

MENGIONG – GAAT FMU ANNUAL FOREST MONITORING REPORT - Year 2023-2024
Forest Timber Licence No. T/3401 (STIDC)
MONITORING MITIGATION AND MEASUREMENTS FOR FOREST MANAGEMENT PLAN
(Response to Indicator 8.1.2 of MC&I SFM)

No.	Monitoring Element	Indicators	Remarks / Report
1.	The yield of forest product	<ul style="list-style-type: none"> Log production summary 	<ul style="list-style-type: none"> Total Log Production (Jan - Dec 2023 = 15,209 m³) Total Log Production (Jan – Aug 2024 = 12,084 m³)
2.	Growth rates	<ul style="list-style-type: none"> Summary of re-assessment of PSP's since the establishment. 	<ul style="list-style-type: none"> A total of 38 families, 39 Genera and 43Species recorded. The most dominant family was Dipterocarps (54.6%) and followed by Non-Dipterocarps (45.4%). Stocking of saplings in the plots were ranged from 200-250 stems/ha, while seedlings stock varied from 3,750 - >17,500 stems/ha. The average of Potential Crop Tree (PCT) was at 23 stands per record. The average tree growth rate is at DBH of 1.13 cm/stand/year, mortality rate at 7-8 trees/ha or less than <0.5% and survival rate will be at 99.5% based on total number of trees re-assessed during the 1st re-assessment on the 6 PSP plots established 3-4 years before.
3.	Forest regeneration	<ul style="list-style-type: none"> Species composition and no. of sapling recorded 	
4.	Forest Condition	<ul style="list-style-type: none"> Diameter distribution and forest quality. 	
5.	Composition of Flora and Fauna	<ul style="list-style-type: none"> List of Flora and Fauna found in FMU. 	<p><u>Flora</u></p> <ul style="list-style-type: none"> The analysis has covered 17 blocks of Coupe 01A with total enumerated areas of 1,013ha.. A total of 43 species were covered. The analysis has covered also 14 blocks of Coupe 02A with total enumerated areas of 858 ha.. A total of 25 species were covered. The most dominant species is <i>Meranti Merah (Shorea spp. MRTM)</i>. An average harvestable stand of 5-6 trees/ha recorded. <p><u>Fauna</u></p> <ul style="list-style-type: none"> 41 species were covered in year 2023.

6.	Changes in Flora and Fauna	<ul style="list-style-type: none"> Number and abundance of species found in FMU and comparison between earlier and recent assessment 	<p><u>Flora</u></p> <ul style="list-style-type: none"> The ratio of Dipterocarp : Non-Dipterocarp is 54.6% : 45.4% in Coupe 1A. 43 species were found based on 100% enumeration inventory recorded in Coupe 1A. The average harvestable stands density is at 5-13 trees/ha. <p><u>Fauna</u></p> <ul style="list-style-type: none"> No change of wildlife composition recorded in 2023 - 2024. The total number of wildlife species recorded as at December, 2023 were 41 species. The total number of wildlife species recorded as at June, 2024 were 17 species.
7.	Environmental Impacts of Forest Operation.	<ul style="list-style-type: none"> Harvesting Impact 	<ul style="list-style-type: none"> The FMU has completed the re-assessment through 10% enumeration inventory in Block 5 of Coupe 01A. The harvesting impact is minimal at 1-2 trees/ha recorded. The average Potential Crop Trees (PCT) at 23 trees/ha recorded.
8.	Social Impact of Forest Operation	<ul style="list-style-type: none"> EIA Approval term and condition Evidence of social site for native. 	<ul style="list-style-type: none"> Environmental Monitoring Record (EMR) was conducted quarterly in year 2023 and 2024. There was no joint identification of social sites was conducted in 2023.
		<ul style="list-style-type: none"> Evidence of FPIC and joint identification of social sites for native. 	<ul style="list-style-type: none"> There was no FPIC and joint identification of special sites for native was conducted in 2023.
		<ul style="list-style-type: none"> Evidence of provision of CSR/Community services 	<ul style="list-style-type: none"> YTD, CSR/Community service such as festival celebrations and others through individual payment.
		<ul style="list-style-type: none"> Number of forest encroachment by local community. 	<ul style="list-style-type: none"> No encroachment by local community was recorded.
		<ul style="list-style-type: none"> Number of complaints, disputes and conflicts encountered with directly affected native. 	<ul style="list-style-type: none"> In 2023-2024, no complaint, disputes and conflict encountered with directly affected native was recorded.
		<ul style="list-style-type: none"> Evidence of FPIC and joint identification of special sites for native. 	<ul style="list-style-type: none"> Stakeholder consultation with local community was conducted in May 2023 concerning one (1) ecology plot site preserved in Coupe 18.

		<ul style="list-style-type: none"> Evidence of provision of SCR/Community services. Number of property damage. 	<ul style="list-style-type: none"> YTD, CSR/ Community Service such as education funds to students, festival celebrations and others. In 2023-2024, no property damage was recorded.
9.	Occupational Safety and Health	<ul style="list-style-type: none"> Number of fatal accidents per annum 	<ul style="list-style-type: none"> No fatal accident was recorded.
		<ul style="list-style-type: none"> Number of serious accidents per annum 	<ul style="list-style-type: none"> No serious accident was recorded.
		<ul style="list-style-type: none"> Number of minor accidents per annum 	<ul style="list-style-type: none"> No minor accident was recorded.
		<ul style="list-style-type: none"> Number of negligible accidents per annum 	<ul style="list-style-type: none"> No negligible accident was recorded.
10.	Cost of forest management	<ul style="list-style-type: none"> Harvesting cost per ha. 	<ul style="list-style-type: none"> The average cost of harvesting is maintained at RM45/m³.
		<ul style="list-style-type: none"> Administration/overhead cost per ha. 	<ul style="list-style-type: none"> The average cost of administration/overhead is RM 175/m³ with no increment.
11.	Productivity of forest management	<ul style="list-style-type: none"> Harvested area per annum 	<ul style="list-style-type: none"> YTD, a total of 1,013 ha had been harvested in Coupe 01A. Harvestable of 8,893 stands through 100% enumeration inventory in Coupe 01A (based on 17 blocks only).
12.	Forest Protection	<ul style="list-style-type: none"> The number of forest encroachment per annum 	<ul style="list-style-type: none"> YTD, no encroachment was detected from 2 patrolling/monitoring conducted.
13.	The efficiency of forest management.	<ul style="list-style-type: none"> The machine productivity by contractor (production/ machine hour, production/ machine/month) 	<ul style="list-style-type: none"> Average machine productivity by the contractor: <ul style="list-style-type: none"> Modified Excavator with Wincher - 300m³/unit/month Tractor (Skidder) - 300m³/unit/month Logging truck - 400 m³/unit/month.
		<ul style="list-style-type: none"> Total harvesting cost per m³ delivered to log yard 	<ul style="list-style-type: none"> The average harvesting cost per m³ delivered to the log pond is RM95/m³
		<ul style="list-style-type: none"> Cost of enrichment planting per ha. 	<ul style="list-style-type: none"> YTD, enrichment planting covered 4 blocks in Coupe 01A at RM 1,100/ha.
		<ul style="list-style-type: none"> Cost of Road maintenance per Kilometer. 	<ul style="list-style-type: none"> The average cost of road maintenance is RM1,500-RM2,000/km.