

1. INTRODUCTION

This is the Fourth Annual Work Plan ((AWP) for FMU 10. Similarly to the last three (3) AWP, it is based on the Ten (10) Year (2009 to 2018) Conservation Area Management Plan (CAMP) for FMU 10 (Tambunan). The CAMP for FMU10 was approved by the Director of Sabah Forestry Department (SFD) in January 2009.

This AWP details out the achievements in 2011 and describes the 18 strategies and their respective implementation schedules in 2012. The AWP also describes the deployment of the necessary implementers from the Sabah Forestry Department (SFD) and the other relevant Departmental partners, including the relevant fund as well as the necessary equipments. This AWP therefore acts as the guiding document for all 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 CAMP for FMU 10 in 2012.

This year also marks the initiation for Forest Certification activities in FMU10. The MPCT members will need to equip themselves with the necessary knowledge and understanding of the mechanisms of the FSC certification. Relevant documentations required under the ten (10) Principles of the Forest Stewardship Council (FSC) must be prepared without fail. A special budget will also need to be sourced and allocated, most probably from the Forest Sector Planning of Headquarters for the Pre-Assessment and Full Assessment of FMU10. The certification initiatives are envisaged to be laborious and extensive as all staff especially those in the field from both the Tambunan and Keningau Forestry Districts would need to be involved or informed.

2. FMU 10 (TAMBUNAN)

The total area covered by this FMU 10 was originally **74,736 ha**. It is part of the larger Trus Madi Forest Reserve (**TMFR**) that extended over a total area of 175,897 ha. The other part of the **TMFR**, which comes under the Ranau Forestry District, covering an area of 101,161 ha, lies within the FMU No. 5. The area is licensed to Anika Desiran Sdn Bhd under the Sustainable Forest Management Licence Agreement (SFMLA) since 1997.

The whole of the **TMFR** is located in central Sabah, between longitude 116o 34' E and 117o 01' E and latitude 5 o 27' N and 5 o 52' N. It was firstly gazetted on 1st June 1961, which covered an area of **75,692 ha**. In 1984, it was re-gazetted as a Class II (Commercial) Forest Reserve covering an area of 184,527 ha. Another gazette was done in 1992, making the whole of **TMFR** Class II into its current size of 175,897 ha.

This particular FMU 10 has been regazzetted as a Class I Forest Reserve by the Sabah State Assembly in August 2010, covering an area of **74,736 ha**. In addition, a new Forest Reserve measuring **1,065 ha**, known as **Kiluyu Forest Reserve** was constituted as a Class I Forest Reserve in a nearby area. This area has also been included as part of the FMU 10 areas. Thus, the total area for FMU 10 is now **75,801 ha**.

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, and Ranau on the north and Sook on the east. 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** which includes the Kiliyu Forest Reserve are within the Tambunan Forestry District's jurisdiction.

2.1 Management Zones

Altogether seven (7) management zones had been identified. Six (6) zones are inside the FMU10 and one (1) zone is outside the area to cater for the different usage and management prescriptions for the conservations of the eight (8) identified targets (**Table 2.1**). The Management Zones identified in FMU 10 are as follows:

Table 2.1: Management Zones in FMU 10

Zone 1:	Conservation Area covering all intact Mixed Hill Dipterocarp Forest (MHDF) and Lower Montane Forest (LMF) vegetations with an approximate area of 42,000 ha (denoted as C compartments in the map for Trus Madi FR and the whole of Kiliyu Forest Reserve)
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. (currently included in Zone 1 in Map)
Zone 3:	Forest Rehabilitation Area covering an approximate area of 22,000 ha of largely burnt and encroached areas (denoted as R compartments in the map)
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 from Tambunan (4.9 km) , Apin- Apin (4.3 km) and Sinua (11.6 km) respectively 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 has been deliberately delineated as a Forest Conservation Area to allow for the achievement of certain goals in conserving the eight (8) conservation targets (**Table 2.2**). Encroachment, commercial timber harvesting or large scale collections of any terrestrial and aquatic flora and fauna from this FMU are strictly prohibited.

Initially, due to the magnitude and the effect of the five (5) threats described in detail in the CAMP FMU 10 Vol. 1, namely, fire, encroachment, illegal poaching of flora and fauna, illegal timber extraction and littering; the achievement of abating and reducing these threats on the various conservation targets could only be met on a long term

basis, ranging from two (2) to five (5) years. A revision of the Conservations Goals will need to be done this year to assess whether the conservation goals No 1, 2, 3 and 5 has been met. This revision will help the MPCT to decide the next course of action in the overall conservation of FMU10.

In accordance to the conservation targets goals set above and the management zones prescribed for FMU 10, the following objectives are set for 2012:

- 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, gated entrances, car parks, checkpoints, resting facilities including toilets as well as reforestations' 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) Surveying of the physical demarcation of forest boundaries 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 and the management of its related allowable activities in Management Zone 4.
 - Surveying and the setting up of community woodlots area and the subsequent management of the related allowable activities in Management Zone 7.

Table 2.2: Conservation Targets and Long Term Goals

No	Conservation Targets	Conservation Goals
1	Mixed Hill Dipterocarp Forest (MHDF)	Restoration of fire degraded and encroached areas with native species To ensure zero fire, encroachments, poaching, and illegal timber extraction occurrence in the habitat by 2011
2	Lower Montane Forest (LMF)	To ensure zero encroachment and poaching occurrence in the habitat by 2011
3	Summit Scrub (SS)	Restoration of degraded camping area and to achieve zero littering by climbers by 2011
4	<i>Rafflesia keithii</i>	Total Protection of the species as well as its host plant (<i>Tetrastigma</i> spp) by 2012
5	<i>Nepenthes x trusmadiensis</i>	Total protection of the species at the summit by 2011
6	Hornbills	Determination of the group's distribution and identification of the dominant species by 2012
7	Rajah Brooke's Birdwing (<i>Troides brookiana brookiana</i> Wallace)	Total protection of the species and its host plant (<i>Aristolochia</i> spp) by 2012
8	Serawi Fish (<i>Lobocheilus bo</i>)	Total protection of the species by 2013 in the rivers and streams of FMU 10

2.3 Forest Certification

Equipping the MPCT members and other relevant Departmental partners with the relevant knowledge on forest certification is therefore required. Two (2) Officers who had vast experiences in handling similar forest certification activities in Deramakot/Tangkulap and Ulu Segama, namely Mr. Subari Suparlan and Mr Indra Purwandita H Sunjoto would be appointed as Facilitators to educate and brief the committee members on the certification agenda.

A committee comprising of the MPCT members and other relevant officers to handle this agenda will be established (**Table 2.3**). It is envisaged that smaller or breakaway Working Committees may also need to be set up in both Tambunan and Keningau Forestry Districts. The estimated cost for the Forest Certification for FMU10 at a rate of RM2/ ha is **RM 149,472**. As indicated earlier, this budget will be sourced by TP (FSP).

Table 2.3: Forest Certification Committee for FMU 10

No.	Members	Responsibility
1	Rahim Sulaiman	Chairman
2	Subari Suparlan	Facilitator
3	Indra Purwandita H. Sunjoto	Facilitator
4	Ramli Majid	Field Manager (Keningau Forestry Districts)
5	Haji Mohd Noh Jiran	Field Manager (Tambunan Forestry Districts)
6	Jafin Abu Bakar	Reforestation Activities and Documentation of related SOP and Monitoring
7	Awgku Effendy Mahmud	Community Forestry Activities/Forest Fire and Tourism (Keningau)Documentation of related SOP and Monitoring
8	Haji Afiffuddin Jadin	Community Forestry Activities/Forest Fire and Tourism (Sinua)Documentation of related SOP and Monitoring
9	Julius P Indu	Biodiversity management (HCVF)/Tourism and documentation of related SOP and Monitoring
10	Bonaventure Yampai	Biodiversity management (HCVF) / Tourism and related SOP and Monitoring
11	Anuar Mohd	Reforestation Activities/ Biodiversity management (HCVF) and documentations of related SOP and Monitoring
12	Amelia Bosi	FSC Manual and other related Documents and Monitoring
13	Roslan Lalete	Occupational Safety and Health Act (OSHA) and Documentation of related SOP and Monitoring
14	Roslan Mohd Junaidi	Mapping and Documentation of related SOP and Monitoring
15	Suib Basri	Mapping and Documentation of related SOP and Monitoring
16	Ricky Alisky Martin	Community Forestry Expert/Lead and Documentations of related SOP and Monitoring
17	Pilis Malim	EIA and Forest Fire Expert/Lead and Documentations of related SOP and Monitoring
18	Haji Abdul Rahman Tuah	Conservation Awareness and Documentations of related SOP and Monitoring
19	Sumbin Gadas	Controlled Hunting /CITES and Documentations of Related SOP and Monitoring
20	Benedict Jani	Controlled Hunting /CITES and Documentations of Related SOP and Monitoring
21	Alim Biun	Biodiversity management (HCVF) and documentation of related SOP and Monitoring
22	Dr. Chey Vun Khen	Biodiversity management (HCVF) and documentation of related SOP and Monitoring

NOTE: SOP means Standard Operating Procedures

3. OPERATIONAL STRUCTURE AND BUDGET

3.1 Operational Responsibilities

The main field implementers of the CAMP in 2012 are the District Forestry Officers (DFO) of Tambunan and Keningau. In addition to their current assigned staff, they are assisted by other departmental implementers, namely, the Sabah Wildlife Department (SWD) Keningau office, the Sabah Parks (SP), the Public Works Department (PWD) Keningau and Tambunan District Office and the relevant research officers from FRC and professional foresters from the Sandakan forestry headquarters. Deputy Director (Management) Rahim Sulaiman is the Chief Implementing Officer.

As in the past three (3) years, due to current workloads, the Tambunan Fisheries District Office unfortunately would not be able to implement the Serawi conservation target strategy in 2012 as well. In addition, both the *Nepenthes* and the *Rafflesia* conservation target strategies again would not be implemented in 2012 due to unavailability of the relevant researcher, since 2011.

3.1.1 Existing Manpower under SFD

The total available manpower under SFD is 36 personals. However, only 19 personnel are considered working fulltime in implementing the CAMP. The other 21 personnel are part time implementers of the CAMP. **Table 3.1** describes the personnel involved in implementing the CAMP under SFD.

Table 3.1: Summary of Current Manpower for CAMP Operation provided by SFD

Item	Designation	Personnel	Grade	Status	Total
1	Deputy Director (Management) (DD)	Rahim Sulaiman	G54	A	1
2	Senior Research Officer (SRO)	Dr. Chey Vun Khen Anuar Mohd	Q54 Q52	P p	2
3	Conservator of Forests (CF)	Roslan Junaidi Pilis Malim	G54 G54	A P	2
4	Conservator of Forests (CF)	(DFO Tambunan) Hj Mohd Nooh Mohd Jiran (DFO Keningau) Ramli Majid (Sustainable Forest Management Officer (SFMO, Keningau) Jafin A Bakar) * Planning Officer FMU10 (POFMU10) AgKu Affendi Pg Mahmud*	G41	P A P p	4
5	Assistant Conservator of Forests	(FRM Officer) Suib Basri (Sinua Coordinator FMU10) Haji Afifuddin Jadin*	G27	P	2
6	Assistant DFO Tambunan (ADFO I)	Julius P Indu	G32	P	1
7	Assistant DFO Tambunan (ADFO II)	Bonaventure Yampai *	G27	P	1
8	Assistant DFO Tambunan (ADFO III)	Haji Abdul Rahman Tuah*	G27	P	1
9	Forest Ranger (FR)	Moses Stephen James Gasidah	G17	P	2

10	Senior Forest Guard (SFG)	<i>Nainty Sahak*</i>	G 14	P	1
11	Forest Guard (FG)	<i>Daud Kardi*</i> <i>Edmund Attiu*</i>	G 11	P	2
12	Senior Research Assistant (SRA)	Momin Binti Nasrah Yusof	Q22	P	2
13	Pembantu Tadbir	Anne Louisa David (K (KEW) Kngu) Jaliha Mohd (Admin: FMU10 Office)*	N22	P	2
14	Pembantu Tadbir Kewangan	Mohd Shahril Surim*	W17	P	1
15	Driver	Nicolas Botulik* Heldy Sungot* Hollay Katong* Marinus Kimpulan	R3	P	4
16	PRA	Faizul Dinin* Julaili Mulkiaman Mohd Ardy Sukidang* Richard James Solisip* Maximus Lazarus* Dius Basil* Hyally Yahya* Sarina Omar (Account)	R1	T	8
17	PRA from FRC	Willibrord Jimin	R1	T	1
Note: A – Acting; P – Permanent;		T-Temporary * - Working Full time on CAMP FMU 10 (19 personnel only)	Total		36

3.1.2 Manpower outside SFD

A total of 11 personnel are available from the various government agencies (**Table 3.2**). 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 staff however is not working fulltime in implementing the CAMP. Their involvements are only in the relevant strategies which require their respective expertises or attending the monthly MPCT (Management Planning Core Team) meeting only.

Table 3.2: Summary of Manpower for CAMP Operation provided by other MPCT Partners

Agency	No of Personal	Total
Sabah Wildlife Department (SWD)	3	3
Sabah Parks (SP)	4	4
Public Works Department Keningau (PWD)	1	1
Public Works Department Sook (PWD)	1	1
District Office (DO)		
• Tambunan	1	1
• Keningau	1	1
TOTAL		11

3.1.3 Existing vehicles under SFD

Table 3.3 describes the existing vehicles available for the CAMP implementation. **SAA2008R** (Toyota Fortuner) is utilised by DD Rahim Sulaiman. The vehicle is also utilised to visit the Community Forestry Project in Klias Forest Reserve involving the nearby kampung Suasa and Nabahan implemented by the Beaufort Forestry District. The Keningau Forestry office is assigned with three (3) Vehicles and two (2) motorcycles. The Toyota Fortuner **SAA5139N** is utilised by the DFO Keningau. Two (2) Toyota Hilux, **SAB3927A** and **SAB3930A** are utilised by the Keningau staff as well as the two new (2) motorcycles, **SAB8861G** and **SAB 8659G**. The Tambunan Forestry Office is assigned four (4) vehicles. The Toyota Fortuner **SAA5140N** is used by the DFO Tambunan, and the three (3) Toyota Hilux, **SAB3924A**, **SAB3934A**, and **SAB3937A** are used by Tambunan staff. An additional two vehicles, Toyota Hilux, **SB3965B** and **SB3974B** are assigned for usage by the FMU 10 Operational Office staff and the SFM Officer Keningau.

Table 3.3: Vehicles Available for use for CAMP FMU 10 in 2012

Item	Vehicles	Unit	Registration Number	Utilisation Age (yr)
1	Toyota Fortuner	3	<ul style="list-style-type: none"> • SAA 2008R • SAA5139N* • SAA5140N* 	4 5 5
2	Toyota Hilux	5	<ul style="list-style-type: none"> • SAB3927A* • SAB3930A* • SAB3924A* • SAB3937A • SAB3934A 	3 3 3 3 3
3	Toyota Hilux	2	<ul style="list-style-type: none"> • SB3965B • SB3974B 	1 1
4	Motor Cycles (125cc)	2	<ul style="list-style-type: none"> • SAB8661G • SAB8659G 	1 1
	Total	12		

Note: * Not utilised full time for CAMP FMU10

3.2 Development Budgets for 2012

Under RMK 10, four (4) new budgets were approved by both the State and Federal governments. The new format of budgeting is based on a two year accounting period, called the rolling plan. **Table 3.4** describes the overall budget available in 2012 amounting to RM **9,435,120.59**, of which **RM1,025,135.24** is contributed from the Forestry Funds and the balance of **RM8,409,985.35** are from the RMK10 RP2 budgets.

The two (2) forestry budgets, namely, Pelaksanaan Pelan Konservasi Biayaan Projek Perhutanan Masyarakat (**PPKPPM**) and Reforestasi Biayaan Tabung Pemulihan Hutan (**RFTPH**), sourced from the Forestry Trust Funds are continuous budget and could be brought forward in the following year.

The four (4) RMK10 RP2 budgets, namely, Peningkatan Kemudahan Pelancongan biayaan Kementerian Pelancongan ((**PKPMOTOUR**), Peningkatan Kemudahan Pelancongan Biayaan Negeri (**PKPSTATE**), Reforestasi Biayaan Negeri: Program Pemulihan Hutan di FMU10 (**RFSTATE**) and Pelaksanaan Pelan Konservasi biayaan Persekutuan (**PPKNRE**), however need to be spent within 2012 or 2013 as stipulated in the Rolling Plan expenditure mechanism. Under such flexibility and restriction in the spending of these six (6) budgets, it is decided that all three (3) budgets, namely, **PKPMOTOUR**, **RFSTATE** and **PPKNRE** will be utilised fully in 2012 or 2013. The **PPKPPM** budget would again only be partially used in 2012. The **RFTPH** budget would utilised fully in 2012.

A total of **RM 2,594,505.35** would be requested to be parked under the Heart of Borneo (HoB) programme under TP (FSP). **Table 3.5a, 3.5b and 3.5c** each describes the expenditure components for the various RMK10 budgets.

Table 3.4: Various Budgets Available for CAMP FMU 10 under RP 2 (2012 – 2013)

Item	Name of Budget and Code	Balance Amount in 2011 (RM)	Budget Approved In RMK10 (RM)	Budget Expenditure In 2011 (RM)	Budget Approved In 2012 (RM)	Source of Fund
1	Pelaksanaan Pelan Konservasi Biayaan Projek Perhutanan Masyarakat (PPKPPM) (K75 120 150801 757000 00000000 000000)	1,426,609	-	491,529.76	935,079.24	Community Forestry Fund
2	Reforestasi biayaan Tabung Pemulihan Hutan (RFTPH) (K75 120 150801 757001 00000000 000000)	346,020	-	255,964	90,056	Forest Rehabilitation Fund
			SUB-TOTAL	747,493.76	1,025,135.24	
3	Peningkatan Kemudahan Pelancongan Di Hutan Simpan Trus Madi (MOTOUR) (PKPMOTUOR)(P31374010100190 000) {Project awarded a Contract sum of RM3, 542,955 to Usaha Hakikat Sdn Bhd to construct 3 Km Boardwalk and 20 Pax RestHouse and water supply.}	-	4,000,000 (Balance: RM457,005 to be utilised)	373,875*	2,700,000	Ministry of Tourism Malaysia (MOTOUR)
4	Peningkatan Kemudahan Pelancongan Di Hutan Simpan Trus Madi (Negeri) (PKPSTATE) D11	-	1,000,000	-	1,000,000	Sabah State Government
5	Program Pemulihan Hutan di Hutan Simpan Trus Madi (FMU 10)(Negeri) (RFSTATE) D11 111150801002000000280000	-	3,340,000	1,670,000	1,670,000 + 2,339,987 (parked under HoB) (4,009,937)	Sabah State Government
6	Pelaksanaan Pelan Konservasi Hutan Simpan Trus Madi (FMU-10) (NRE) (PPKNRE) (P23 108030100001)	-	1,000,000	554,520	445,480 + 254,518.35 (parked under HoB) (699,998.35)	Ministry of Natural Resource (NRE)
			SUB-TOTAL	2,598,395	8,409,935.35	
			TOTAL	3,345,888.76	9,435,120.59	
7	GRAND TOTAL	1,772,629	9,340,000	3,345,888.76	9,435,120.59	

Table 3.5 a: Components for Pelaksanaan Pelan Konservasi FMU10 (PPKNRE) in 2012

Item	Components	2012 Cost (RM)
1	Boundary Maintenance and Survey	254,518.35
2	Vehicles	-
3	IT and ICT related Equipment(Including Maps/Remote sensing Imagery)	30,000
4	Procurement of Fire fighting Tools	4,000
5	Procurement of Awareness Program Equipments	1,481.65
6	Vehicle Maintenance	-
7	Allowances for Staff	200,000
8	Biodiversity Expedition Cost	110,000
9	Workshop/training/Exhibition (Awareness Program)	100,000
	TOTAL	445,481.65
	<i>To be procured under HoB</i>	254,518.35
10	GRAND TOTAL	700,000

Table 3.5 b: Components of Penyediaan Kemudahan Pelancongan Budget under MOTOUR in 2012 (PKPMOTOUR)

Item	Components	2012 Cost (RM)
1	Construction of 4.9 km Boardwalk along Trus Madi Trail AND Construction of Rest House AND Gravity Water Piping (Awarded to Usaha Hakikat Sdn Bhd)	2,700,000
*2	Open hall (32 ' x 60') with two (2) stores	100,000
*3	Toilets (4) at Kitingan Point (14'x24')	100,000
*4	Toilets (2) 10'x 12' and Kitchen (10'x16') at Jaafar Nyiro's Cabin	100,000
*5	A 36 Meter Suspension bridge across Ulu Monsok River (For Tourists to hike Landak Trail to see Rafflesia flowers blooming)	100,000
	SUB-TOTAL	400,000
	TOTAL	3,100,000

*Subject to approval from MOTOUR through KPKAS)

Table 3.5c: Components for Reforestation Activities in FMU10 (**RFSTATE**) in 2012 and 2013

Item	Components	2012 Cost (RM)	2013 Cost (RM)
1	Construction of Jalan Tanaman at R16 and R19 and Jalan R25 (38 km)	159,000	-
2	Maintenance of Jalan Tanaman 27.3 km	82,000	-
3	Vehicles 2 Units HiLux (2,500 cc)	180,000	-
4	Scrambler Motorbike: 2 units	13,000	-
5	IT and ICT Equipments	50,000	50,000
6	Field survey/ Research Equipments	50,000	50,000
	Sub -Total	534,000 (HoB)	100,000
7	Vehicle Maintenance	80,000	80,000(deficit)*
8	Motorbike Maintenance	20,000	20,000 (deficit)*
9	POL	150,000	150,000
	Sub total	250,000(HoB)	250,000
10	Constructions of Checking Station at Gate Rompon, Jalan Pangas – Rompon	250,000 (HoB)	-
11	New Plantings 200 ha (Rate:RM1,400hax 200 ha)	280,000	-
12	Boundary Marking 200 ha (Rate: RM115/ha)	23,000	-
13	Seedlings (300 x 200 ha x RM5/seedling)	300,000	-
	Sub Total	852,500	-
14	Maintenance of old Plantings (2009 and 2010) 700 ha (Rate:RM180 x2 times) (2013: 700 ha (Rate: RM 180x4 Times)	252,000	504,000
15	Maintenance and other works for Old Plantings (2011) 300 ha (2013: 300 ha (Rate RM180 x 4 times)	650,000	216,000
16	Maintenance of new Plantings 200 ha (Rate:RM180x 4 Times)	144,000	(144,000)* Deficit
17	Fertilising of New Plantings (RM 120 x 4 timesx200 ha)	96,000	-
18	Aerial Surveillance	70,000 (HoB)	70,000
19	Allowances for Outside SFD Staff	55,000 (HoB)	55,000
	Sub-total	1,267,000	989,000
20	GRAND TOTAL	2,903,500 (1,233,500) HoB	1,339,000 (HoB)

*This amount shows a deficit as an extra Budget of RM232, 563 are envisaged to be spent over an overall RP2 Budget of RM 4,009,937. Hopefully addition amount would be given under this Budget for 2013.

Table 3.5 D: Utilisation of PPM/Reforestations Budgets in 2012

Item	Budget	Balance (RM) 2012	Commitments (RM) 2012
1	Pelaksanaan Pelan Konservasi Biayaan Projek Perhutanan Masyarakat (PPKPPM) (K75 120 150801 757000 00000000 00000)	935,079.24	Payment for MOTOUR's Project Consultant is estimated at RM 124,799.96*
2	Reforestasi biayaan Tabung Pemulihan Hutan (RFTPH) (K75 120 150801 757001 00000000 00000)	90,056 + 380,000**	This amount will be used for maintenance of the 160 ha plantings and to be done through Quotation

* Subject to changes depending on the percentage allowable as advised by K (PPA)

** This amount has only been approved under the Community Forestry Community during the final write up of this AWP.

4. STRATEGIES TO BE IMPLEMENTED IN 2012

All 18 strategies will be implemented for 2012 under this AWP. A total of 30 strategic actions or activities were supposed to be implemented, however due to work commitments apart from lack of manpower and funding usage constraints, it is envisaged that only 20 strategic actions could be implemented in 2012.

4.1 Boundary Demarcation

This strategy is implemented by the FRM Division under **SACF Roslan Mohd Junaidi** and assisted by **ACF Suib Basri**.

Initial assessment by the Forest Resource Management (FRM) Division concluded for a total length of **136,400 meters (m)** of outer boundary of FMU 10 need to be surveyed and demarcated. Since Kiluyu Forest Reserve is also included therefore, additional demarcation needs to be done as well. The boundary of FMU 10 has been divided into 4 parts as follows:

- Part A: Measuring a length of 54,800 m (Boundary under Tambunan Forestry District beginning from Kg. Tiwag to end at Kg. Ulu Monsok)
- Part B: Measuring a length of 51,550 m (Boundary under Keningau and Sook Forestry Districts starting from Kg. Ulu Monsok to Kg. Batu Lungayon)
- Part C: Measuring a length of 35,500 m (Boundary under Sook Forestry District from Kg. Batu Lungayon to Kg. Sinsuron)
- Part D: Boundary of Kiluyu Forest Reserve

4.1.1 Progress in 2011

In an exercise which began in 2007, a total of 106,350 m (106.35 km) or 75% of the boundary of FMU 10 was surveyed covering Part A and Part B. The survey plans have been sent to Juruukur Daerah Keningau for further checking and subsequently followed by endorsement of approval.

On the other hand, due to budget constraint in 2010 that continued until 2011, survey of the balance covering Part C of FMU 10 was not done. Based on the instruction through a letter reference JPHTN/ (KGU) (FMU10)800-1/3/1/KLT.1/3 dated 9th November 2011, the FRM Division will submit the map of Part C to PPA Division for tender process. The total cost is estimated to be RM185, 000 which is funded under the RMK10 under the supervision of the Chairman of Camp Trus Madi FMU 10 Project.

As for the boundary maintenance which is supposed to be carried out at the beginning of 2011 was also delayed due to the manpower shortage faced by the FRM's division. However decision has been made that boundary maintenance of FMU 10 will be implemented on the ground through the appointment of contractor in the year 2012. Progress report will be submitted to the Chairman of CAMP TRUS MADI FMU 10 for record purposes.

4.1.2 Activities in 2012

Activities to be implemented are as follows:

- To carry out regular boundary maintenance and to Install FD Sign Boards at 50m - 100m intervals along the demarcated boundary by appointed contractor;
- Survey and demarcation of TMFR boundary – (Part C – 35,500m of FMU 10) by appointed private surveyor;
- Survey and demarcation of the whole length of Hutan Simpan Kiluyu by appointed surveyor

All works will be done through Quotation to be handled by FRM office at the headquarter

Table 4.1.1: Survey and Maintenance of TMFR/Kiluyu Boundary in 2012

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Survey of Trus Madi FR - FMU10 - Part C (35,500m)			X	X	X	X	X	X	X	X	X	X
2	Survey of H S Kiluyu (length yet to be ascertain by FRM)				X	X	X	X	X	X	X	X	X
3	Boundary maintenance/ Installation of FD signboards			X			X			X			X

4.1.3 Estimated Expenditure

The total expenditure for implementing this strategy in 2011 is estimated at **RM274,518.35**. **Table 4.1.3** describes the breakdown of the expenditure involved.

Table 4.1.3: Boundary Demarcation Expenditure in 2011

Item	Activities	Budgets (RM)		
		PKPNRE	PKPNRE (Allowance)	TOTAL
1	Survey of Part c FMU 10 Outer Boundary	185,000	-	185,000
2	Survey of the whole of Kiluyu Boundary	69,518.35	-	69,518.35
3	Maintenance of Part A & B Allowances: (RM 60/Day x 8 x days)	-	20,000	20,000
Total		254,518.35	20,000	274,518.35

4.2 Upgrading of check point facilities and erection relevant strategic signage

The objectives of this strategy are:

- To ensure check points are adequately equipped
- To ensure adequate field markers, reference point, reminders and warning signs to the public are provided.

4.2.1 Activities done in 2011

Only one (1) activity, erecting signage for controlled hunting was done in 2011 due to the constraints of usage of funding. This activity will be done by **SFMO Jafin Abu Bakar**, assisted by the Keningau SWD. A total amount of RM20, 000 was used from **PPKPPM** budget to contract out the activity.

4.2.2 Activities in 2012

A checkpoint facilities and gated entrance will be constructed at the Rompon, Pangas area bordering the Sabindo OP area. It is estimated to cost RM 250,000.

4.3 Upgrading of climbing trails (4.9 km) and construction of basic facilities at various rest areas and overnight camping area

The objective of this strategy is to improve the condition and facilities, overnight camping facilities to climbers along the Trus Madi climbing trail and the Sinua Trail. The implementation is entrusted to **ADFO Bonaventure Yampai** and **SFMO Jafin Bakar** and **Awangku Effendy Pg. Mahmud**.

4.3.1 Activities done in 2011

The activities implemented in 2011 under this strategy focussed on providing better facilities for climbers along the Trus Madi trail through the Kaingaran Trail. A total budget of RM 3.5 million was approved by the Ministry of Tourism Malaysia (MOTOUR) to construct the following facilities in 2011:

- i) Construction of wooden structures and boardwalks (3KM) along the 4.9 km trail to the summit.
- ii) Construction of a wooden rest house that could accommodate 20 climbers, nearby Gibon cabins.
- iii) Construction of gravity water piping system at the Mirad Irad base camp and Taman Kitingan

The Contract was awarded to Syarikat Usaha Hakikat Sdn Bhd in 9th. September 2011 for a total sum of RM3, 542,995. The contract period was for 17 months. The completion date for the contract is 8th February 2013. A Monthly site meeting chaired by DD (MGT) involving relevant stakeholders departments such MOTOUR (Sabah), KPKAS, and the Tambunan District Council will be held to monitor the progress of work.

4.3.2 Activities in 2012

Table 4.3.1. describes the activities for 2012 in Tambunan and Keningau. Under the state budget, Ali Hasan road maintenance and construction of gated entrance at Apin-Apin will be Tendered in March 2012. Upon the award of the Tender, a monthly site meeting chaired by DD (MGT) will be held to monitor the progress of work. Under the MOTOUR budget, the Construction work at Kaingaran trail will be continued by Usaha Hakikat Sdn Bhd, to be monitored under the Monthly site meeting chaired by DD (MGT).

Table 4.3.1: Implementation Schedule for Strategy 3 in 2011

Item	Activities	Location	Month											
			1	2	3	4	5	6	7	8	9	10	11	12
1	Construction of 3 km Board walk and 20 Pax rest house by Usaha Hakikat	Tambunan		X	X	X	X	X	X	x	X	X	X	X
2	Tendering of Peningkatan Kemudahan Pelancongan di HS Trus Madi (State Budget)	Keningau			X	X								
3	Award of (2) and Construction	Keningau					X	X	X	X	X	X	X	X
4	Monthly Site Meeting (MOTOUR)	Tambunan/Keninagu	X	X	X	X	X	X	X	X	X	X	X	X

4.4 Development and Implementation of good visitation Protocol/Guidelines

The objective of this strategy is to ensure orderly visitation and to ascertain good climbing conduct of visitors to Trus Madi. The implementation of this strategy is entrusted to a management committee headed by **DD Rahim Sulaiman**.

4.4.1 Activities done in 2011

The Visitation Committee for Mount Trus Madi to develop good visitation guidelines established in January 2009 was maintained. Members of the committee are as listed in **Table 4.4.1**. The current guidelines of maintaining a restricted number of visitors of 14 people per climb and baggage check were upheld by the committee for 2011.

Table 4.4.1: Members of FMU 10 Visitation Committee

Responsibility	Personal
Chairman	DD Rahim Sulaiman
Secretary	Awangku Effendy Pg. Mahmud
Members	DFO Haji Mohd Nooh Mohd Jiran
	DFO Ramli Majid
	ADFO Bonaventure Yampai
	ADDO Mohd Guntur Arif
	ADO Tambunan
	SFMO Jafin A. Bakar
	Other relevant stakeholders

The Terms of Reference of the Committee for 2012 are as follows:

- Revise Climbing Permits Issuance including development of guidelines for visitors and make recommendation for amendments to the Director of Forestry for approval.
- Explore the possibility of providing Insurance coverage to climbers and make recommendation for implementation to the Director of Forestry for approval.
- 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.
- Review of registration procedure at check point and implement the appropriate changes.
- To hold quarterly meeting of the committee.
- 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 amendments. This consultation may be held together with that of the Ecotourism Committee under strategy 11.

4.4.2 Activities in 2012

Table 4.4.1 describes the schedule of work in 2012 and the estimated expenditure.

Table 4.4.1: Implementation Schedule for Strategy 4 in 2012

Item	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Committee Meeting/Stakeholders Dialogue (parallel with Strategy 11)			X			X			X			X
2	Implementing recommended/appropriate changes				X	X	X	X	X	X	X	X	X
3	Meeting Expenses with stakeholders	RM 1,000											

4.5 Development and implementation of good flora and fauna collection Protocol/Guidelines

The objective of this strategy is to develop systematic and orderly collections procedures for fauna and flora in FMU 10. Implementing the strategy is entrusted to a management committee headed by **DD Rahim Sulaiman**.

4.5.1 Activities done in 2011

A revision of the Committee membership was done in 2011 as listed in **Table 4.5.1**.

The Terms of Reference (TOR) of the committee for 2012 are as follows:

- To review existing procedures and conditions of flora and fauna collection in FMU 10 and recommend appropriate amendments 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 amendments to the relevant authority in Kota Kinabalu through the Director of Forestry.
- To receive and appraise any proposal including research proposals 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.
- To hold committee meeting on a need basis or quarterly.

Table 4.5.1: Members of Flora/Fauna Collection Committee

Responsibility	Personal
Chairman	DD Rahim Sulaiman
Secretary	SRO Dr. Chey Vun Khen
	ACF Awangku Effendi Pg Mahmud
Members	DFO Hj. Mohd Nooh Jiran
	DFO Ramli Majid
	SRO Anuar Mohd
	Wildlife Officer Sumbin Gadas
	Parks Officer Alim Biun

4.5.2 Activities in 2012

Committee meeting will be done on a quarterly basis to discuss any possible amendments. **Table 4.5.1** and **Table 4.5.2** describe the activities and budgetary requirement for 2010.

Table 4.5.1: Implementation Schedule for Strategy 5 in 2010

Item	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Committee Meeting			X			X			X			X
2	Implementing recommended actions on flora/fauna collection			X	X	X	X	X	X	X	X	X	X

Table 4.5.2: Expenditure for strategy 5 in 2010

Item	Activities	PPKPPM (RM)
1	Meeting Expenses	1,000
	TOTAL	1,000

4.6 Social Baseline Survey (SBS)

Encroachment is one of the major threats in the conservation efforts in FMU 10 especially in the Keningau forestry district. Appropriate data on these encroachers need to be collected to devise an appropriate approach to abate and reduce this problem. The objective of this strategy is to obtain baseline information on encroachers and their activities in FMU 10. **POFMU10 Awangku Effendi Pg Mahmud** is the implementer of this strategy. Personnel from SFM Division would also be engaged to help out in this activity.

4.6.1 Activities done in 2011

Due to the heavy workload in implementing the reforestation works as well as the relevant officers in SFM Division, unfortunately no activity was done in 2011.

4.6.2 Activities in 2012

In view of the impending Timber certification, this work will be accorded a priority in 2012. **Table 4.6.1** describes the main activities.

4.6.2.1 Data analysis and Reporting

SPSS program (Statistical Package for the Social Science) will be used for entering and analysing the data. Report will be prepared and submitted upon the completion of all analysis.

4.6.3 Estimated Expenditure

The budget expenditure for 2012 is as tabulated in **Table 4.6.2**. A total sum of **RM 30,000** will be required to implement this strategy in 2012.

Table 4.6.1: Implementation Schedule for Strategy 6 in 2012

Item	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Continuation of SBS at the boundary of TMFR at Sook		X	X	X								
2	Data screening and entry		X	X	X	X							
3	Analyzing collected data			X	X								
4	Report Writing				X	X							
5	Stakeholder Discussion with Apin - Apin/Sinua/Tambunan communities (<i>for Certification</i>)							X					

Table 4.6.2: The Estimated expenditure for SBS in 2012

Item	Activity	PKPNRE (RM)
1	Allowances	- 30,000
	TOTAL	30,000

4.7 Development of Controlled Hunting Area

The objective of this strategy is to achieve sustainable wildlife management through controlled hunting activities in FMU 10. Controlled hunting is expected to be enforced this year. This strategy will focus on the management Zone 4 in Ulu Monsok and Ulu Rompon. The total area involved is estimated to be 6,000 ha. The objective of this strategy is to ensure an orderly and better management of hunting activities in FMU 10 of wildlife that are not prohibited to be hunted under the Wildlife Conservation Enactment 1997.

This strategy is implemented by the **Sabah Wildlife Department (SWD)** headed by **Wildlife Officer Sumbin Gadas** and assisted by **Wildlife Officer Benedict Jani**. A total of five (5) staff has been assigned by the Keningau office for this work. Transportation will be provided by SWD. However other necessary equipments and

construction of facilities in implementing this strategy as well as payment of allowances will be provided by SFD through various sources of funds available for FMU 10.

4.7.1 Activities done in 2011

SWD made two (2) wildlife surveys at the proposed area to determine the viability of the fauna population in the area along the old two (2) and newly constructed three (3) wildlife hunting trails. Discussions were also held to determine the mechanism and charging rates for the proposed hunting activity.

4.7.2 Activities in 2012

The controlled hunting activities to be implemented by the SWD and SFD are:

- Hunting Course
- Issuance of permit to enter hunting area by SFD
- Issuance of hunting permit by SWD
- Registration at the Wildlife guard post and inspection of hunting equipments and tools by SWD
- Assignment of hunting block and hunting guide by SWD
- Declaration of animals' carcasses to the Wildlife officer ranger on duty in the controlled hunting area

The other activities for 2012 are as described in **Table 4.7.1.**

Table 4.7.1: Implementation Schedule for Strategy 7 in 2012

Item	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Boundary demarcation and sub division			X	X	X	X	X	X				
2	Determination of Hunting Blocks and Development of hunting trails system			X	X	X	X	X	X				
3	Conducting wildlife census			X			X				X		
4	Installation of signboards			X	X	X	X	X					
5	To determine and Gazette hunting seasons										X	X	
6	Final Formulation of hunting procedures			X	X	X	X						
7	Surveillance of area	X	X	X	X	X	X	X	X	X	X	X	X
8	Preparation of Controlled Hunting Plan								X	X	X	X	X

4.7.2 Estimated Expenditure

The total expenditure to implement this strategy is **RM 47,000**. The breakdown of the costs is described in **Table 4.7.2**. The wildlife census and training will be conducted by SWD. The hunting trails establishment and sign board installation will be contracted out. The specifications for the contract works will be provided by SWD.

Table 4.7.2: Estimated costs for Implementing Controlled Hunting Strategy in 2012

No	Item	PPKNRE (RM)
1	Hunting Course	2,000
2	Allowances (SWD Staff)	45,000
	TOTAL	47,000

4.8 Development of Forest Fire Management Plan

Fire is the most destructive threat in conserving the flora and fauna in FMU 10. This threat has burned down some 22,000 ha of Mixed Hill Dipterocarp forest in FMU 10. Addressing this major threat therefore is vital to prevent further forest destruction. The objective of this strategy is to achieve zero fire incidences in FMU 10. It will be headed by **SACF Pilis Malim**.

4.8.1 Activities done in 2011

Due to work commitment of the recommended Fire Consultant as well as SACF Pilis Malim, the planned activities of assembling a fire planning team and development of a fire management plan for FMU 10 was shelved in 2011.

4.8.2 Activities in 2012

Table 4.8.1 describes the related activities planned for 2012. The total amount estimated is **RM 10,000** mainly for maps/imagery and fire fighting tools procurement.

Table 4.8.1: Implementation Schedule for Fire Management strategy in 2012

Item	Activities	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Assignment of Fire Planner			X	X	X							
2	Developing Fire Management Plan			X	X	X	X	X					
3	Implementation of Fire Management Plan								X	X	X	X	X

4.9 Establishment of Community Woodlots in Tambunan

The objective of this strategy is to provide necessary wood resources for the Tambunan local communities in a stateland area outside FMU 10 near Kampung Kaingaran. This objective is expected to abate or reduce the threats of communities engaging in illegal timber extraction in FMU 10, by providing alternative timber resources for their usage to be managed sustainably by the communities themselves. This strategy is implemented by **DFO Hj. Mohd Nooh Mohd Jiran**.

4.9.1 Activity done in 2011

The Tambunan Land utilisation Committee (LUC) has not been able to accommodate to the request from SFD to initiate a discussion on the area applied in 2009 for the establishment of the community woodlots despite several reminders in 2011. No expenditure was spent under this strategy, since all the tasks are merely sending out reminders through official letters only.

4.9.2 Activities in 2012

In the latest LUC meeting near the end of last year, SFD was informed that this application would be tabled in the next meeting to be held tentatively on March 2012. DFO Hj Mohd Nooh Jiran is required to do follow up action on this and to provide and updated report on the progress in the quarterly MPCT's meeting.

4.10 Implementation of surveillance system

The objectives of this strategy are:

- To ensure that FMU 10 is free from threats such as fire, illegal timber extraction, poaching of flora and fauna and encroachments that jeopardise the conservation efforts
- To establish a surveillance schedule for FMU 10

There are five (5) threats that need to be managed as highlighted in the approved CAMP FMU10. These threats are fire, illegal timber extraction, encroachments, illegal hunting/ collections of flora and fauna including fishing, and littering along the Trus Madi trail.

The strategy enforced currently is as follows:

- Field personals manning check points will continue to perform daily surveillance around the check points. To increase mobility as well as surveillance range, both the Tambunan and Keningau (Apin-Apin) entry points have been equipped with motorcycles purchased in 2011.
- Task Force Unit from both districts will carry weekends and public holidays surveillance

4.10.1 Activities done in 2011

In 2011, surveillance activities were as follows:

- Task Force patrolling was done in accordance to the relevant Director's Circular.
- Three (3) aerial surveillance exercises were done.

These activities managed to detect one (1) case Nadangan encroached by unknown people and staff kongsi was demolished. No occurrence of fire was detected. Overall it could be inferred that only one (1) case of encroachment occurred in FMU 10 for the year 2011.

4.10.2 Activities in 2011

In 2012, the same rigorous surveillance schedule as in 2011 is maintained in view of its effectiveness in curbing unlawful acts in the forest areas. The scheduled activities are as follows:

- The FMU-10 ground surveillance teams comprising of FPCT members will continue carry out weekends and public holiday surveillance round. On a more than one day public holiday, the team will be required to camp out in the field at night.

- While on duty, the staff should lookout for encroachers, illegal poaching of flora and fauna and fire outbreaks. The FD's continuous presence has been effective to deter potential illegal poachers and timber thieves from entering FMU 10 area.
- Aerial surveillance will be carried out once a month to monitor remote and inaccessible areas, Aerial surveillance will be jointly undertaken by:
 - SFMO Jafin Keningau
 - Moses Stephen
 - Daud Kardi
 - Edmund Attiu
 - Nuin Entang
 - James Gasida
 - ADFO Tambunan Bonaventure Yampai
 - ADFO Tambunan Hj Abdul Rahman Tuah

The surveillance schedule for 2012 is highlighted in **Table 4.10.1**.

Table 4.10.1: Surveillance Schedule for FMU 10 in 2012

Item	Location	Mode	2011											
			1	2	3	4	5	6	7	8	9	10	11	12
			Frequency per month											
1	Sinungkalangon, Namadan, Nandal/Kaingaran (by FPCT, Tambunan)	Ground inspection	Round trip to the area every weekends, public holidays. And once a month during normal working days											
2	Ulu Monsok, Ulu Rompon (by FPCT, Tambunan)	Ground inspection	Round trip to the area every weekends, public holidays. And once a month during normal working days											
3	Rompon, Apin-Apin, controlled hunting and rehabilitation areas (by FPCT, Keningau and Tambunan)	Ground Inspection	To make round trip to Rompon and controlled hunting rehabilitation areas area every fortnight.											
4	Sook, Sinua (by FPCT, Keningau)	Ground Inspection	Round trip once a month during normal working days											
5	Aerial Surveillance	Helicopter	To make round trip at least once a month <ul style="list-style-type: none"> • along the FMU-10 forest boundary • Sinungkalanagan, Namadan • Nandal/Kaingaran • Ulu Monsok, Ulu Rompon • Along Pangas, Apin-Apin • hunting area, rehabilitation areas • Sook, Sinua 											

4.10.3 Estimated Expenditure

A total expenditure of **RM 282,000** is required for the surveillance activities. The details are as tabulated in **Table 4.10.2**.

Table 4.10.2: Estimated Expenditure for Surveillance Strategy in 2012

No	Item	PPKNRE	RFSTATE (RM)	TOTAL
1	Aerial Surveillance	-	70,000	70,000
2	Allowances	172,000		172,000
3	Field Survey Equipments	40,000		40,000
	TOTAL	212,000	70,000	282,000

4.11 Managing Ecotourism Development

CAMP FMU 10 Volume 4 describes the Malaysian Ecotourism Development Guidelines. These guidelines will form the basis of approving any potential ecotourism development proposal in FMU 10. Sustainable development goal will be made the paramount requirement in any tourism development in FMU 10. The objective of this strategy is to ensure tourism activities and development in FMU 10 meets the Ecotourism and relevant state tourism guidelines.

The revised members of the committee since 2011 are as shown in **Table 4.11.1**.

Table 4.11.1: Members of Ecotourism Committee for FMU 10

Responsibility	Personal
Chairman	DD Rahim Sulaiman
Secretary	Awangku Effendi Pg Mahmud
Members	DFO Ramli Majid
	DFO Hj. Mohd Nooh Mohd Jiran
	DFO Awang Ismail Awang Tuah
	ADDO Mohd Guntur Arif
	ADO Robert Stidi
	ADO Peter Beatey
	SFMO Jafin Abu Bakar
	Haji Afifuddin Jadin

The terms of Reference for this Committee are as follows:

- To appraise any ecotourism development proposal in FMU 10 from the private sector or any project proponent and make appropriate recommendation to the Director of Forestry based on the guidelines set under the Malaysian Ecotourism Guidelines and Sabah state tourism policy/guidelines

- To hold regular (quarterly interval) Tourism dialogue with stakeholders

4.11.1 Activities done in 2011

Three committee (3) meetings were held in 2011. The first two meetings were done in August and September to decide the mechanisms and management of closing the Kaingaran Trail due to the commencement of the Boardwalk and rest house contract. A decision was to open up climbing trails through Apin-Apin and Sinua. Another meeting to discuss the management of both the Apin-Apin and Sinua trails were done in November and December. A local tourist agent will be used to manage this activity.

4.11.2 Activities in 2012

The work schedule for this strategy in 2012 is described in **Table 4.11.2**. The activities are largely confined to holding quarterly stakeholders dialogue and vetting of ecotourism proposal. Committee and stakeholders meeting on a quarterly basis will be done in 2012. Meetings with interested parties from Kg Sinua and Kaingaran are also anticipated. It is estimated a total expenditure of RM 1,000 will be required.

Table 4.11.2: Implementation Schedule for Strategy 11 in 2011

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Tourism Stakeholders Dialogue	X			X			X			X		
2	Committee Meeting upon receipt of development proposal			X			X			X			X

4.12 Forest Restoration

As in previous years, two (2) sources of funding, namely from the forest rehabilitation funds (Reforestation of Trus Madi Forest Reserve: **(RFTPH)** and from the state government (Reforestation of Burnt Areas for FMU 10: **(RFSTATE)**), had been approved to implement this strategy. Under the **RFSTATE** funding, the implementer is **DD Rahim Sulaiman**, whereas under the **RFTPH** funding, **DFO Ramli Majid** is the implementer. **SFMO Jafin A. Bakar** and **POFMU10 Awangku Effendi Pg Mahmud** are the field supervisors.

As FMU 10 is set aside as a conservation area, the objective of this strategy is the restoration of the **22,000 ha** burnt areas with indigenous tropical species only. Planting of non-indigenous species, including rubber is not allowed at all.

4.12.1 Activities done in 2011

Green Environmental Consult continued its contract until 2nd September 2011. Due to weather conditions some delays were encountered. Nevertheless the company successfully planted 160 ha of the area as stipulated in its contract. Avitrade Plantation Sdn Bhd was again appointed after obtaining an approval from MOF Sabah. The details of both contracts are as follows:

Table 4.12.1: Planting Contracts Awarded in 2011 as Approved by MOF Sabah

Name of Company	Contract No and Area to be planted in 2010	Area Approved by MOF and Funding Source	Validity of Contract
Green Environmental Consult	JP/TM-KGU/02/09 80 Ha	160 HA RTMFR Fund	3 September 2010 - 2 September 2011
Avitrade Plantation Sdn Bhd	JP/TTN/TP(MGT)D11/01/11	300 HA RFSTATE	19 Sept 2011 - 18 Sept 2013

A total area of 300 ha had been successfully planted by Avitrade Plantation Sdn Bhd in 2011. The planted areas are located in Compartment R13 and R19b as well as R20 (**Fig 4.12.1**). On the other hand Green Environmental Consult concentrated its planting in compartment R16 & R19a (**Fig 4.12.3**). In total an area of 1,160 ha had been reforested in FMU10 by 2011 since 2009.

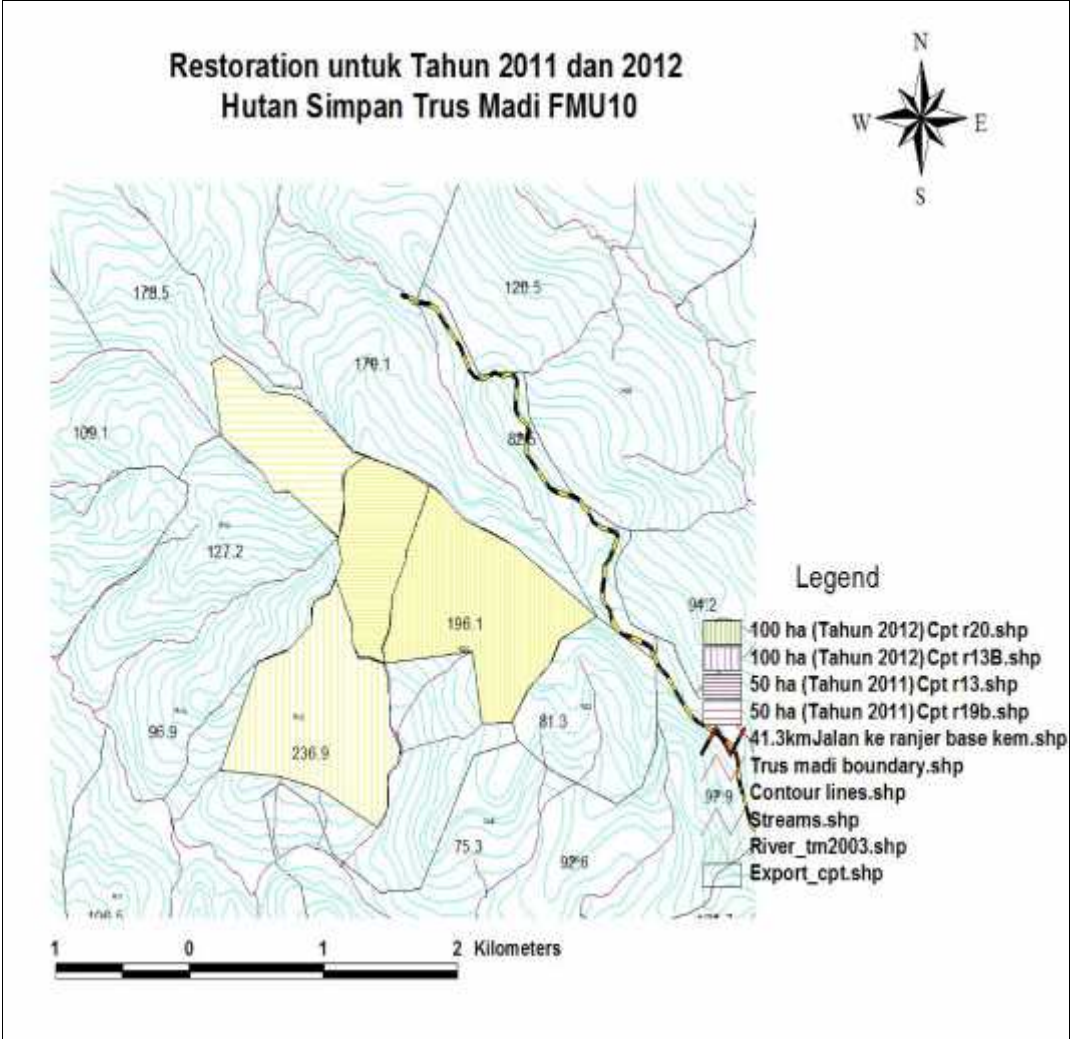


Figure 4.12.1: Location of the planted Area Contracted to Avitrade Plantation Sdn Bhd in 2011

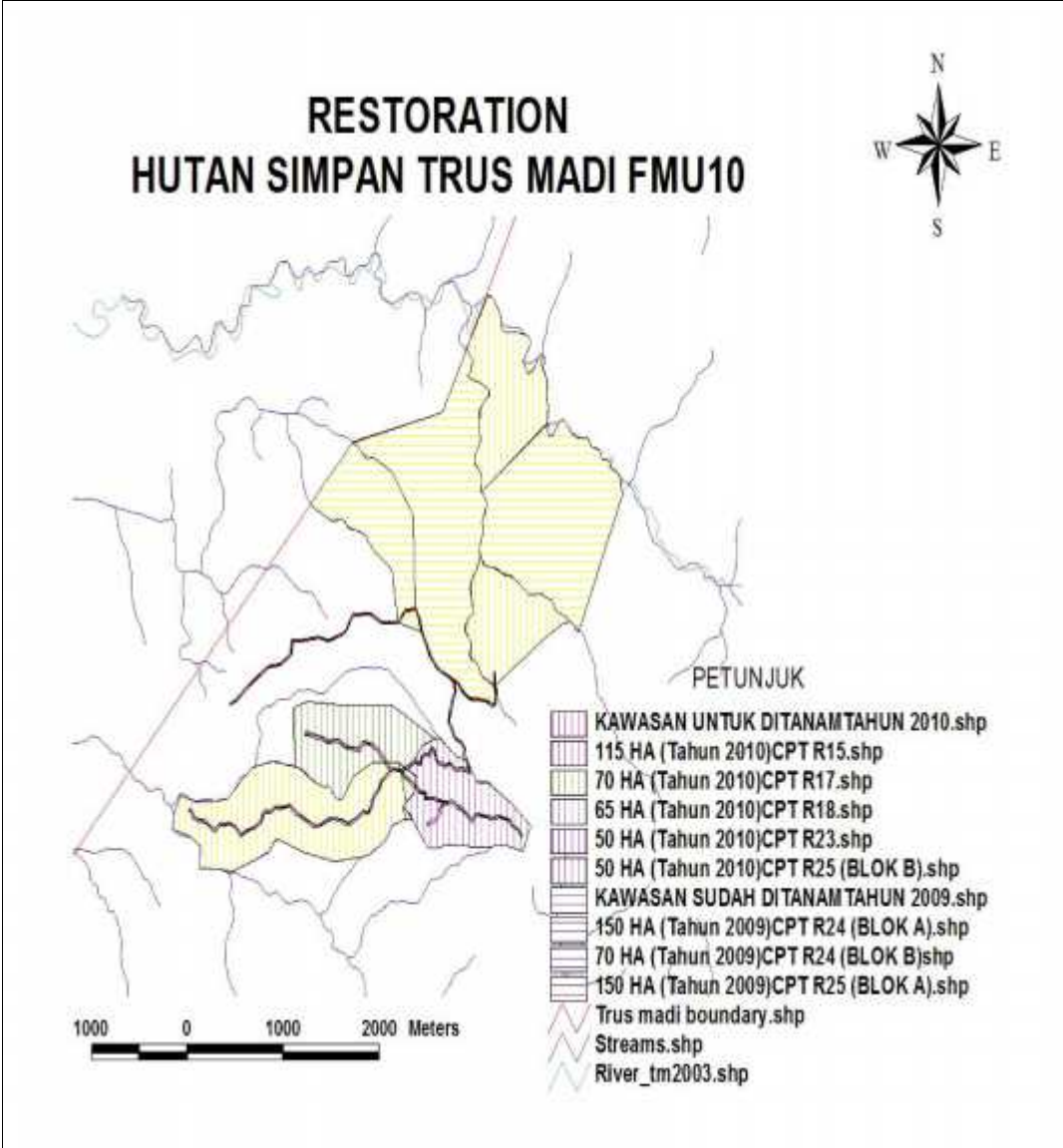


Figure 4.12.2: Location of the 700 ha Restoration areas planted in 2009 and 2010 to be maintained in 2012

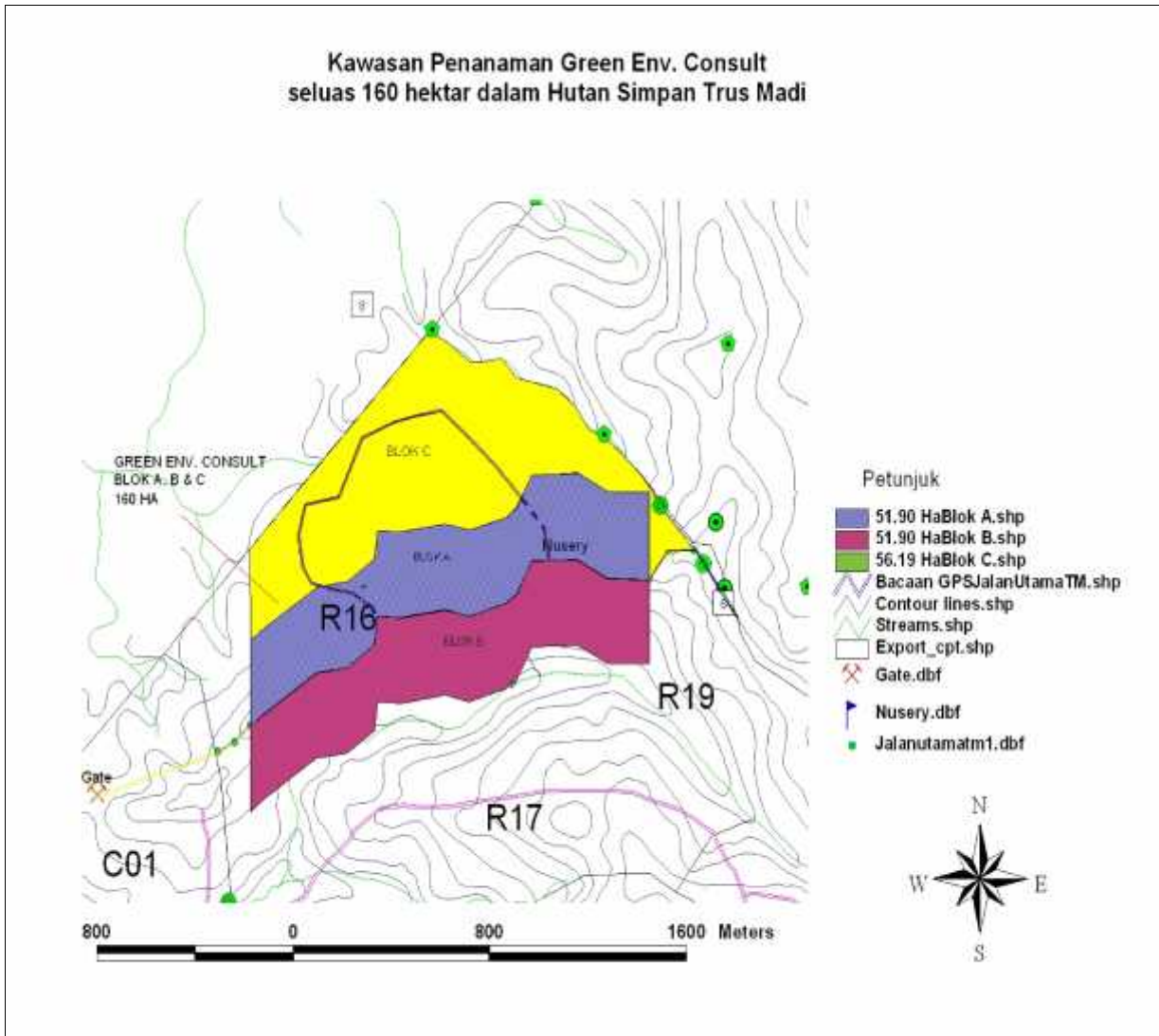


Figure 4.12.3: Location of the planted Area Contracted to Green Environmental Consult in 2010 and 2011 to be maintained in 2012

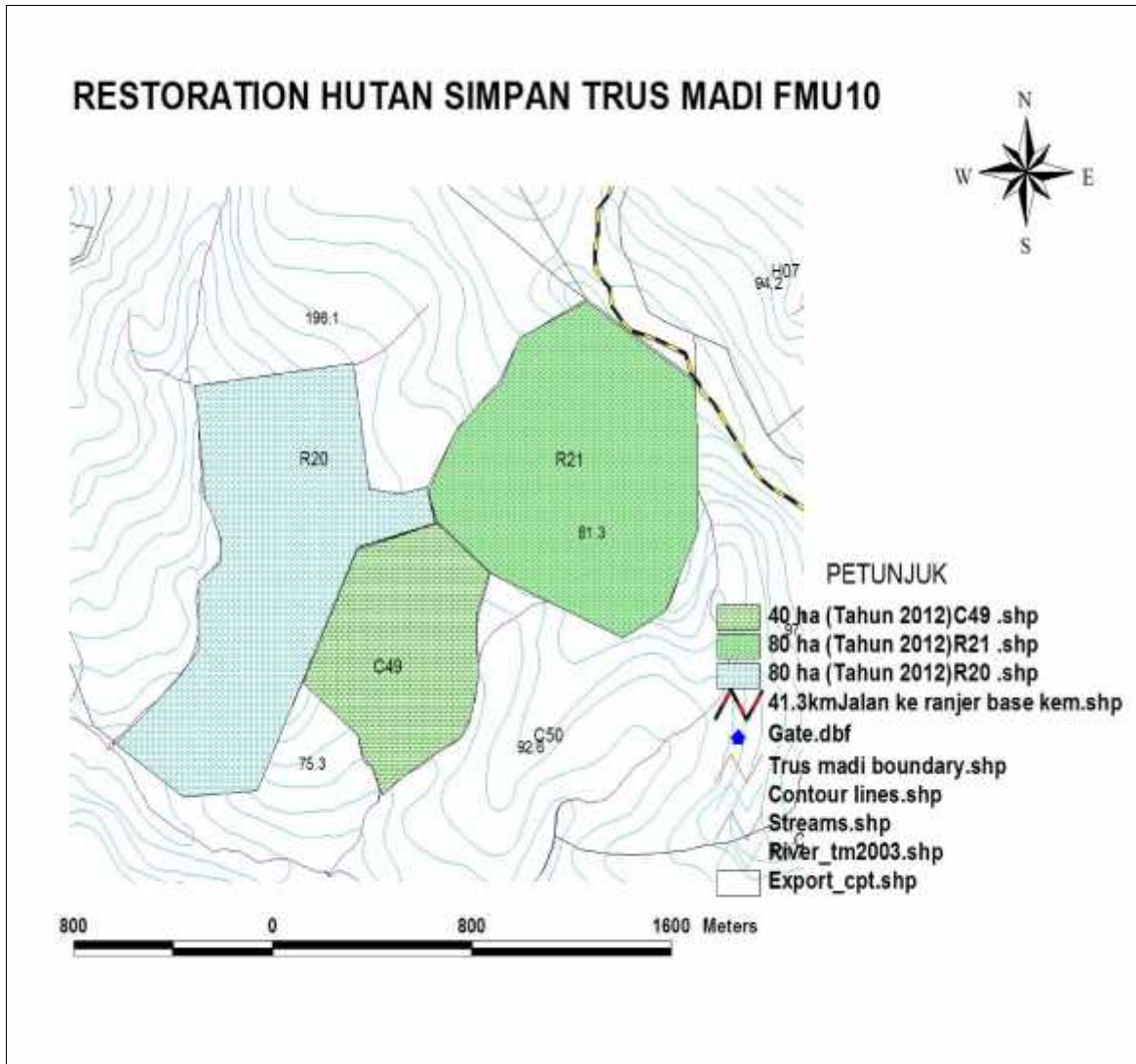


Figure 4.12.4: Locations of Proposed Planting (200ha) in 2012

4.12.2 Activities in 2012

The following activities are planned for 2012:

4.12.2.1 Maintenance of 1000 ha

A total area of 700 ha needs to be maintained at a rate of two (2) times in 2012 (**Fig 4.12.2**). Another 300 ha will need to be maintained and fertilised at three (3) times in 2012 (**Fig 4.12.1**). This will be done by Avitrade Plantation Sdn Bhd.

4.12.2.2 Planting of 200 ha

A tender will be called sometime March 2012 to plant 200 ha at compartment R20, R21 and C49 (**Fig. 4.12.4**).

4.12.2.3 Construction of planting access road and road maintenance in various Compartments

Constructions of planting access road are envisaged for compartment R 13, 14 and 20 covering a length of 7 km. Road maintenance covering a total length of 37 km will also be done in 2012. Works will be contracted out through quotations.

4.13 Flora and Fauna Conservation Targets Survey

Due to the lack of human resources and work commitments of the other partner organisations, the Sabah Fisheries department, only two (2) species conservation targets are planned in 2012. These are:

- 1) Survey of Rajah Brooke and its host plant. **SRO Dr. Chey Vun Khen** is the implementer of this activity
- 2) Survey of hornbills. This will be implemented by **Park Officer Alim Biun**.

4.13.1 Survey of Rajah Brooke and its host plant

The objective of the survey is to ascertain distributions and assessment of conservation viabilities of Rajah Brooke's Birdwing in FMU 10. Due to roads' inaccessibility, survey was limited to the Sinua area in 2011.

4.13.1.1 Activities in 2012

The following are the activities:

- Data analysis and report preparation for Trus Madi (Sinua) Expedition conducted in October 2011.
- A 7 days Survey at Borneo Jungle Girl (BJG).
- Mark and recapture method will be used to estimate the population
- Periodic Monitoring to be done twice a year
- Analysis and Report writing

The schedule is described in **Table 4.13.1a**. The estimated cost for the survey is RM 23,000 (**Tab4.13.1b**).

Table 4.13.1a: Implementation Schedule for R. Brooke survey in 2011

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 4.13.1.b: Estimated Expenditure for R. Brooke survey in 2011

Item	Activities	(PPKNRE) Budget Costs (RM)	(PPKNRE) Vote Costs (RM)	TOTAL
1	Research Tools	10,000	-	10,000
2	Allowances (100x7x3x6)	-	13,000	13,000
	TOTAL	10,000	13,000	23,000

4.13.2 Survey of Hornbills

A total of four (4) surveys were done in 2011 at various locations of FMU 10. Results are still being analysed by Sabah Parks. The reports are expected to be completed by April 2012.

4.13.2.1 Activities in 2012

Table 4.13.2a describe the schedules of the six (6) proposed surveys by Sabah Parks. The estimated expenditure for the hornbills' strategy implementation in 2012 is RM 30,000, mainly for payment of allowances to Sabah Parks staff.

Table 4.13.2: Implementation Schedule for Hornbill in 2012

Activity	January	March	May	July	Sept	Nov
Field data collecting expected to spend 7 days conduct by five staffs of each visit	25th – 31st	25 th – 31st	25 th – 31st	25 th– 31st	25 th- 30th	25 th- 30th
Analyzing data and report writing	After every field work conducted	After every field work conducted	After every field work conducted	After every field work conducted	After every field work conducted	After every field work conducted

4.14 Conservation awareness programme

The objective of this strategy is to create a conservation culture among the communities around FMU 10. This is implemented by **ADFO Tambunan Haji Abdul Rahman Tuah** since 2011.

4.14.1 Activities done in 2011

SFD participated in the Koningau Festival held in November 2011 in Keningau, the District Level Harvest Festival in Tambunan in May 2010 and the Rainforest Carnival in November 2011 also held in Tambunan. Responses from the public, except for the Rainforests Carnival, in all occasions were overwhelming, with more than 250 visitors to the FMU 10's Information booth. For the rainforest carnival, only about 60 people visited the booth. Based on the low visitors, it is proposed that SFD perhaps should not participate in the next Rainforest Carnival organized by the Tambunan Homestay Association.

4.14.2 Activities in 2012

Participation in the Tambunan and Keningau festivals as well as other exhibitions would be continued in 2011. FMU 10 Conservation talk will be done in various secondary schools in Tambunan and Keningau districts. The schedule for this strategy is described in **Table 4.14.1**.

Table 4.14.1: Implementation Schedule for conservation awareness in 2011

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Participation in the Harvest Festival exhibition in Tambunan					X							
2	Participation in the Koningau Fest exhibition in Keningau											X	
3	FMU 10 Conservation Talk in Secondary Schools	X	X	X	X	X	X	X	X	X	X	X	X

The estimated expenditure for the awareness strategy in 2012 is **RM 60,000 (Table 4.14.2).**

Table 4.14.2: Estimated Expenditure for the Awareness Strategy in 2011

No.	Activity	PPKNRE(RM)
1	Koningau Festival	5,000
2	Harvest Festival	5,000
3	Souvenir Production/Climbing Certificate/Exhibition/schools talk/Training/Workshop	50,000
TOTAL		60,000

4.15 Creation of corridors at relevant boundaries

Assessment made by the Forest Resource Management Division (FRM) showed that the total length of the boundary for Trus Madi FR is 136,400 meters. The objective of this strategy is to persuade adjacent landowner to collaborate with SFD regarding the creation of conservation corridor on their land at the relevant boundary of FMU 10.

4.15.1 Activities done for 2011

Due to the heavy work load and lack of manpower in data collections, no activities were done in 2011.

4.15.2 Activities in 2012

The activities set under this strategy for 2012 to be implemented by **ADFO Julius Indu (Tambunan)**, **ADFO Haji Abdul Rahman Tuah (Kiluyu)**, **POFMU10 Awangku Effendi Pg Mahmud (Apin – Apin, Keningau)** and **Haji Afifuddin Jadin (Sinua, Keningau)** are as follows:

- Identify and collect data of land owners based on land title data obtained from Land and Survey Department.
- Meeting and discussion with land owners including companies or individuals near or bordering the boundary of Trus Madi FR.
- Recording data during field inspection visit and from the mapping section of FRM.

The schedule for all activities related to this strategy and targets are shown in **Table 4.15.1**.

Table 4.15.1: Implementation Schedule for strategy 15 in 2012

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Identification and collection of 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

4.15.3 Estimated Expenditure

The total estimated expenditure in implementing this strategy in 2012 is **RM 17,000**. **Table 4.15.2** describes the breakdown of the costs involved.

Table 4.15.2: Estimated Expenditure for Strategy 15 in 2011

Item	Activities	PPKNRE (RM)
1	Identify and collect data of land owners based on ground inspection (Allowances)	14,000
2	Meeting and discussion with kampong people nearest boundary Trus Madi FR.	1,000
4	Record data based on field inspection and from mapping section FRM HQ	2,000
	TOTAL	17,000

4.16 Website development and maintenance

The objective of this strategy is providing the sharing of conservation efforts at FMU 10 globally. This strategy is coordinated by **POFMU10 Awangku Effendi Pg Mahmud**. Expertise of Jabatan Perkhidmatan Komputer Keningau especially Computer Officer Dorothy Polus would be sought in some of the website maintenance. Updating of the website content would be done by the Computer Services Section in headquarters.

4.16.1 Activities done in 2011

The major work done in 2011 under this strategy was to maintain the website throughout the year. This work was assigned to the ICT Division. The Face book account under the name Trus Madi Tambunan unfortunately was hacked by unknown person in August 2011. All photographs highlighting the various activities done from 2010 were also deleted by the hacking of that account. At that time there were 307 Registered Friends to the account, mostly outsiders of SFD.

4.16.2 Activities in 2012

The schedule of work is shown in Table 4.16.1. The estimated expenditure involved is **RM 80,000**, mainly for purchase of computers/Tablets and printers for the FMU 10 Operational office (Table 4.16.2). It is envisaged that the relevant MPCT members and field staff would need to be equipped with PC/Tablets in preparing the laborious documentations required for the certification activity in 2012.

Table 4.16.1: Implementation Schedule for Strategy 16 Implementation in 2011

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Website Maintenance/Face book	X	X	X	X	X	X	X	X	X	X	X	X

Table 4.16.2: Estimated Expenditure for Strategy 16 in 2010

Item	Activities	PPKNRE (RM)
1	Purchase of Computers/ICT Tools including Tablets and printers and inks and maintenance	80,000
TOTAL		80,000

4.17 Scientific/Biodiversity Expeditions

The main objective of this strategy is to document flora and fauna populations in the unexplored parts of FMU 10. This effort will be opened to all government departments and institution of higher learning in Sabah. This work is implemented by **SRO Anuar Mohd.**

4.17.1 Activities done in 2011

The activities done in 2011 were as follows:

- Publication of the Proceedings on the Biodiversity Workshop in Keningau done in March 2010. 500 copies of the proceedings were printed. It was distributed to major libraries in the State and Federal level. Copies were also distributed to the authors and paper presenters including those from UMS and UiTM Sabah.
- Expedition involving some 40 staff from SFD and SWD was done in Sinua in October 2011.

4.17.2 Activities in 2012

The tentative schedule in implementing this strategy is described in **Table 4.17.1**. The estimated cost for executing the expedition is **RM 160,000 (Table 4.17.2)**.

Table 4.17.1: Implementation Schedule for Strategy 17 in 2012

Item	Activity	Month											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Identification of suitable areas			X									
2	Preparation of a Planning Schedule				X								
3	Informing all members of regarding intention to carry out Scientific Expedition						X	X					
4	Recruiting interested parties for FMU 10 Expedition						X	X					
5	Expedition Implementation							X					
6	Presentations of Preliminary Findings by FMU 10 Expedition Teams											X	
7	Submission of Reports to SFD												X
8	Seminar of Biodiversity in Sinua					X							

Table 4.17.2: Costs of Biodiversity Expedition in 2010

Item	Activities	PPKNRE (RM)
1	Seminar for Sinua XPDC	50,000
2	Expedition Costs (camping facilities and allowances)	110,000
TOTAL		160,000

4.18 Maintenance of roads

The objective is to maintain accessible road networks to facilitate surveillance, restoration and other management operations in FMU 10. **DD Rahim Sulaiman** is the main implementer of this activity. **SFMO Jafin Abu Bakar** is the field supervisor for Keningau, and **ADFO Bonaventure Yampai** is the field supervisor for Tambunan. The PWD Keningau and Tambunan are assisting in providing the specifications of roads to be maintained.

4.18.1 Activities done in 2011

Only the rehabilitation roads were maintained and constructed in 2011. The main reason for this is the lack of budget to maintain the other roads.

4.18.2 Activities in 2012

Due to limited funds, only the 48 KM long Jalan Ali Hasan in Apin-Apin will be maintained in 2011 using the budget for Peningkatan Kemudahan Pelancongan (State). This road will be an important link to climbing Mt Trus Madi from the Apin-Apin (Mastan Trail). Tender will be called sometime in March 2012.

5. CONCLUSION

Except for the Serawi, *N. xtrusmadiensis*, and *Rafflesia Keithii*, the remaining five (5) conservation targets, namely, the MHDF, LMF, SS, Rajah Brooke Birdwings and the hornbills' conservation targets and their related strategies, were implemented in 2011. The total manpower of 31 persons from SFD and 13 persons 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 in 2011.

The recruitment of additional staff (En Awangku Effendy Pg Mahmud and Haji Afifuddin Jadin) for the Unit Operasi FMU 10 sited in the DFO Keningau's office, had enhanced the planning and implementation capacity of the MPCT a little. It was however still necessary that existing cooperation and commitments of all of these persons be executed to the maximum by DD Rahim Sulaiman as the Chairman of the Management Planning Core Team (MPCT) for FMU10. The monthly operational meeting had help to resolve any problems or deviations that may arise from such cooperation. This modus operandi would therefore be maintained for 2012.

The next challenge in 2012 for the MPCT members of FMU10, apart from the business as usual planning and implementing activities, would be the preparations of relevant documents for Forest Certification in accordance to the requirements of the FSC Principles. It is envisaged additional Standard Operating Procedures (SOP) of the relevant strategies and activities ranging from controlled hunting, inventory of the conservation targets, restoration, biodiversity expedition, conservation awareness programme and tourism management would need to be developed by the MPCT members. Field visits to relevant certified FMUs managed by SFD would be beneficial to be done for the MPCT members in 2012.

A total of 36 Persons from SFD and an additional 11 persons from the other Departmental partners would be involved in executing the 18 strategies in 2012. However, only 19 are working fulltime in these implementations. A total of **RM 9,435,120.59** from various budgets' sources is estimated for funding these strategies and actions in 2012. In accordance to the mechanism of the RP2, a total amount of **RM 2,594,505.35** would need to be parked under TP (FSP)'s HoB Budget. Based on the premises that all of the 18 strategies planned in 2012 have correspondingly been assigned to specific personnels and given the necessary budget allocations, the probability for implementing the various strategies under this AWP for 2012 is very high.