

Summary of Identification and Monitoring

HIGH CONSERVATION VALUE (HCV)

MUJONG – MELINAU

FOREST MANAGEMENT UNIT (FMU)

T/3361

Introduction

The **High Conservation Value** (HCV) assessment was carried out by an independent consultant in April–October 2016 and the assessment report was released on May 2017. The assessment conducted was based on the tasks and attributes provided in High Conservation Value Forest (HCVF) Toolkit for Malaysia (October 2009) by WWF Malaysia.

The objectives of HCV assessment Mujong – Melinau FMU are listed below;

- 1) To identify High Conservation Values (HCV) presence within Mujong Melinau FMU based on the tasks and attributes provided by WWF toolkits.
- 2) To propose a boundary delineation with relevant guidelines on HCV presence within the FMU.
- 3) To make management recommendations and monitoring procedures to protect, maintain and enhance any identified HCVFs.

Findings on HCV identification assessment

In summary, the findings of **High Conservation Value** (HCV) within FMU based on the tasks and attributes provided by WWF toolkits are listed as Table 1 below;

Table 1: Summary of HCV findings.

Category of HCV	Sub HCV	Task and Attribute	Findings
	1.1	Determined if any Totally Protected Areas (TPAs) is present within or adjacent the FMU	Potentially Present
HCV 1 Biodiversity Values on forest area with globally, regionally or nationally	1.2	Protected, Endangered and Threatened species according to Wild Life Protection Ordinance 1998, IUCN and Appendix II of CITES	Present
significant biodiversity values	1.3	Determine if forest area contains endemic species of flora or fauna	Present
varues	1.4	Critical temporal areas important for wildlife	Present
HCV 2 Landscape-level forest	-	Forest areas important for wildlife species to exist in natural patterns of distribution	Present
HCV 3 Endangered Ecosystems	-	Threatened or Endangered Ecosystems prioritized for conservation management as defined under National Conservation Strategy	Present
HCV 4	4.1	Watershed protection on forest area legally gazetted as Protection Forest for water catchment.	Present
Forest area that provides basic services of nature in	4.2	Determine if forest area is classified as Terrain 4.	Present
critical situations	4.3	Erosion Control on forest areas that have been legally gazetted for soil protection or conservation	Present
HCV 5 Basic needs of local community	-	Forest area is fundamental to meeting basic needs of local communities.	Present
HCV 6 Cultural identity of local communities	-	Forest area is critical to local communities' traditional cultural identity	Present

Control Measure, Management and monitoring to the HCV findings

The FMU will manage, maintain and monitor the HCV identified based on the HCV report findings. The relevant recommendation in assessment report will be used as the baseline in managing and monitoring of HCV attributed presence within FMU. The control measure, action taken and monitoring are shown in table 2 below;

Table 2: Summary of control measures, action taken and monitoring

HCV 1 – BIODIVERSITY VALUES

HCV 1.1 - Protected Areas			
Control measure	Action taken	Monitoring	

The FMU should take management consideration on logging activities along the boundary of the proposed Hose-Laga National Park connected or adjacent with FMUs boundary. Upon and until the TPA is legally gazetted, the FMU will implement management actions in safeguarding HCV 1.1

HCV1.2 -	Endangered,	Rare and	Threatened	(ERT)	SPECIES

Flora				
Control measure	Action taken	Monitoring		
Training to surveyor and crew in tree ID; particularly the protected trees such as fig tree, mothers' tree and ERT species tree under WLPO 1998, CITES and IUCN Red list Marking ERT tree species and protected tree.	Provide tree ID training program organized by STA, FDS and SFC to the surveyors. During the field work, the surveyor and tree feller will mark the protected tree and mother trees in order to protect them.	Carried out internal audit on pre-felling inventory record to ensure the operation adheres to the procedures in pre-felling RIL guidelines to protect the threatened species and mother trees.		

<u>Fauna</u>			
Control measure	Action taken	Monitoring	
Enhance awareness on wildlife particularly ERT species of fauna to workers and local communities.	 Briefing on ERT species of wildlife has been conducted to camp workers and local communities. ERT species poster has been put up on notice board at worker quarters, dining hall, FMU office, workshop and security post. The posters are also distributed to longhouses. 	1. Long-term monitoring shall be carried out to gather information on the ERT fauna species population present at FMU, especially the species under Totally Protected (WLPO), Appendix I (CITES) and the Critically Endangered and Endangered (IUCN).	
To find out the information of ERT species abundance and distribution or presence of any new species Strictly complying with "No hunting" and DF circular	Recording during routine duty of any sighting, sound and sign of ERT species in the field has been carried out. 1. "No hunting" signage and DF circular 6/99 are installed at FMU entrance and camp area.	will be gathered (e.g. Species Diversity, Richness, Evenness, Relative Density, Species Composition) after timber harvesting and continuously monitored.	
6/99 for workers and outsiders	2. Security control and registration at FMU entrance.	3. Regular checking on the log book records.	
Marking critical resources for feeding and breeding of wildlife, such as fig tree	During Pre-Felling inventory, fig trees, protected trees and nesting tree should be tagged and recorded.	4. Registration log book records should be updated regularly.	
HCV 1.3 - Endemism Species			
Control measure	Action Taken	Monitoring	
The control measures, action taken and monitoring in HCV 1.3 is similar to HCV 1.			

HCV 1.4 - Critical Temporal Use			
Control measure	Action Taken	Monitoring	
Establish buffer zone to	The identified saltlick has been	Periodic surveys carry out on	
protect critical site from	demarcated with 100m buffer.	saltlick area to monitor animal	
disturbance by logging		activities and ensure no	
activities.		encroachment or disturbance by	
		machinery in the demarcation	
		boundary.	
Protection of potential	During the pre-felling inventory,	Pre harvesting inventory should	
nesting tree.	potential nesting trees should be	indicate the potential nesting tree	
	tagged and recorded.	on the protection tree record.	

HCV 2 - LANDSCAPE- LEVEL FOREST

Control measure	Action Taken	Monitoring
To protect the river riparian	The ground demarcation of	Periodic monitoring on the water
reserve from any operation	riparian buffer has been	quality following Environment
encroachment	conducted following guidelines	Compliance Audit (ECA)
	recommended by NREB. Buffer	implementation.
	zone signage was installed at	
	roadside.	

HCV 3 - ENDANGERED ECOSYSTEM

Control measure	Action Taken	Monitoring
Identified coupe low stand	Reduce Impact Logging (RIL)	Internal assessment and audit to
and allowed to regenerate	been conducted included the	ensure compliance with
and selected the Perfect	practical training on the ground	management prescription.
Candidate Tree (PCT) to	by SFC for the surveyor and tree	
harvest.	feller.	

HCV 4 - SERVICES OF NATURE

HCV 4.1 - Watershed Protection			
Control measure	Action Taken	Monitoring	
Mark and mapped on the	During implementing pre		
ground any terrain class IV	harvesting activities, any areas		
identified during pre-	identify in category terrain class	Checking on terrain class IV area	
harvesting inventory.	IVshould be marked and mapped.	prior to the submission of Detailed	
To limit any activities at the	During the harvesting operation,	harvesting Plan (DP) for Permit to	
areas steep slope above 33°	no logging activities is allowed in	Enter Coupe (PEC).	
within FMU.	category terrain class IV(classified		
	slope 35°) area.		
HCV 4.2 - Erosion Control			
Control measure	Action Taken	Monitoring	
Adhere with the guidelines approval condition as stipulated in EIA and RIL	 No logging activities should be allowed within Stream Bank Buffer Reserve (SBR). Carryout river buffer demarcation Re-using existing road and skid trail within FMU Proper drainage maintenance and road maintenance. 	Periodically monitoring following Environment Compliance Audit (ECA) implementation.	

HCV4.3 - Barrier Destructive Fire			
Control measure	Action Taken	Monitoring	
Monitor any activities of	Periodically monitoring the fire	Any issue related to open burning	
local communities in SA	prone area especially, the SA near	should be recorded. The reports of	
area during dry season	to operation area during dry	any occurrence will be prepared	
especially nearest with the	season.	and discussed in FMCLC.	
operation areas.			

HCV 5 - BASIC NEED OF LOCAL COMMUNITY

Control measure	Action taken	Monitoring
Protect the local community	1. The ground demarcation of	● Any issue arise, conflict and
areas that provided basic	boundary was conducted to	grievances should be recorded.
need such as food sources	protect the Shifting	The Forest Management
and water sources for	Agriculture (SA) areas within	Certification Liaison Committee
livelihood from any impacts	and adjacent with operation	(FMCLC) meeting is conducted
of operation.	areas.	annually to monitor the issues.
	2. All longhouses water	● The water catchment area is
	catchments within FMU have	demarcated on HCV map for
	been identified, mark, and	monitoring.
	mapped.	

HCV 6 - CULTURAL IDENTITY OF LOCAL COMMUNITY

Control measure	Action taken	Monitoring
Protect the burial site of	All longhouses burial site within	The monitoring of HCV 6 is same
local communities within	FMU has been identified, marked	as HCV 5.
FMU.	and mapped.	