

ENTULU – MELATAI FMU ANNUAL FOREST MONITORING REPORT - Year 2023
Forest Timber Licence No. T/3476
MONITORING MITIGATION AND MEASUREMENTS FOR FOREST MANAGEMENT PLAN
(Response to MC&I Indicator SFM 8.1.2)

No.	Monitoring Element	Indicators	Remarks / Report
1.	The yield of forest product	Log production summary	- Total Log Production YTD is 13,147.9193 m ³ (Jan – June 2023).
2.	Growth rates	Summary of re-assessment of PSP's since the establishment.	- A total of 45 families, 48 Genera and 65 Species recorded. The most dominant family was Dipterocarpaceae (35.52% of individual trees), and Non-Dipterocarp (64.48%). - Stocking of saplings in the plots were ranged from 90-138 stems/ha, while seedlings stock varied from 1,600 - >9615 stems/ha. - Information on tree growth, mortality rate and recruitment rate will be obtained when the first re-assessment has been conducted 3-4 years (2023 onwards) after the establishment of plots. - Re-assessment of 4 PSP plots.
3.	Forest regeneration	Species composition and no. of sapling recorded	
4.	Forest Condition	Diameter distribution and forest quality.	
5.	Composition of Flora and Fauna	List of Flora and Fauna found in FMU.	<u>Flora</u> - The analysis has covered Coupe 01A with total enumerated areas of 837 ha. (13 blocks only) and Coupe 02A with total enumerated area of 464 ha. (7 blocks only). - 65 species has covered in Coupe 01A and 51 species in Coupe 02A. - The most recorded species in Coupe 01A and Coupe 02A is <i>Meranti Merah (Shorea spp. MRTM)</i> . - With 6 trees/ha recorded in Coupe 01A.
6.	Changes in Flora and Fauna	Number and abundance of species found in FMU and comparison between earlier and recent assessment	<u>Flora</u> - The ratio of Dipterocarp in Coupe 01A is 35.52 % and Coupe 02A is 48.94%. - Species found in Coupe 01A is equal to 65 and Coupe 02A is 51. The stand density in Coupe 01A is 4 -10 trees/ha. and Coupe 02A is 3-11 trees/ha. <u>Fauna</u> - No change of wildlife composition recorded in 2022.

			- The total number of wildlife species as in summary until June, 2023 recorded is 139 species.
7.	Environmental Impacts of Forest Operation.	Harvesting Impact	- The FMU had completed the assessment in Block nos. 8 & 18 of Coupe 01A. - Coupe 02A is progressing.
		EIA Approval term and condition	- 1 Internal Environmental Compliance Audit (IECA) was conducted in 2023.
8.	Social Impact of Forest Operation	Evidence of FPIC and joint identification of social sites for native.	- No FPIC and joint identification of social sites was conducted.
		Evidence of provision of SCR/Community services	- CSR/Community service such as festival celebrations, funeral aid, etc. through individual payment.
		Number of forest encroachment by local community.	- No encroachment by local community was recorded.
		Number of complaints, disputes and conflicts encountered with directly affected native.	- No complaint, disputes and conflict encountered with directly affected native recorded.
		Evidence of FPIC and joint identification of special sites for native.	- No
		Number of property damage.	- No property damage was recorded.
9.	Occupational Safety and Health	Number of fatal accidents per annum	- No fatal accident was recorded.
		Number of serious accidents per annum	- No serious accident was recorded.
		Number of minor accidents per annum	- 1 minor accident was recorded.
		Number of negligible accidents per annum	-1 negligible accident was reported.
10.	Cost of forest management	Administration/overhead cost per ha.	- The average cost of administration is RM70.00/m ³ .
11.	Productivity of forest management	Harvested area per annum	- YTD, a total of 572 ha. had been harvested in Coupe 02A. - 3,129 stands enumerated in Coupe 02A (Based on 8 blocks). - 2,849 stands had been harvested in Coupe 02A (Based on 8 blocks).

12.	Forest Protection	The number of forest encroachment per annum	- YTD, no encroachment was detected from 2 patrolling conducted.
13.	The efficiency of forest management.	The machine productivity by contractor (production/ machine hour, production/ machine/month)	Average machine productivity by the contractor: - Modified Excavator with Wincher – 112 m ³ /unit/month - Tractor (Skidder) – 137 m ³ /unit/month - Logging truck - 274 m ³ /unit/month.
		Total harvesting cost per m ³ delivered to log yard	- The average harvesting cost per m ³ delivered to the log pond is RM 380/m ³
		Cost of Road maintenance per Kilometer.	- the average cost of road maintenance is RM2,500/km.