWD, 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 5: Summary of Manpower for CAMP Operation provided by other MPCT Partners

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

3.1.2 Existing vehicles under SFD

Table 6 describes the existing Fourteen (14) Motorised vehicles for the CAMP implementation, comprising of Twelve (12) Motor Vehicles and Two (2) Motorcycles.

Table 6: Vehicles Available for use for CAMP FMU 10 in 2015

Item	Vehicles	Unit	Registration Number	Utilisation Age (yr)	Assigned To
1	Toyota Fortuner	3	<ul style="list-style-type: none"> • SAA 2008R • SAA5139N • SAA5140N 	<ul style="list-style-type: none"> 9 10 10 	<ul style="list-style-type: none"> DD (MGT) DFO Keningau DFO Tambunan
2	Toyota Double Cab	9	<ul style="list-style-type: none"> • SAB3930A • SAB3927A • SAB3934A • SAB3937A • SAB3924A • SB3974B • SB3965B • SB6308B • SB6309B 	<ul style="list-style-type: none"> 6 6 6 6 6 4 4 3 3 	<ul style="list-style-type: none"> 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	2	<ul style="list-style-type: none"> • SAB8661G • SAB8659G 	<ul style="list-style-type: none"> 3 3 	<ul style="list-style-type: none"> DFO Keningau Office DFO Keningau Office
	Total	14			

3.1.4 Maintenance Costs of Vehicles

Table 7: Estimated cost for maintenance of 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 7.1: Estimated cost for maintenance of 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

The estimated cost for vehicles maintenance is expected to be **RM 471, 210** as indicated in **Table 7** and **Table 7.1** respectively.

3.2 Budgets for 2015

Table 8 describes the budgets and their sources as well as the amount approved for CAMP FMU 10 in 2015. At the time of writing, not all of the warrants for the various Budgets have yet to be received. The first four (4) budgets have to be spent within the year of 2015 . 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 2015 will be done using the K75 budget and D11.

Table 8: Budget Available for CAMP FMU 10 in 2015

Item	Budget Approved	Balance Amount Jan 2015 (RM)	Source of Fund
1	Implementing CAMP Strategies for FMU 10, TMFR (ICFMU10) 2008 K75	858,518.82	Forest Rehabilitation Fund
2	Restoration of TMFR, Keningau Forestry District (RTMFR2) 2012	191,056.00	Forest Rehabilitation Fund
3	Rehabilitation of Burnt Areas in FMU10 (RBAFMU10)	1,000,000	UPEN (State)
4	Projek pembinaan kemudahan pelancongan Pendakian di kawasan pemulihan Hutan Simpan Nuluhon Trusmadi (FMU)	500,000	KePKAS (State)
	TOTAL	2,549,574.82	

3.3 Forest Certification

Progress in 2014

The 27 gaps identified during the baseline – assessment has been continuously acted upon. On 25th Ogos 2014 to 29th Ogos 2014, pre-assessment was conducted by the Assessor from the Global Forest and Trade Network (GFTN) lead by Dr Yap to see the possible

gaps identified based on the Principles of the FSC. The findings of the audit exercise were presented during the closed meeting chaired by Deputy Director (management) Mr Rahim Sulaiman on behalf of the Director. In general, the observation after the pre-assessment indicated that there were tremendous improvements as the gaps and issues elaborated by Dr Yap has become a few. All the necessary actions are to be closed before the full evaluation to be carried out.

Full evaluation on the FMU 10 was finally conducted on 15th December 2014 to 19th December 2014. As a follow up of the evaluation, a closed meeting to present the findings of the full evaluation was held on 19th December 2014 in Sandakan Forestry Headquarter. The meeting was chaired by the Deputy Director (FSP) on behalf of the Director. The findings found during the full evaluation were 13 minor CAR and 6 Observations (**Appendix ??**). The crucial gaps that needed more attention were on the boundary survey and social issues. All these minor gaps particularly the critical ones are to be closed before the next surveillance. The amount of RM 111, 270.43 has been utilized for this activity in 2014.

Activity 2015.

It is envisaged that the certificate will be issued by FSC not latter than the first quarter of the year. All the Gaps must be closed by the next surveillance of which is to be conducted by the third quarter of the year. A sum of RM 70,000.00 will likely be required for the purpose.

4. STRATEGIES IMPLEMENTATION IN 2015

All of the Twelve (12) strategies and the Twenty Three (23) strategic actions under the Revised CAMP for FMU10 will continued to be implemented in 2015. The summary of the Strategies and strategic actions for implementation in 2015 and their respective expenditures are described in **Appendix 2**. The Monitoring of the Conservation Targets are described in **Appendix 3**. The details of each strategy are as follows:

4.1 Strategy 1: Boundary Demarcation and Maintenance

4.1.1 Trusmadi Forest Reserve

The Forest Resource Management (FRM) Division of Headquarters is assigned to carry out this task. The initial assessment made in 2009 of the outer boundary of the Trus Madi Forest Reserve by the Division revealed a total length of **136,400 meters (m)** to be surveyed for demarcation on the ground. For practical reason, the total length of the boundaries was divided into three (3) parts namely Part A in Tambunan Forestry District (**54,800 m**), parts B (**51,500 m**) and finally Part C (**35,500 m**), both of which is under the Keningau Forestry District.

As of December 2009, both Part A (Kg. Tiwag to Kg. Ulu Monsok) and Part B (Kg. Ulu Monsok to Kg. Batu Lunguyan) were successfully surveyed and demarcated on the ground. 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. Due to the unavailability of fund, survey and demarcation work for Part C (Kg. Batu Lunguyan to Kg. Sinsuron) was not done in 2010 and 2011. Similarly, due to funding constraints in 2010 and 2011, only some portions of the boundaries, namely Part A were maintained and erected with SFD Plates.

4.1.2 Sg Kiluyu Forest Reserve

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 **6th August 2012**, via Contract NO. **JP/SP/PPA-FMU10/PSHS/02/2012**. The work was scheduled to be completed within 48 weeks. However up to the end of 2013, work has yet to begin. The cost of this survey is **RM94, 923.00** was supposed to be borne under the **HoB projects** in 2013.

4.1.3 **Progress in 2014**

A Contract for the survey of Part C of the Trus Madi 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 5th 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 10th 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 26th June 2013, the remaining work for Part C, covering a total distance of 17,697 m, did not commence until the end of the year. The Contractor also failed to renew the contract that expired on the 22nd April 2013. Towards the end of the 2014, the contractor did not proceed with the remaining work despite several letters of remind given to them. This is because of the unresolved conflict of boundary which involved the adjacent kampong peoples. As directed by the Director, this strategy is to be continued and be implemented in 2015 by proper mechanism. The District Forest Officer of Keningau will follow up and the matter.

In Tambunan Forest District, the survey work of the Sg. Kiluyu Forest Reserve boundaries stretching some 19,900 m which was executed between SFD and the Jurukur Swasta of Kota Kinabalu on the 6th August 2012, via Contract NO. **JP/SP/PPA-FMU10/PSHS/02/2012** with the cost of RM 94,232.00 also not fully completed. Up to the end of 2014, the contractor was not able to execute any of the remaining contracted work despite renewal of the RSP from 22.10.2013 to 22.10.2014. It was also reported that the survey work was not done properly on the ground including not establishing the 5 meter width of the surveyed boundary as required. The relevant ground report from District Forest Officer of Tambunan has been submitted to K(FRM) for further action.

4.1.4 Activities in 2015

As a follow up action, a meeting was held in Sook with the adjacent villagers chaired by DFO Keningau to discuss the issue related to the continuation of boundary demarcation. In principle, the villagers agreed so that survey of the boundary is to be continued.

At the time of writing K(PPA) has yet to issue an appointment letter to Juru Ukur Swasta for the continuation of the part C boundary survey of Nuluhon Trusmadi (17,697 m). As for the boundary survey of Sg. Kiluyu Forest Reserve which was completed by Syarikat Jurukur Swasta, further verification ground are needed to be done by the contractor. Verbal notification to K(FRM) has been done. At the time of writing action as yet to be done by K(FRM). To expedite action it is suggested Technical Committee headed by TP (Mgt) will be established to monitor this activity further.

In view of the incapability of the man power from K(FRM) **Table :?** It is suggested that in 2015 this activity is to be done by the villagers particularly at part B and part C. The cost estimated RM 70,000.00 from D11. Additional wordings of "1st Gazzeted in 1960" will be inserted on all the existing along the boundary. PH Ahmadiyah and PH Daud Kardi will lead the implementation of the activity.

Table : ? Schedule of Boundary Maintenance in 2015

No	Quarter	Frequency	Part
1	April – June	1 X	Part B
2	July - September	1 X	Part C
	TOTAL	2 X	

4.2 Strategy 2: Conduct Surveillance Activities

This strategy was entrusted to ADFO Bonaventure Yampai and the late Haji Abdul Rahman Tuah for the Tambunan area, SFMO Jafin A. Bakar for the Apin – Apin area and SFC Haji Afiffudin Jadin for the Sinua area. Field staffs from Tambunan and Keningau would be doing the ground patrolling.

4.2.1 Progress in 2014

For management purposes, the FMU 10 was divided into three (3) Mukims under Tambunan Forestry District and one (1) SFM unit under Keningau District . The Mukims were Kirokot, Toboh and Lintuhun while the SFM Unit is under the SFM Officer of Keningau Forest District. There were three (3) main access Roads to the Trusmadi Forest Reserve via the Tambunan - Kaingaran route (Tambunan), Kepadayan to Apin – Apin route (Keningau) and Keningau –Sinua route (Sook, Keningau). The Sg. Kiluyu Forest Reserve has no accessible road yet. 24 hours manned gated entrance and checking stations had been constructed at both the Kaingaran and Apin-Apin roads. Therefore, strict checking and entrance enforcements were done for both stations.

The Sinua entrance had not been accorded any gated entrance and checking station due to the lack of staff to man the facilities as well as the unavailability of funding. However, this station was still safe from unwanted trespassers and forbidden activities as the Villagers of Kg Sinua acted as the “custodians” on behalf of SFD. This was done through a well-organized collaboration with the kampung folks under the Sinua Ecotourism Management Committee. Constant and active communications between the Sinua representatives (Laimin Dadau and Denis Ikon) and the Sinua Field Officer (SFC) Haji Afifuddin Jadin was maintained throughout the

year. Apart from being surveillance ranger for SFD, their other main tasks were as Tourist Guides and Porters for the climbing activities through the Sinua route. A part from that about 45 locals were trained as honaray ranger in ??(List as provided in **Table:** ()

Both ground patrol and aerial surveillance which had proven to be effective in policing the FMU10 were done in 2014. However, due to the increasing work load of the relevant officers besides the unsafe condition of the weather, The air surveillance was only done once in 2014. A specially designed reporting form (Borang Pemantauan FMU10 -01) was used to record and logged all ground patrols and aerial surveillances. The FMU 10 was largely free from any incidence of threats of fire, and poaching during the year. Nevertheless, one encroachment was detected at Apin-Apin area of FMU 10 and action to destroy the newly planted oil palm has been executed.

4.2.1 Activities in 2015

Surveillance activities will be carried out in accordance with the **Table (?)**. Mr Injksin Hj Usip of MCEE Keningau will lead the aerial surveillance every quarters of the year.

Table : Schedule Aerial Surveillance in 2015

No	Quarter	Frequency
1	January - Mac	1 X
2	April – June	1 X
3	July - September	1 X
4	October - December	1 X
	TOTAL	4 X

4.3 Strategy 3: Forest Restoration

The objective of this strategy is to restore some 22,000 ha of burnt and degraded areas with indigenous species only. This area covers about 29 % of the FMU 10 total area. Three (3) sources of funding will be used in 2014. DD (MGT) Rahim Sulaiman is the main implementer under the

RBAFMU10 budget. The DFO Keningau is the implementer for the RTMFR1 and RTMFR2 funding. SFMO Jafin A. Bakar and Awangku Affendy are the field supervisors for both activities.

4.3.2 Progress in 2014

The actual budget allocated in 2014 for this activity was RM 2,000,000.00 . Two maintenance activities involved RM 331,400.00 which covered about 950 ha out of 1160 ha were done in 2014. This is due to some unavoidable circumstances, particularly on the sustainability of funding, and the need to carry out road maintenances and other necessary works such as allowances, certification and transport maintenance. No new plantings were done in 2014, due to the limited funding.

Activities in 2015.

The allocation for this strategy has been reduced from 2 million to only 1 million by the Ministry Of Finance. Additional 1 million will be applied and hopefully will be brought up in April sitting .components are as **Table:??**

4.3.3 Activities in 2015

As mentioned earlier, this strategy would be headed by both DD (MGT) Rahim Sulaiman and the DFO of Keningau. They will be assisted by SFMO Jafin Abu Bakar.

The maintenance of earlier plantings done in since 2009 would be continued in 2015. The total cost for the three (3) maintenance activities is estimated at RM 603,056 (**Table 12, 13 &14**). All the work will be contracted out by early March.

Table 12: Maintenance Schedules for the Planted Areas in FMU 10 in 2015

Area Planted (Ha)	Year Planted	2014	2015
		Maintenance Of Planted Area	Cost Of Maintenance
160	2009-2010	X	191,056(PPM)
700	2009-2010	X	250,000(D11)
300	2011-2012	X	162,000(D11)
1,160	TOTAL	3X	603,056

Table 13. Estimated Expenditure for the Maintenance of 160 ha Restoration in 2015

No	Activity	RTM Fund Estimated cost (RM)
1	Supply seedlings@RM5.00 x 9000 anak pokok(30	45,000

	ha)Kapur and seraya bukit.	
2	Replanting 30 ha	30,856
3	Maintenance @ RM180/ha x 160ha x 4	115,200
	TOTAL	191,056

Table 14. Estimated Expenditure RM1 Million for the Restoration in 2015 (RBA FMU10)

No	Activity	RTM Fund Estimated cost (RM)
1	Maintenance @ RM180/ha x 700 x 2	252,000
2	Maintenance @ RM180/ha x 300 x 3	162,000
3	Construction and maintenance of planting road (37km)	111,000
5	Surveillance audit (FSC)	40,000
6	Purchasing Field Equipment	40,000
7	Maintenance and services vehicle	160,000
8	Maintenance and services motorcycle	1,000
9	POL	50,000
10	Allowances	184,000
	TOTAL	1,000,000

Nota: OPTION B

Table 16. Estimated Additional Expenditure RM2 Million for the Restoration in 2015 (RBA FMU10)

No	Activity	RTM Fund Estimated cost (RM)
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1	Site preparation @RM900/ha x 100 ha	90,000
2	Planting@RM500 x 100 ha	50,000
3	Supply seedlings@RM5.00 x300 x 100ha	150,000
4	Maintenance @ RM180/ha x 100 x 4 X 2 years	72,000
5	Fertilizer@RM120/ha x 100 x 4 X 2 years	48,000
6	Nursery Establishment	30,000
7	Marked Baunday@M1.50/meter	30,000
8	Boundry maintenance	70,000
9	Parking Lots (Kaingaran)	60,000
10	Tandas (L/P)(starting point)	60,000
11	Welcome Wooden Signboard (3 units)	30,000
12	Culvert (Jln Ali Hassan)-3 units	75,000
13	Safety Sinages and net -barricade (road sides ,bridges and trails and summit)	60,000
14	Road maintenance	100,000
15	Allowances	75,000
	TOTAL	1,000,000

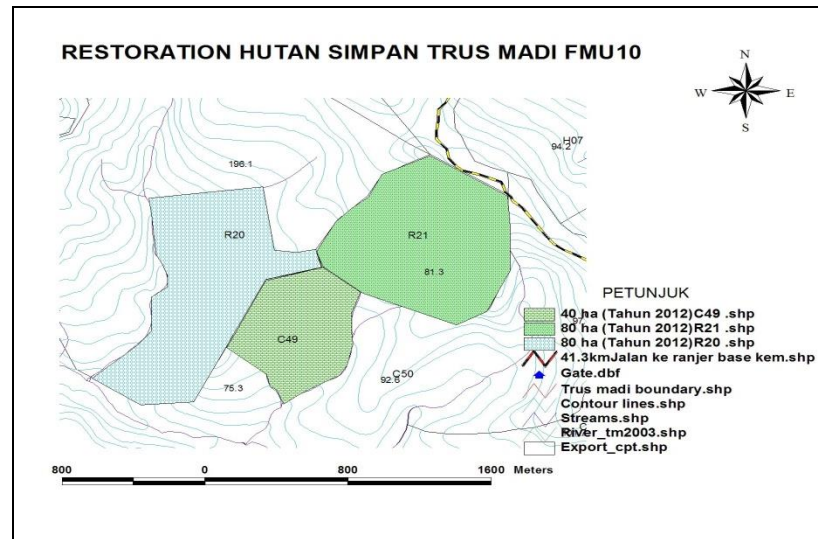


Figure 5: Locations of the Proposed 100 ha Plantings in 2015

2.3.1. Update on Yield plots Establishment.

Upon the request of FMU10 Trusmadi MPCT, Permanent Sample Plots were set-up randomly in the restoration areas in October, 2010. It's main purpose was to assess the survival rates and performance of the planted seedlings within the restoration areas at Apin-Apin, Trusmadi FR. The areas were restored / rehabilitated a year earlier, in august of 2009.

Three permanent plots were set-up based on accessibility on three different compartments chosen at random viz;- Plot 1 in Compartment 24, Plot 2 in Compartment 18 and Plot 3 in Compartment R15. All these 3 compartments were planted in august 2009. Each permanent plot is divided into three sub-plots to represent three slope-range in each permanent plot. The sub-plots were labeled as upper slope, middle slope and bottom slope. Altogether, a total of 9 sub-plots were set-up in the 3 different permanent plots. Each sub-plot consist 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 5 rows and each row contains 15 planting points. With 3 sub-plots, a permanent plot contains 450 planted points. The 3 permanent plots contain a total of 1350 planted points covering an area of 4.725 ha. These 3 Permanent Plots were marked on the ground and assessment of seedlings survival and height were conducted.

General Discussion and Conclusion

- The survival rates of the 3 permanent plots covering a total area of about 4.75 hectares, in 3 different compartments were 38.4% at the age of 57 months after planting.
- 38.4% survival rates translate to about 109 survive seedlings from an original planting density of about 285 seedlings per hectare.
- The lower sub-plots exhibit the highest mortality due to its location at the lower slope which is exposed to mud-rolled and other land slide related natural calamity which adversely affected the seedlings.
- The steep terrain of the rehabilitated areas with mostly at least 40 degrees provide the biggest challenge during planting and in the subsequent maintenance and monitoring activities. The steeper the slope the higher occurrences of land slide anticipated.
- At about 5 years old (by mid 2014) with seedlings not taller than mean height of 2 metres tall, maintenance particularly from climbing creepers that could suffocate seedlings is regarded still deem necessary to ensure remaining survive seedlings to continue to survive, grow and restore the areas.

Activity in 2015.

Routine activity to monitor and data collection of the planted seedlings at the permanent plots as well as to analyse the growth performance is to be continued. However, it also depends on the availability of the budgets. It is envisaged that about RM.8000.00 likely to be utilized. new planting compartment will be in R21 and R20

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

The Non - destructive activities currently allowed in FMU10 since 2009 are adventure tourism, Insect collection and Mountain climbing. One (1) Occupational Permit (OP) is issued to Borneo Jungle Girl (BJG) to operate its adventure Tourism activities located at KM 18 from the Apin –Apin Forestry Checkpoint. A fauna collection License is currently issued to Chewi Entomological Services to collect Insects from FMU10. Mountain climbing is managed under Keningau Forestry Office prior the closure of the Kaingaran route in August 2011. All eco-tourism related activities including mountain climbing as well as any collections activities are based on the Guidelines approved by the Director of Forestry in November 2012. As much as possible, the MPCT had also agreed to use local Dialects, mainly **Dusun** and **Murut** to represent the terms used for ecotourism purposes in FMU10.

The main objective of this strategy is to recommend to the Director all appropriate Guidelines and procedures as well as amendments for fauna and flora collections as well as orderly visitation to Mt Trusmadi through the three (3) climbing routes available, namely, the **Wayaan** (a **Dusun** Term for Trail) **Kaingaran** in Tambunan, **Wayaan Mastan** in Apin – Apin Keningau and **Wayaan Mannan** in Sinua, Sook. The MPCT decided to uphold the two (2) previous Committee Structures and Term of References (TOR) under the previous CAMP. However, they are now merged into a single Committee under DD (MGT) Rahim Sulaiman (**Table 15**). The Pusat Biodiversiti Sabah is represented by Dr. Abdul Fatah Amir in the committee. Meetings will be conducted on a quarterly basis. However should there be any matters of urgency to be handled the committee will convened to make recommendations to the Director of Forestry for his decisions.

The Terms of Reference of the Committee are as follows:

- Revise Climbing Permits Issuance including development of guidelines for visitors and climbing certificate and make recommendation for implementation to the Director of Forestry for approval.
- To review the existing procedures and conditions of flora and fauna collection in FMU 10 and recommend appropriate changes for the approval of the Director of Forestry for implementation
- To review existing procedures and conditions of scientific research permits in FMU 10 and recommend appropriate recommendations to the Director of Forestry for decisions to the relevant authority in Putrajaya and Kota Kinabalu.
- Registration of all local guides and porters with a view of assigning climbing schedule and make recommendation for implementation for the approval of the Director of Forestry.

Table 15: 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	RP Anuar Mohd	Member
9	RP Dr. Chey Vun Khen	Member
10	Dr Abdul Fatah Amir (Pusat Biodiversiti Sabah)	Member

- To receive and appraise any proposal by agencies inside and outside Sabah for collaborative work on conservation in FMU10 and recommend appropriate follow up to the project proponent through the Director of Forestry.
- Review of registration procedure at check point and implement the appropriate changes.
- Revision of the pre and post climbing baggage checks and make recommendation for appropriate changes in the procedure for implementation.
- Holding regular stakeholders consultation with Mount Trus Madi tourist operators, Guides and Porters and implement any appropriate suggestions or changes.
- To evaluate the feasibility of giving a Concession Agreement to Locals or Local Companies to operate the management of the Climbing Activities and Rest house in Kaingaran and make recommendations to the Director of Forestry
- . To hold quarterly meeting of the committee.

Progress in 2014

The climbing route to Mt Trusmadi through the Wayaan Kaingaran remained closed to the public through out the year 2014 due to the on going constructions of tourism facilities on site. The only outlet opened to the public was through the Wayaan Mannan at Sinua. Apart from the usual climbing visitations to Mt Trusmadi, a number of notable events took place in 2014 in FMU10. The event are as follows:

1. In Mei 2014, Mirad Irad Base camp in Wayaan Kaingaran Tambunan was chosen to be the place of District Action Committee Meeting .This meeting was also attended by the Deputy Chief Minister (Tan Sri Datuk Pairin Kitingan) who had the chance to be briefed about the development of Trusmadi Forest Reserve.
2. In June 2014, a meeting related to the flora and fauna collection procedure in FMU 10 was done and some suggestion transpired were as follows:
 - 2.1 To impose charges to all researchers and valid permit must be obtained from SFD.
 - 2.2 To enhance the role of the local communities in ecotourism management of the FMU 10 through the appointment as a “ Malim Gunung or Guide”.
 - 2.3 To publish climbers guidelines in the form of books or pamphlets.
3. 16 students from UMS and 13 from Institut Kajian Pembangunan had done their research work in Trusmadi Forest Reserve in Tambunan District through out the year 2014.

As on October 2011 to December 2014, the Sinua Route recorded a total of **644** visitors (**Table 16**). To add the number of visitors , both District of Keningau and Tambunan also recorded 28 and 23 visitors respectively in 2014 (**Table: and Table :**) The total of visitors indicated an ever increasing numbers of visitations annually. SFD still have a good collaboration with local guides from Sinua. The collaboration on the other hand was the opportunities for the local communities to be actively involved in the ecotourism component of Mt. Trusmadi. The SFD had arranged various courses attended by participants from Kg. Sinua, Kg. Pangas Apin-Apin and Kg. Kaingaran Tambunan to promote the economic well beings of the local populations of Sinua. Among other courses conducted are 'Basic Occupational First Aid (BOFA) Siri 1 & Siri 2' in October 2014 attended by 32 participants including forestry staffs.In September 2014, twenty four (24) locals were selected to attend The Localised Nature Guide Course.The course was sponsored by Jabatan Pembangunan Sumber Manusia (JPSM) and Organised by Borneo Tourism Institute (BTI). The objective of the courses were geared to equip the participants with forestry knowledge apart from being exposed to the basic safety and health understanding.

Table : Visitors to Trus Madi via the Sinua Route (2010 – 2014)

Month	Local Visitors					Foreign Visitors					Total Visitors				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Jan	0	0	0	19	32	0	0	0	0	0	0	0	0	19	32
Feb	0	0	0	1	0	0	0	0	10	0	0	0	0	11	0
March	0	0	11	8	72	0	0	3	2	5	0	0	14	10	77
April	0	0	0	2	13	0	0	0	6	2	0	0	0	8	15
May	0	0	0	7	55	0	0	0	4	4	0	0	0	11	59
June	0	0	13	0	0	0	0	2	5		0	0	15	5	0
July	0	0	7	0	19	0	0	6	0	11	0	0	13	0	30
Aug	0	0	13	13	0	0	0	3	4	6	0	0	16	17	6
Sept	0	0	4	1	53	0	0	8	3	0	0	0	12	4	53
Oct	0	9	1	0	22	0	1	1	1	3	0	10	2	1	25
Nov	0	36	11	20	6	0	1	2	0	16	0	37	13	20	22
Dec	0	45	10	12	0	0	2	11	7	0	0	47	21	19	0
TOTAL	0	90	70	83	272	0	4	36	39	47	0	94	106	125	319

Table : Visitors to Borneo Jungle Girl (BJG) 2014 in Keningau

Month	Local Visitors	Foreign Visitors	Total Visitors
	2014	2014	2014
Jan	0	0	0
Feb	0	3	3
March	0	14	14
April	0	0	0
May	0	2	2
June	0		0
July	0	0	0
Aug	0	0	0
Sep	0	0	0

Oct	0	0	0
Nov	8	1	9
Dec	0	0	0
TOTAL	8	20	28

Table: Pelawat/pendakian melalui Wayaan Kaingaran

<i>Bulan/Tahun</i>	<i>2014</i>		
<i>Perkara</i>	<i>Orang/Tarikh</i>	<i>Agensi</i>	<i>Catatan</i>
Jan			
Feb			
Mac			
April			
Mei			
June	35 (26.06.2014)	Pelatih IPS	Lawatan sambil belajar
Julai	50 (01.07.2014)	Berbagai Jabatan dan agensi	Mesyuarat Majlis Tindakan Daerah. Dihadiri oleh Tan Seri Panglima Datuk Pairin Datuk Kitingan.
Ogos			
Sept			
Okt.			
Nov.			
Dis.	i. 35 (16&17.12.2014) ii. 50 (26.12.2014) iii. 23	i. Audit ii. SFD iii. Awam	i. Audit FMU-10, Trusmadi Tambunan oleh Dr. Yapp dan rombongan ii. Lawatan Pengarah Perhutanan Sabah dan rombongan iii. Pendaki tempatan daripada Daerah Kota Marudu.

	(27&28.12.2014)		
Jumlah	193		Hanya 23 orang sahaja pendaki disebabkan denai pendakian hanya dibuka semula bermula 06.12.2014 sahaja.

4.4.1 Activities in 2015

The opening up of Wayaan Kaingaran, Wayaan Mastan and Wayaan Mannan will create more ecotourism employment opportunities to the local people surrounding FMU10 and increase the visitations to Mt. Trusmadi. SFD has and will continue to train the relevant local communities to operate proper homestay and to be Tourist guides as well as porter services in order enhance the role of the local communities in ecotourism management of the FMU10. The MPCT will continue the collaboration with JPSM (Jabatan Pembangunan Sumber Manusia) and BTI (Borneo Tourism Institute) to provide Localised Tourist Guides courses . The focus for 2015 will be to recruit youth from Apin-Apin and Sinua . Hopefully, funds from JPSM would be continuously made available in 2015.

The management of the Rest House will be privitized to local Operator depending approval of M OF. To ensure the trained local guides and porters (**Table ??**) are utilised fully , to the local operator will be given the preferrance and in arranging the climbing activities.

The routes through Apin-Apin and Sinua remained to be opened to the publics. Local operators namely Trusmadi Adventure Tours (Apin-Apin) and Sinua Tainiskon Camp (Sinua) are given preferrances to arrange climbing activities. Meeting to be conducted every quarter of the year to get input from the certification as well as to ensure that all protocols and guidelines are to be complied and implemented.

4.5 Strategy 5: Upgrading and Maintenance of Relevant Infrastructures

Providing good accessibility and on ground presence in the Trusmadi Forest Reserve 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 ADFO Tambunan, Bonaventure Yampai, SFMO Jafin A. Bakar and SFC, Haji Afifuddin Jadin.

Since early 2013, the main access road from Sook to Kg. Sinua was upgraded to an all weather sealed road by the Jabatan Kerja Raya (JKR) Sabah and is currently around 100 % completed. This has greatly facilitated the mobility and accesibility of the communities as well as tourists into and outside Sinua. The remaining 2 km access road to Wokok Sinua, the starting point, for climbing Mt. Trusmadi through Wayaan Mannan, is adequately maintained by Jabatan Pengairan dan Saliran, being the custodian over the road.

Access road to the Wayaan Kaingaran has also recently been improved through the sealing of the Tambunan – Kaingaran road. This will further add some 4 KM of sealed road, in addition to the 4 KM of Kaingaran – Mesej road that was competed in 2012. The only remaining unsealed road by 2014, are the Kuang Batu 8 Road that is under the long term contract Maintenece (under the Ministry of Finance Sabah) by Syarikat Kekal Mewah Sdn Bhd. This particular stretch of road is the only remaining “bad sector” of the whole networks of road leading to the Tambunan Forestry Check Point and the climbing Starting Point. Fortunately, the Tambunan District Council, the custodian of the Kuang Batu 8 stretch, has agreed to work together with the MPCT for FMU10 to seek additional funding for this road. A budget proposal had been submitted duly to UPEN Sabah in the middle

of 2013. Infact the MPCT had also been asked to provide the details length and locations of both the H S Martyn and the Ali Hassan roads to JKR Sabah. Sabah Tourism had played a big role in highlighting the roads conditions in FMU10 for the subsequent action by JKR Sabah. Hopefully, funding would be made available to maintain or upgrade both roads in the future as indicated by JKR Sabah.

4.5.1 Progress in 2014

The upgrading work for a 2.4 km boardwalk and 20 visitors Rest House at Wayaan Kaingaran, Tambunan continued until the end of the year. Under the initial contract, constructions of the facilities were supposed to be completed by the 8th February 2013. However due to weather conditions, workers recruitments problems as well as late payments by the Kementerian Kebudayaan, Pelancongan dan Alam Sekitar (KeKPAS), Extension of Time (EOT) had to be given twice (2) to Usaha Hakikat Sdn Bhd to complete both components. The first extension was approved until the 20th July 2013 and the second EOT by the 20th November 2013. The initial contract of this project was RM 3,542,995.00. However, due to the negative Variation Order by the Contractor, a sum of RM 545,355.82 was returned to the government. The total amount paid to the contractor is RM 2,997,639.18 in which a sum of RM 237,161.08 was paid as the final interim account payment in 2014. The project was finally completed towards the end of the year and handing over was done on 25th November 2014 witnessed by Deputy Director (management), MCEE Officer, DFO Tambunan and Keningau, representatives from MOTAC, STB, KeKPAS, Majlis Daerah Tambunan as well as FMU 10 staffs. By 5th December 2014, the boardwalk of Wayaan Kaingaran is opened to the public for climbing to Mountain Trusmadi via Tambunan District.

As highlighted in the previous AWP and due to the unavailable fund for this strategy in 2014, the greater part of the year only involved the monitoring work of the uncompleted upgrading work in Wayaan Kaingaran and to improve the basic facilities at Apin – Apin and Sinua. The RM 1,000,000.00 budget approved by KeKPAS in first quarter of 2014 however, was only to be utilized in 2015 and 2016. Thus, the only activity done related with the budget was to prepare the Tender Documents and tender process is likely to be conducted in early quarter of 2015.

In Apin-Apin Keningau, maintenance of the restoration road within the restoration block which involved RM 50,000.00 out of RM 280,000.00 as planned at restoration area has also been implemented. The remaining budget was utilized for the main road maintenance at Jalan Ali Hassan to the starting point at Wayaan Mastan. Another development at Wayaan Mannan in Sinua, was the approval for the issuance of OP (Occupation Permit) by the Director, with area of 0.2 hectare for the camping site at K.S. Khiong point to the local operator guide Mr Denis Ikon.

4.5.2 Activities in 2015

A sum of RM 500,000.00 has been approved in 2015. One (1) suspension bridge crossing the sungai Kaintano Besar, two (2) toilets and water gravity at K.S. Khiong Point are also planned to be built within the year. Tender is envisaged to be called within the first quarter of the year by K (PPA). All specification and documentations has been submitted for vetting by K (PPA) through TP (FSP) office.

Another sum of RM 350,000.00 for the construction of car park and toilets at Kitingan Point, as well as provision for signage has been submitted for funding under STB. At the time writing STB has confirmed the non availability of this fund. Road maintenance will be done in Apin-Apin (Jalan Ali Hassan 51 KM). A Genset shade, staffs and LNG quarters are to be constructed at Taman Sulaiman. A 6 by 20 signboard to be constructed at Apin-Apin and Tulid Road. Maintenance of all climbing Trails are to be done every four months. Regular maintenance of the boardwork will be done as when necessary.

4.6 Strategy 6: Implement Relevant Social Forestry Activities

Progress 2014.

All information as required in the previous work plan related to this strategy was obtained as indicated below:

1. The costing for service contract from 3 Foest Reserves (Mt Adrasy FR, Tanjung FR and Ulu Kalumpang FR) was obtained on April 2014. Based on The Guidelines on the Technical Spectfications and Price Range for the works and Services related to Forest Restoration and

Silviculture Activities provided by K (PPA). The estimated Cost to implement this activity in Keningau within the area 215.34 ha (based on AWP 2014 proposed for nine (9) encroachment areas) is **RM 1,424,452.00 (Table 1)**. However, this activity was yet to be implemented .

2. In regard to Kaimadang encroachment area, data obtained in 2009 was used to estimate the area encroached. The total area is 58.54 hacters with 16 (sixteen) number of the respondances.
3. It was observed that some of the data obtained are not tally on the ground. This involved The Kapayan Baru site where the ground area is 65.122 ha instead of 374.74 ha .The untally survey data was detected by SBS group lead by Mr Jasni Abdullah on May 2014. Thus, corrected resurvey at the related area is to be done. At final assessment for the encroachment done by SBS Group on September to November 2014 , the finding obtained from 8 (eight) Kampung was estimated 835.25 ha.
4. FSC requirement for certification is to estimate so that the encroachment in the FMU 10 area is not more than 5% before full assessment on December 2014. As the whole 21 encroachment areas in FMU 10 is estimated 3,338.18 ha equivalent to 4.4% the requirement from FSC for cetification is met.

Table 1: Estimated Costs Involved of Reforestation Plan For The 215.34 Ha.

Cost Component	Cost Per Unit (RM)	No. Of Seedling Per Ha	Size (HA)	Amount (RM)
Establishment of Nursery				30,000.00
Establishment of block boundary	1.50/meter		40,000 m	60,000.00
Site preparation including clearing and stacking	1,700.00		215.34	366,078.00
Raising and supply of seedlings	3.00	286	215.34	184,761.72
Restoration planting	3.00	286	215.34	184,761.72

Maintenance of planted seedlings for 3 years (based on 3 rounds of maintenance per year) including replacing & replanting dead seedlings	540/year		215.34	348,850.80
Maintenance of Access Road				250,000.00
		Total		1,424,452.24

Note : Budget to be ammended(Revise) for Oil Palm only.

Table 2: Total Estimated Encroachment Areas within Trusmadi Forest Reserve (FMU10)

No.	Encroachment From Villages	Estimated Areas (Ha)
1.	Kaimadang	58.54
2.	Pangas/Mangas Rompangas	12.39
3.	Warisan Tempurung	15.29
4.	Barisan Baru/Semai Bakti	23.10
5.	Kundasang Baru	162.15
6.	Linsudan	167.40
7.	Mailo	156.80
8.	Merapok	131.35
9.	Marasak/Panui	242.50
10.	Merapong	64.40
11.	Tohan Baru	120.72

12.	Kepayan Baru	1,285.38
13.	Luanti Baru	62.90
14.	Sinua	137.62
15.	Tuawon	99.84
16.	Mansiat	35.75
17.	Lalapakon	88.16
18.	Seselungan	3.29
19.	Nandangan	377.89
20.	Mempisas	59.24
21.	Batu Lunguyan	33.47
	Total	3,338.18

Activity 2015.

1. To conduct SIA at the affected 21 location of encroachment areas. The targeted respondents are all the Ketua Kampong, JKKK and two (2) representatives from both genders from each Kampong. (**Table 3**) summarizes the activities to be carried out.

2. To resurvey encroachment area in Sunggala Area (List of four kampong to provide) , Tuawon , Mansiat and Kapayan Baru for submittance to The Director for dication.

Table 3: Strategy Implement Relevant Social Forestry Activities in 2015

NO	Strategic Actions	Estimated Cost (RM)	1	2	3	4	5	6	7	8	9	10	11	12
1.	SIA work for 21 Villages	5,000.00			x									
2.	Submit SIA report					x								
3.	Community consultations (Tambunan, Keningau, Sook)	1,500.00	x							x				
4.	Review surveyed work data and mapping out of all encroached areas	15,000.00				x	x							
	Total estimated cost:	21,500.00												

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

This strategy was 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. Since 2009 a number of activities were carried out to decide on the next course of actions under the Controlled Hunting Strategy in FMU 10 Trus Madi Forest Reserve. The facilities constructed in 2009 were a two room guard post, 12 Pax hunters lodge and a 10 vehicle car park. The facility was also equipped with electricity and gravity water supply. Apart from that some signboards were also erected. In 2010, general regulations signage and sketch map of the location of the hunting trails was erected.

Identification of areas for the development of hunting trail was carried out on 15-21/7/2010. Eventually five (5) trails, each extending 2 KM in length, within the control hunting area were successfully developed. The trails were named as Pelanduk Trail, Landak Trail, Keluang Trail, Kijang Trail and Payau Trail. These activities were implemented with the collaboration between Keningau Wildlife Office staff and staff from other Wildlife Stations. In 2013, a total of six (6) Wildlife inventories were done in the area since 2009. The objective was to determine the population and density of wildlife species especially of game animal (species) as listed in Schedule 3 of the Wildlife Conservation Enactment 1997. Random surveys through transect lines along the hunting trails was done to determine the presence of the wildlives in the area. Sightings, dungs, Claw marks, carccas, wallows, sound and foot prints were used as indicators of their presence. SWD staff from the other districts including headquarters, West Coast, Lok Kawi Wildlife Park, Lahad Datu, Sandakan and Tawau were recruited for this general inventory on wildlife. Attogether, a total of Nine (9) Mammals, One (1) reptilian and 34 species of birds were recorded from the said survey.

Progress in 2014.

The wildlife survey and wildlife courses as planned were not able to be conducted as the wildlife officer incharged of the strategy was transferred to their Headquarters in Kota Kinabalu by the early year of 2014. The only activity done was to conduct maintenance work

at hunting trails by staffs from the Sabah Forestry Department .In the mid of 2014 one new forestry staff Mr Faizal Basirin was assigned to assist and monitor this strategy.

Activity in 2015.

- 1. Wildlife survey by road every month by utilizing newly designed form (Ref:)**
- 2. Wildlife survey by camera trapping (4 units) daily at strategic locations.**

The overall cost to incur is RM 60,000.00

4.8 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. The task to proceed and to implement this strategy was entrusted to DFO Tambunan assisted by ADFO Julius Peter Indu. Resource Person Hj Mohd Nooh Jiran would also be assisting in this strategy.

A quick survey of the villages situated along the fringes of FMU10 in the early days of the planning stage indicated that the houses in those villages are primarily built using chainsaw-cut timber. As for now, those villagers got their timber from their own lots of forest but these privately owned

forests are being converted to agriculture land. It is envisaged that in a not too distant future, wood will be in a very short supply around the Tambunan area, thus putting FMU10 increasingly threatened from illegal wood harvesting.

To abate that threat, it was decided that a community woodlot outside the Trus Madi Forest Reserve should be established. After some deliberation, the area formally issued with logging TOL to Ipang Ganggal, Anthony Dubis, Regina Rundi and Jimmy Jipulis, Intra Bayangan and Alam Semesta which is situated at the headwaters of Namadan and Kaingaran rivers and has a combined area of approximately 3,700 ha was selected. The reasons for selecting this area are, firstly because it could act as a buffer zone for FMU10 and secondly because the soils of the area falls within the Trus Madi soil series, which is best left forested due of its fragile characteristics and therefore not suitable for agriculture development.

The woodlot will be administered and managed by a committee which will be headed by the DFO Tambunan. Members of the committee would include the District Officer of Tambunan, the District Chief of Tambunan and relevant Heads of Department in Tambunan. Through such mechanism, each relevant Department will have a role to play in supporting the management of the Woodlots Strategy. Forestry Department through FMU10 will be entrusted in forest inventory, data analysis and preparations of Comprehensive Harvesting Plan and in seedlings supply.

A sub-committee, to be headed by the Native Chief, will also be formed. He will be assisted by all the village headmen and the Village Development and Security Committee (JKKK) chairpersons from participating villages. Its function will be as a communal work coordinating body. During the days of Forest Guard Peter Lupang Tingkalus way back in 1935, he and a local charismatic Native Chief by the name OKK Tahiban, gather together all bamboo extraction permit holder on an appointed date to carry out communal work to plant bamboo in an area designated to be a bamboo reserve. In this sub-committee, the Native Chief will walk in the shoes of OKK Tahiban to keep tab of all permit holders and to gather and mobilise them to participate in communal work at the woodlot.

A briefing related to the concept and implementation of the community woodlot, the beneficiaries and mechanisms was done at length by Rahim Sulaiman, DD (MGT) in a special meeting with the District Officer and PPHT personals of Tambunan District in the middle of 2009. The Woodlot matter was also highlighted during the Stakeholder workshop in Hotel Perkasa Keningau and was endorsed by all except by delegates from Kaingaran, Ponoroburan and Nandal. Overall the responses were positive especially from The District Officer of Tambunan as Chairman of the committee. However, SFD was advised to apply for the area to the Assistant Collector of Land Revenue (ACLR) Office not only for the purpose of the Creation of the Woodlot but also for gazette purpose. The advice given was supposed to be following the standard procedure for any normal land application. Mapping and documentation was duly done by the DFO Tambunan as per advised.

In 2010, not much progress was achieved. The Land Application was submitted to PPHT Tambunan and given the reference PT NO. 20-10140023 but unfortunately, the land application was not tabled at any of the LUC meeting in 2010. It was later understood that a working paper was needed. A working paper was submitted to PPHT as requested but still the application was not tabled at the LUC meeting despite all the reminders.

Despite various reminders by DFO Tambunan, hearing of the application was not acceded by the Land Utilisation Committee until the end of 2011. The main reason cited this time around was that the Land and Survey Department was directed by the government to expedite the processing of outstanding land applications from the public yet to be tabled in the Committee Meeting.

Finally the SFD Land Application was brought up and tabled in the Land Utilisation Committee Meeting on 12 Mac 2012 with comments from the District Surveyor from Keningau as follows:

- The area applied by Sabah Forestry Department also fall within the water catchment area of Sag Kaingaran being applied by Jabatan Pengairan Sabah under Land Application No.PT 2009140029.

- The area applied was also overlapping with a land application under T.O.L.95142010 P 141226953.

The Committee was not able to come up with any recommendation yet with regards to SFD's application. Instead, the SFD was advised to present its case with detail justification in the next Committee Meeting. ADFO Julius Peter Indu duly did the presentation to the Committee Meeting in June 2012. The said meeting of June 2012 again advised SFD to submit a detailed working paper for presentation in the next meeting envisaged to be held in March 2013.

It was noted that not much has been achieved related to the strategy in the previous five years apart from general surveillance of the area from the air and on the ground. The identified and applied area is still subject to the availability of the area on the ground and also depends on the outcome of the Committee Meeting to be held once every quarter of each year. Although the proposed establishment of a community woodlot was endorsed by all stakeholders, including community leaders, its implementation has yet to begin due to unforeseen or grossly underestimated obstacles and hindrance. The biggest hurdle, it seems is the Land Utilisation Committee (LUC).

Unfortunately again this matter, was not tabled in the March 2013 LUC meeting. When ADFO Julius inquired, the Chairman said that because this matter was very much politicised during the election, he instructed LOS Tambunan to refer the matter to the Director of Land and Survey for his prior consent for the committee to process the application. At that juncture the LOS acknowledged that her office had actually received the working paper prepared by SFD Tambunan and that it will be submitted to the Director of Land and Survey together with the land application. The working paper was actually submitted by the DFO Tambunan to the ACLR as prerequisite condition for the processing of Community Woodlot land application.

Towards the end of 2013 the DFO of Tambunan had called up the LOS a number of times to inquire about the progress but was told that the Director of Land and Survey had not given any responds yet. The DFO of Tambunan then wrote a letter to ACLR Tambunan on 15th Nov. 2012 requesting

that the application be tabled in the coming LUC meeting despite Land and Survey Director's silence. And although the ACLR still had not yet responded formally to such request, the LOS had verbally promised to bring the matter up in the coming LUC meeting scheduled to be held in March 2014.

2014 Progress report on Community Woodlot

The community woodlot made very little progress for the year 2014 other than being enlightened by the fact that the land application procedure was not right from the very beginning. In the last LUC meeting, the then LUC Chairman, Mr Alexander Yong, suggested to the Land Office Superintendent (LOS) that this matter be referred to the Director of Land and Survey Department for his prior consent. This, he cited, was highly politicised during the recently concluded 13th General Election. A copy of the letter to this effect was received from the ACLR office but until the time of writing of this report, no reply was ever received.

On the 5th February 2014, DD(MGT) Mr Rahim Sulaiman, Mr Salleh Intang (DFO Tambunan), Hj Mohd Nooh Hj Jiran (FMU10 Resource Person) and Mr Julius Peter Indu (ADFO Taambunan) paid a courtesy call to DO Tambunan, Mr Thomas Logijin (former FMU10 MPCT Member). In the discussion, Mr Thomas Logijin noted that the people living around the proposed community woodlot were not happy about the idea from the very beginning. He believed that these people had taken this matter to the opposition parties who then flared up the issue to garner votes during the 13th General Election.

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 stateland land parcel along FMU10 forest reserve boundary beginning Ranau boundary to the Tambunan/Keningau boundary.

The change in locality was duly agreed by the FMU10 management because it will :-

- serve its purpose as FMU10 buffer zone
- crosses all the mukims of Tambunan which means that all the mukims have community woodlot.

In the LUC meeting on the 3rd March 2014, DFO Salleh Intang informed the chairman about the change in the woodlot locality.

However, Mr Lee, who replaced Mr Alexander Yong as LUC chairman, clarified that the committee do not have the power to process land application of this sort. According to Mr Lee, this case is a government to government case, in which case, the correct procedure is for the Director of Forestry Department to apply to the Director of Land and Survey Department. If approved, the Director of Land and Survey will notify the ACLR accordingly. Only with that notification in hand can the LUC process land application of this sort.

The new woodlot area was also brought to the attention of the community for comments and opinions during the FMU10 Zone 3 Social Community meeting which was held on the 18th June 2014 at the Tambunan District Office and the response was

overwhelming. DFO Tambunan invited only the Village Head and the chairman of the Village Committee for Development and Security from as far as Tampasak Liwan in the North to Monsok Ulu in South to the meeting but not only did they come, Kaingaran, Pononoburan and Nandal representatives even brought with them their main committee members. The other representatives came from Ulu Monsok, Monsok Tengah, Monsok Kuala, Rompon, Namadan, Tampasak Liwan and Nambayan.

The meeting’s resolution, as far as the woodlot is concerned, was that although those representative were convinced and in favour of the proposal, the department must come to their villages and explain to the people what community woodlot is all about. Some even spoke, “Let our people hear for themselves the benefits of having the woodlot and we will try to help you convince them”. Others even said that what they heard during the election campaign regarding the proposed community woodlot was so very different.

Activities for 2015

Activities	2015												
	1	2	3	4	5	6	7	8	9	10	11	12	
1. To prepare all necessary documents required for the Community Woodlot land application and to submit to the Director of Forestry Department for further action.			x	x									
2. Compile a briefing kit				x									
3. Conduct roadshow					x	x							
4. Form Community Woodlot Management Planning Core Team				x									
5. Prepare Community Woodlot Management Plan						x	x	x	x	x			
6. Presentation of Community Woodlot Management Plan to MPCT, District Action Committee and LUC										x	x		

4.9 Strategy 9: Understanding of the Target Species Through:

4.9.1 Inventory of Hornbills By 2018

AWP 2014

Inventory of the Hornbills will be done annually from 2013 until 2018. The actual area and frequencies of the inventory would be decided by Alim Biun of Sabah Parks. An annual expenditure of RM 15,000 is estimated to be required by the team.

Progress 2014.

Due to the commitment of the implementer within their Department , the planned Hornbill Inventory was not able to be carried out.

Activitiy 2015.

A Research Project for Trusmadi Hornbill to be conducted at every quarterly year. **Table** : summarizes the activity . Analizing data and report writing will be done after completing the project towards the end of the year.

Table : Schedule of field work of Trus Madi Hornbill research project for FMU10 -2015

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	After every field work conducted				

* FD: Forest Department * SP: Sabah Parks

4.9.2 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.

Progress in 2014.

The objective of the survey was to ascertain the distributions and to assess the conservation viabilities of Rajah Brooke’s Birdwing in FMU 10. Due to the heavy workloads of FRC and lack of field staffs, no field survey was done in 2014 under this particular strategy.

Activity in 2015.

As no feild survey was done in the previous year, the planned activity would likely to be carried out in 2015. The strategy is remained and to be implemented by **SRO Dr. Chey Vun Khen**. The following are the activities:

- A Survey at Borneo Jungle Girl (BJG) / Expedition.
- Periodic Monitoring to be done twice a year
- Analysis and Report writing

The estimated cost for the survey is RM 32,600 (Table).

Table 23: Implementation Schedule for R. Brooke survey in 2015

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Field Survey			X									
2	Periodic Monitoring						X			X			
3	Data Analysis												X

Table 24: Estimated Expenditure for R. Brooke survey in 2015

Item	Activities	ICFMU10 Budget Costs (RM)	SFD T & T Vote Costs (RM)	TOTAL
1	Research Tools were done	20,000		20,000
2	Allowances (100x7x3x6)		12,600	12,600
	TOTAL	20,000	12,600	32,600

4.10 Strategy 10: Implement Relevant Conservation Awareness Programmes and Website Maintenance

The previous conservation awareness Programmes strategy was headed by the late Haji Abdul Rahman Tuah. The objective was to provide information and to educate the general public of Tambunan and Keningau on the importance of conserving forested areas and general biodiversity. However, beginning the year 2015 the task to lead and implement the conservation programme is under the responsibility of Pn. Marjiah Othman. The task of managing the FMU10 Conservation Area (FMU10CA) website was given to Afendy Suraip of FRC.

4.10.1 Progress in 2014 of the Conservation awareness program

One (1) awareness programs was done in 2014 at Sekolah Menengah Kebangsaan Keningau Dua. The programme was coordinated by the late Tn. Hj Abdul Rahman Hj Awang Tuah. Talks on Forest restoration, Forest Fire protection and Flora and Fauna Biodiversity were given during the program by Timbalan Pengarah (Pengurusan) and other FMU officers. Token of appreciations, in the form of RM 30 gifts hampers, were distributed to the students who participated in the Conservation Quiz organized at the end of the program. The program culminated with the plantings of twenty (20) trees of *Syzygium Campanulatum* (Obah Merah) of the Myrtaceae family at the school compound by the MPCT members and the teachers.

Activity In 2015

This strategy is to be implemented Puan Marjjah Othman assisted by DFO Keningau, DFO Tambunan, Agku Apendy, Hj Afifuddin. Area to be given priority are Kg Mempisas, Kg Nandagan, Kg Sinua ,Kg Kapayan Baru,Kg Kaimadang. Stakeholder consultation will be done 24th Mac 2015.

4.10.2 Update on the Website Maintenance for FMU10

The FMU10 (Tambunan) website is an important tool to disseminate information to various interested audiences. Since 2011, the website's infrastructure and information catered have become obsolete since the data were not frequently updated due to various difficulties. The major problem was mainly because of the complicated procedures to update the site into newer look and updated information. Beginning on the first quarter of 2012, work in construction of new Trusmadi website was initiated headed by Afendy Suraip of FRC. The major objective was to overcome the previous problems by migrating the website's basic HTML website structure to the Content Management System (CMS) platform. This exercise was done to abolish the complicated procedure on updating new data into the website. This on-going work also includes the improvisation and major overhaul of all information in the old website to cater for broader audience in the future. Under the CMS-architecture website, which is an open source content management system, anyone could easily, provided they are given the authority by the MPCT, to update and make the necessary

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

Progress in 2014.

The new Trusmadi website has been officially operationalized in the third quarter of the year 2014 .FMU10's website have successfully converted to a new version (version 2.0) which utilised Content Management System (CMS). This system proved to benefit the FMU10 management to share and update comprehensive information faster than before by cutting down the updating work time and effort by 50%. Thus, it massively improved the dissemination of updated information to netizens as well reducing work-load of the management. The "online-booking" feature are currently developed to further enhance the range of services offered on-line while at the same time cutting costs and time of both FMU10 and public for this purpose. The other crucial inter-SFD service such E-Inquiry and E-Complaint will be integrated in the website as soon as possible to enhance communication with public.

Activity in 2015.

Trusmadi Conservation Area website have successfully upgraded to the planned platform, Joomla! – An open-source Content Management System (CMS). The completed website are currently designed to function within various devices to enable netizens especially the public to understand and obtain information regarding the conservation efforts conducted by this department. This website however still requires an utmost attention for an updated contents from time to time. Thus, the content will be updated as required to enable visitors of the site to gain an updated information to eliminate poor or lack of information regarding this conservation area. In 2015, this website will integrate the Sabah Forestry Department's E-Inquiry and E-Complaint application as according 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 will enable improvisation of services and information of both party (public and the department) which eventually raising the quality standard of FMU10's management. This website is still managed and maintained by Afendy bin Suraip of FRC. An estimated of RM50,000 will be utilised for maintenances of this website, to make purchases and upgrades of IT equipment, and other related costs.

4.11 Strategy 11: Scientific/Biodiversity Study

The main aim of this strategy is to conduct a scientific expedition to explore and study the biodiversity that thrive in this Trusmadi Forest Reserves landscape. The findings from the expeditions were then presented and deliberated in the organised workshop .where

Progress in 2014.

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

Activities in 2015

It is planned that the undoned activity of 2014 is to be forwarded this year. For this purpose , an XPDC in Sg Kiluyu Forest Reserve is to be conducted by early February. Being the 3rd XPDC to be conducted after Kaingaran and Sinua XPDCs, it is expected that the continious effort by the FMU 10 MPCT and FRC to better understand and uncovers the biodiversity and forest in the Sg Kiluyu Forest Reserve will further enhance the management of the Conservation Areas.It is also decided that a forum to share all the gathered saintific informations from the XPDC will be undertaken by the following year.A sum of RM 21,000.00 is reserved for this activity.

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

Progress in 2014

This strategy is assigned to SFC (Sinua Forest Co-ordinator) Hj.Afifudin Hj Jadin. The progress done in 2014 has 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. One of the land owners was given OP (Occupation Permit) for road access in the Forest Reserve. To date, four hundred and fifty six (456) land Title with 2 km radius from and along the FMU 10 forest reserve boundary were obtained from the Land and Survey Department to be analyzed.

Activities in 2015

Special meeting to be conducted coordinated by SFC Hj Afifuddin Hj Jadin. The implementation duration of the activity is as indicated in **Table:**(). Stakeholder Consultation also to be held together on 24th Mac 2015.

Table : Implementation Schedule for strategy 12 in 2015

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Analysed data of land owners based on data from Land and Survey Department			X	X	X	X	X	X	X	X	X	X
2	Meeting and discussion with identified land owners						X	X	X	X	X	X	X
4	Record data based on field inspection and from mapping section FRM									X	X	X	X

5. EXPENDITURE IN 2015

The overall operational and development cost for CAMP FMU 10 in 2015 is estimated at **RM 2,549,574.82 (Appendix 2)**. This estimated cost covers all aspects of expenditure, including allowances, purchasing of necessary Equipments, maintenance and development of infrastructures, field activities and contract services. It is noted that in 2015, the total approved sum for CAMP FMU 10 at the time of writing this AWP is **RM 2,937,851.00**. Given the total estimated expenditure in Appendix 2, it would appear that there will be a budget deficit of **RM 384,876.18**. The deficit is largely due to the Forest Restoration activities, boundry maintenance and surveying as well as the need for maintenance of necessary activities. Thus, some adjustments has to be done on certain activities particularly on actual planted area maintenance and new plantings, and the relevant maintenance parts of some of the infrastructures and activities. A monthly review of this AWP will determines whether additional funding is available from the D11 vote to cover the deficit.

6. CONCLUSION

This AWP is the third of such plan implemented after the revision of the CAMP which was approved by the Director of Forestry in February 2013. Input from the various members of MPCT and RPG was sought in accordance to their area of expertise and responsibilities. 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 and the Twenty Three (23) strategic actions of the approved CAMP FMU10 are continued to be implemented in 2015.

In regard of the Forest certification agenda, the Forest Certification initiatives will continue in 2015, through the preparation report of the 13 minor CAR and 6 observations identified in the full assessment by GFTN conducted on 15th to 19th December 2014. All implementers had been assigned their specific duties.

The total manpower of Thirty six (36) personals from SFD and five (5) personals from the other agencies partners in implementing the required strategies for this FMU 10 AWP appeared to be quite substantial. However, in reality, only about half of the numbers are actually working fulltime. It is imperative therefore that existing cooperation and commitments of all of these personals be executed to the maximum by DD (MGT) Rahim Sulaiman as the Chairman of the MPCT and Chief Implementer. A monthly operational meeting should therefore be done to resolve any problems or deviations that may arise from such cooperations.

A total of **RM 2,549,574.82** budget from various sources has been acquired by the MPCT for funding these strategies and actions in 2015. A total expenditure of **RM 2,934,451.00** is envisaged to be spent. Based on the premises that all of the Twelve (12) strategies and Twent Three (23) strategic actions planned in 2015 have correspondingly been assigned to specific personnel and given the necessary budget allocations and the priority of the activities the success of this FMU 10 AWP for 2015 therefore has a very high probability of being implemented .

Appendix: List of Participants Attended The Honorary Ranger Course on 06th – 08 th 2013 At Sento Hotel Keningau

NO	NAME	I/C NO.	AGE	ADDRESS
1	Tainis Ikon	680816-12-5327	45	Kg. Sinuah P.O.Box 4 Keningau, Sabah
2	Enderios Daniel	850724-12-6321	28	Kampung Sinua Trusmadi Peti Surat 4 89007 Keningau Sabah
3	Enderios Daniel	850724-12-6321	28	Kampung Sinua Trusmadi Peti Surat 4 89007 Keningau Sabah
4	Hendry James	820708-12-5339	31	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah
5	Wahid Bin Egohalik	730803-12-5769	40	Kg. Tuawon, Peti Surat 787,89008 Keningau Sabah
6	Hilary Bin Junggal	870129-49-5235	26	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah
7	Enjon Bin Maning	910831-12-6679	22	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah
8	Makunsil Dungoh	700329-12-5499	43	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah.
9	Fredolin Joseph	841013-12-5387	29	Kg. Sinua, Sook 89000 Keningau, Sabah.
10	Selidius Asun	840425-12-5397	29	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah.
11	Doline@Daulin Bin Ikung@Ikon	710821-12-5561	42	Kampung Sinua , Pejabat Pelajaran Keningau, 89000 Keningau Sabah
12	Varcelli Juakim	840926-12-5627	29	Kampung Sinua Lanas, Pejabat Pelajaran Keningau, 89000 Keningau Sabah
13	Hazlee Robert	891016-49-5063	24	Kg. Sinua, P.O.Box 4, Pejabat Pelajaran Keningau 890007 Keningau.
14	Waidih Paulus	930807-12-6909	20	Kg. Pangas Apin-Apin, Peti Surat 1314, 89008 Keningau
15	Welfray Bin	910926-12-6161	22	Kg. Pangas, 89000 Keningau

16	Jeklos Bin Micheal	910121-12-5911	22	Kg. Pangas Ulu, Apin-Apin, 8900 Keningau
17	Henry Paulus	880705-12-6147	25	Kg. Pangas, Apin-Apin, 89000 Keningau, Sabah.
18	Elvin Joseph	830910-12-5041	30	Kg. Apin-Apin, Keningau
19	Clement Alexandria Amat	931123-12-7083	20	Kg. Pangas Ulu 89000 Keningau
20	Calestha Leo	900211-12-5430	23	Kg. Kirokot 89650 Tambunan
21	Elsetah Leo	941102-12-6312	19	Kg, Kirokot 89650 Tambunan
22	Fandy Siggoh	881201-49-5699	25	Kg. Tinompok Liwan, 89650 Tambunan
23	Hazirih Bin Jauti	870908-49-5955	26	Peti Surat 443, 89657 Tambunan
24	Jerrold Petrus	840809-12-5433	29	Kg. Karanaan, P.O.Box 51, 89651 Tambunan
25	Julian Binti Sigoh	850704-12-5188	28	Kg. Tinompok Liwan, Peti Surat 242, 89650 Tambunan
26	Linus Gonsilou	680720-12-5277	45	Peti Surat 62093, 91128 Lahad Datu
27	Margaret Anthony	911108-12-6228	22	Kg. Maras Karas 89650 Tambunan
28	Renaldy Christopher	880703-49-5571	25	Kg. Tibabar, P/S 445, 89651 Tambunan
29	Severinus Sigoh	870117-49-6089	26	Kg. Tinompok Liwan, Peti Surat 242, 89650 Tambunan

30	Towok Bin Tatoi	610411-12-5069	52	Peti Surat 150, 89007 Keningau
31	Johnny Jackson Vitalis	910330-12-5491	22	Kg. Botung, P/S 248, 89657 Tambunan
32	Steve Stephan	910908-12-5595	22	Kg. Botung, 89650, Tambunan
33	Boniefacio Gerald Bin Banad	930130-12-6113	20	Kg. Sawang Melalap, P/S Bil 200, 89908 Tenom
34	Freston Bin Kaliadu	870109-49-5959	26	Kg. Sawang melalap, Peti Surat Bil 200, 89908 Tenom
35	Jickley Bin Johnary	891217-12-5587	24	Kg. Babalang Melalap, P/S Bil. 316, 89908 Tenom
36	Johnny Jackson Vitalis	910330-12-5491	22	Kg. Botung, P/S 248, 89657 Tambunan
37	Tolentinno Bin Tadin	870620-49-5841	26	Kg. langsung Melalap, Peti Surat Bil 190, 89908 Tenom
38	Adelaide Benjamin	870928-49-5979	26	Kg. Langkuas Kinarut 89600 Papar
39	Rijohn Matanggoh	930524-12-6589	20	Kg. Kandawayan laut, Jln. Ranau, 89100 Kota Marudu
40	Roy Athur Moiji	790909-12-5171	34	P.O.Box 14108, 88847 Kota Kinabalu
41	Saiful Afzan Bin Abd. Rahim	890617-12-5549	24	Kg. Timbua, Peti Surat 75, 89308 Ranau
42	Velbarry J. Jinatin	880820-12-5705	25	Kg. Langkuas Kinarut 89600 Papar

Appendix : List of participants joining the Localised Nature Guide Course

Localised Nature Guide Course (Level II)
Date: 9 - 29 October 2014

Sponsored by Jabatan Pembangunan Sumber Manusia (JPSM)

Organised by Borneo Tourism Institute

Participant Details

NO.	NAME	I/C NO.	SEX	RACE	RELIGION	H/P NO.	ADDRESS
1	ABDUL AFIQ BIN JAIM	911228-12-5801	M	BAJAU	ISLAM	014-8629636	D/A: JAIM SIMEH, SMK KUNDASANG, PETI SURAT 103, 89308 RANAU, SABAH.
2	AHMAD NIJAM BIN MERDEKA	910103-12-5221	M	BAJAU	ISLAM	010-9343103	KG. BOLONG, PETI SURAT 108, 89208 TUARAN, SABAH.
3	AK MOHD SHAHRIN NIZAM BIN HAISSON	930210-12-6279	M	BRUNEI	ISLAM	019-8319608 011-26852435	LOT 133, LORONG 6, TAMAN BAHAGIA, BT 7, 90000 SANDAKAN, SABAH.
4	DAMASUS JUSTIN	831204-12-5049	M	DUSUN	CHRISTIAN	014-5524552	KG. KAPAYAN LAMA, PETI SURAT 195, TAMBUNAN, SABAH.
5	DOLINE @ DAULIN BIN IKUNG @ IKON	710821-12-5561	M	DUSUN	CHRISTIAN	017-8284171	KG. SINUA, PETI SURAT 4, 89007 KENINGAU, SABAH.
6	ELSETAH LEO	941102-12-6312	F	DUSUN	CHRISTIAN	017-8662994	KG. KIROKOT, PETI SURAT 70, 89657 TAMBUNAN, SABAH.

7	ENJON BIN MANING	910831-12-6679	M	DUSUN	CHRISTIAN	013-8876322 013-8851694	KG. SINUA TERUSMADI, SOOK, 89000 KENINGAU, SABAH.
8	HAZLEE ROBERT	891016-49-5063	M	DUSUN	CHRISTIAN	019-5831207	KG. SINUA, SOOK, 89000 KENINGAU, SABAH.
9	HEDEO TINGKONG	930818-12-6971	M	DUSUN	CHRISTIAN	013-8882943	KG. SINUA TULID SOOK, 89000 KENINGAU, SABAH.
10	HELEN PIUS	920123-12-6634	F	DUSUN	CHRISTIAN	013-5445604	KG. KIAWAYAN, 89657 TAMBUNAN, SABAH.
11	IZZAH NASIHA BINTI RABUL	890818-12-5916	F	BISAYA	ISLAM	016-8191430	KG. JAWA ULOI, PETI SURAT 264, 89908 TENOM, SABAH.
12	JAUDI GOUSANG	760511-12-5051	M	DUSUN	CHRISTIAN	019-5804808	KG. SUNSURON, 89650 TAMBUNAN, SABAH.
13	JOEVINUS JUNGAL	890313-49-5049	M	DUSUN	CHRISTIAN	013-2489155	KG. SINUA TERUSMADI, SOOK, P.O.BOX 4, 89000 KENINGAU, SABAH.
14	JOYNDRA EDWIN	890512-12-5120	F	DUSUN	CHRISTIAN	016-8103026	KG. LUBONG, PETI SURAT 183, 89657 TAMBUNAN, SABAH.
15	MARGARET ANTHONY	911108-12-6228	F	DUSUN	CHRISTIAN	014-9561186	PETI SURAT 283, KG. MARAS KARAS, 89657 TAMBUNAN, SABAH.
16	MUHAMAD FADHLY BIN MUHAMMAD SHAH	920821-12-5217	M	BAJAU	ISLAM	016-8448454	TAMAN PURI WARISAN, KG. KALANSANAN, INANAM, BLOK H, TINGKAT 4, NO. 10, 88450 KOTA KINABALU, SABAH.

17	NAZARUL ARDAY @ DATU NAZRUL BIN BUISHLAN	790802-12-5411	M	IRRANUN	ISLAM	0111-9576685 016-8477784	KG. DARAU MENGGATAL, PETI SURAT 16436, 88870 KOTA KINABALU, SABAH.
18	PAULDRIK BIN PAULUS	760112-12-5871	M	DUSUN	CHRISTIAN	016-8446075 016-8334307	KAMPUNG NAMBAYAN, P.O.BOX 377, 89657 TAMBUNAN, SABAH.
19	PINCE MARKUS	940404-12-6276	F	DUSUN	CHRISTIAN	014-8522469	P/S 111, KAMPUNG PUPULUTON, 89657 TAMBUNAN, SABAH.
20	RUDI BIN AMIT	921121-12-6993	M	SUNGAI	ISLAM	019-5307542	BORNEO BEACH HOUSE SDN BHD, HSE NO. 122, LORONG IKAN LAIS, JLN MAT SALLEH, TG. ARU, 88100 KOTA KINABALU, SABAH.
21	SABRINA BINTI NASIR ABDULLAH ESTROP	870427-49-5196	F	BAJAU	ISLAM	014-7262087	NO.41, LORONG 15, KG. WARISAN, 89357 INANAM, SABAH.
22	SEVERINUS SIGOH	870117-49-6089	M	DUSUN	CHRISTIAN	017-8640845	KG. TINOMPOK LIWAN, PETI SURAT 242, 89657 TAMBUNAN, SABAH.
23	SYLVER IVAN SABINUS	911230-12-5923	M	DUSUN	CHRISTIAN	014-5581610	KG. LUBONG, PETI SURAT 183, 89657 TAMBUNAN, SABAH.
24	YASMEEN BINTI YUSOF	961227-12-6138	F	KADAZAN	ISLAM	013-5463575	LOT 6, TAMAN TANAMAS PUTATAN, 88200 PENAMPANG, SABAH.

Appendix 2: Summary of the Conservation Strategies and Strategic Actions to be implemented in 2015 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 (Last 19,000 m) and Sg Kiluyu Forest Reserve (19,900 m)	96,000 + 129,335	X	X	X	X	X	X						
		2. Boundary maintenance	147,750			X	X	X	X	X					
2	Conduct Surveillance Activities	3. Ground Patrol	100,000	X	X	X	X	X	X	X	X	X	X	X	X
		4. Aerial Surveillance	40,000			X				X			X		
3	Forest Restoration	5. Maintenance of Planted Areas				X	X	X	X	X	X	X			
		6. Rehabilitation of Degraded Areas including planting roads maintenance, constructions and Yield Plots establishments by FRC.	1,191,056.00 (2 and 3 added)			X	X	X	X	X	X	X	X	X	X
4	Formulate Suitable Visitation, Flora And Fauna Collections Procedure	7. Management of climbing activities to Mt Trus Madi (Through Kaingaran, Apin-Apin and Sinua) and Flora and Fauna Collection Procedures (Committee Meeting)	5,000			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	500,000.00		X	X	X	X	X	X	X	X	X	X	X
6	Implement Relevant Social Forestry Activities	9. Field Survey at Kaimadang, Milo and Merapok and Analysis for relevant actions to Director of Forestry	To be Decided later by FEB 2015												
		10. Submission of Analysis and Implement Relevant Community Forestry As Per Directive from Director	21,500.00								X	X			

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. Formulation of Controlled Hunting Plan in Ulu Rompon and Ulu Pangas	60,000					X	X						
		12. Implementation of the Controlled Hunting Plan (CHP)	-							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	-						X						
		14. Preparation and implementation of Community Wood Lots Management Plan	Expenditure to be prepared when area approved							X	X	X	X	X	
9	Understanding Of The Target Species Through: A) Inventory Of Hornbills By 2018 B) Inventory Of Rajah Brooke And Their Host Plants By 2018	15. Field Inventory and Analysis	32,600			X			X			X			
10	Implement Relevant Conservation Awareness Programmes Including Website, certification and social Forestry Programme.	16. Maintenance of Website, Certification and social Forestry programme.	100,000.00	X	X	X	X	X	X	X	X	X	X	X	X
		17. Awareness/ Educating Public on Conservation Issues	5,000			X	X	X	X	X	X	X	X	X	X

No	Strategy	Strategic actions	Expenditure (RM)	1	2	3	4	5	6	7	8	9	10	11	12
		18. Expedition (Kiluyu and Kaingaran)	21000.00									X			
11	Scientific/ Biodiversity Study	19. Workshop/ Seminar												X	
		20. Development of Trus Madi Flora and Fauna Database		X	X	X	X	X	X	X					
12	Collaborate With Adjacent Landowners At Relevant Boundaries Of FMU10	21. Identify the Big and Individual Landowners around FMU10	-	X	X	X									
		22. Collect Relevant additional Data From Lands and Survey	-				X	X	X						
		23.Consultations with Relevant Land Owners/Workshops/ Stakeholders Meetings	20,000							X	X	X	X	X	X
A		TOTAL (RM)	2,463,241												
B		Vehicles Maintenance	471, 210												
C		GRAND TOTAL	2,934,451.00												

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 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

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

Item	Target	Indicator	Methodology	Frequency	Responsibility
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
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

Table 3: Summary of the Monitoring Activities for the Hornbills and Rajah Brooke's Birdwing Conservation Targets

Item	Target	Indicator	Methodology	Frequency	Responsibility
11	Hornbills	Population density/ Species Distributions of Hornbills	Plots and population census	After each Survey	Forestry and Sabah Parks Integrated Field Team
12	Rajah Brooke's Birdwing	Population density: Distribution and Occurrence	Inspection and observation on Fixed plots	After each Survey	Forestry Field Team