

EXECUTIVE SUMMARY

THE PROPOSED 8,498.58 HECTARES (21,000 ACRES) OF LOGGING AND OIL PALM PLANTATION IN PRIVATE LAND AT PT 12227, MUKIM KERATONG, DISTRICT OF ROMPIN, PAHANG DARUL MAKMUR

PROJECT PROPONENT

YP OLIO SDN BHD

EIA CONSULTANT

ECO SYNERGY SOLUTION SDN BHD

INTRODUCTION

The project proponent is YP Olio Sdn Bhd. The project has been approved by MMK Pahang, 20/2017 dated on 19 July 2017 to YP Olio Sdn Bhd as a land owner to develop agriculture area covering about 8,498.58 hectares (21,000 acres).

LEGAL REQUIREMENT

Subject to section 34A (1) of the Environmental Quality Act 1974 [127] and Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015, the project site fall under **Second Schedule:**

Second Schedule:

Activity 1(a) Agriculture: Land development schemes covering an area of 500 hectares or more to bring forest into agricultural production

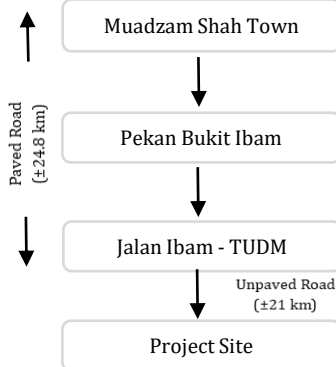
Activity 5 (c) Forestry: Logging or cutting or taking of timber from forest at 300 meters or more above mean sea level covering an area of 100 hectares or more, outside permanent reserved forest

Activity 5 (d) Forestry: Logging or cutting or taking of timber covering an area of 500 hectares or more

ACCESS ROAD

NEAREST TOWN
Muadzam Shah Town
(±45.8 km)

ACCESS ROAD



PROJECT ACTIVITIES

During Logging

- Construction of road and drainage system
- Installation of erosion and sedimentation control tools
- Construction of base camp
- Construction of log yard
- Extraction of timber
- Transport logs onto trucks
- Transport logs to log yard
- Transport logs to sawmill
- Biomass management

Post Logging

- Demolition of base camp and log yard
- Removal of machineries, vehicles and waste from concession

Plantation Development

- Nursery Establishment and Construction of Quarters and Site Office
- Site Preparation
- Maintenance
- Harvesting

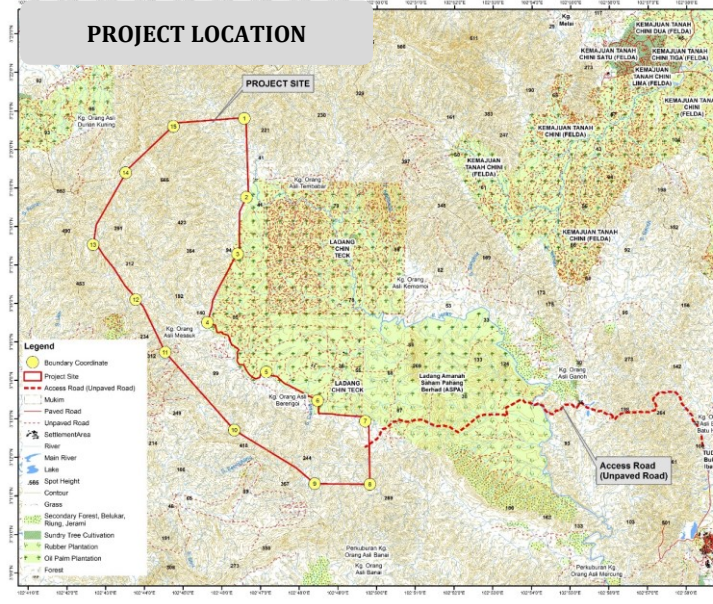
PROJECT DESCRIPTION

- The Project site is in Private Land Bukit Batu Putih, Mukim Keratong, District of Rompin, Pahang Darul Makmur
- The human settlement identified within 5 km radius are KOA Berenggoi, KOA Mesauk, KOA Banai, KOA Tembabar and KOA Durian Kuning.
- Water intake point for Muadzam Shah Water Treatment Plant located approximately ±50 km from the Project site. Water quality modelling has been conducted to estimate the TSS load and recommendation of mitigation measures will be proposed.

WATER QUALITY

- There are thirty one (31) water quality station
- Based on the calculations of the WQI, it shows that the range of WQI on September 2019 is in between 72.95 and 97.76
- Based on the calculations of the WQI, it shows that the range of WQI on Dec/Jan 2020 is in between 81.50 and 94.05

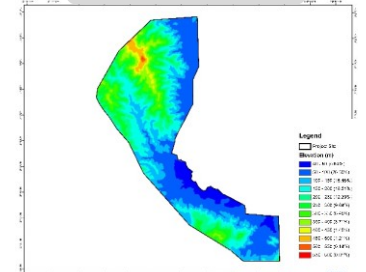
PROJECT LOCATION



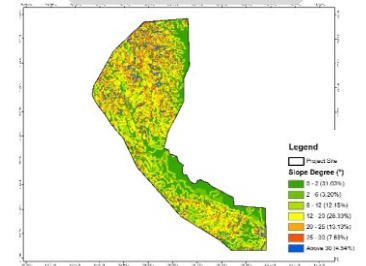
PROJECT SITE CONDITION



ELEVATION



SLOPE ANALYSIS



FAUNA STUDY

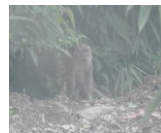
Mammals
11 species

Avian
34 species

Herpetofauna
9 species



Footprint of Leopard Cat

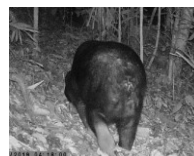


Long-tailed Macaque

WILDLIFE FOUND ON CAMERA TRAP



Tapir



Sun Bear



Malayan Porcupine

FLORA STUDY

Ten dominant family at the project site

Family	No of Genus	No of Species
Rubiaceae	16	21
Leguminosae	14	21
Annonaceae	10	19
Dipterocarpaceae	4	18
Euphorbiaceae	6	17
Clusiaceae	4	15
Malvaceae	10	14
Anacardiaceae	9	14
Bursaceae	4	14
Phyllanthaceae	6	10

ASSESSMENT FINDING WITHIN PROJECT SITE



Pavetta graciliflora



Pternandra echinata

IMPACT MONITORING (IM)

Component	Regulated Parameters	Monitoring Locations	Frequencies
*Air Quality	PM ₁₀	Refer Figure 6.45 in Chapter 6	Quarterly
**Noise	L _{eq} L _{max} L _{min}	Refer Figure 6.45 in Chapter 6	Quarterly
***Water Quality	Total Suspended Solids (TSS) Biochemical Oxygen Demand (BOD) pH Temperature Turbidity Ammoniacal Nitrogen (NH ₃ -N) Dissolved Oxygen (DO) Total Coliform Chemical Oxygen Demand (COD) Pesticide & Herbicide NPK Heavy Metal	Refer Figure 6.45 in Chapter 6	Monthly
****Groundwater	Based on <i>Standard Kualiti Air Tanah Bagi Rawatan Air Mentah Secara Konvensional</i> by Department of Environment	Refer Figure 9.1 in Chapter 9	Quarterly

PERFORMANCE MONITORING (PM)

LD-P2M2 Tools	Performance Monitoring (PM) Parameters	Recommended Limit	Frequencies
Sediment Trap	Silt Marker	2/3 depth from sediment trap	Weekly or after rain event (<i>in-situ</i>)
Perimeter Drain	Performance		
River Buffer Cover Crop			
Earth Drain with Check Dam	Sediment Level	-	Quarterly
Temporary or permanent waterway crossing (culvert/bridge)	Structure and Performance		

COMPLIANCE MONITORING (CM)

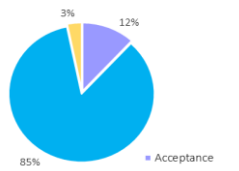
Component	Regulated Parameters	Applicable Standards	Frequencies
**Noise	L _{eq}	Day: 55 dBA Night: 50 dBA	Quarterly
***Water Quality (Discharged from Sediment Trap)	Total Suspended Solids (TSS)	50 mg/L	After 12.5 mm rainfall (using rain gauge)
	Turbidity	250 NTU	

POTENTIAL IMPACT AND MITIGATION MEASURES

Significant Potential Impacts	Magnitude Of Significant Potential Impacts	P2M2
1) Soil erosion and sedimentation 2) Reduce river depth/drain capacity 3) Declining water quality level	High	<ul style="list-style-type: none"> • Scheduling of the development. • Plant cover crop. • Prepare silt trap, and sediment basin. • Retain buffer zone.
Waste Generation a) Biomass waste b) Solid waste c) Scheduled waste	High	<ul style="list-style-type: none"> • No open burning. • Provide garbage bins. • Composting waste approach. • Proper storage area.
1) Habitat-Fragmentation. 2) Human-Wildlife Conflict	High	<ul style="list-style-type: none"> • Phasing/Directional development. • Wildlife-Human conflict management strategies. • Report incident. • Prohibition of wildlife poaching • Signage on prohibition of wildlife hunting or trapping.
Declining Air Quality Level	Medium	<ul style="list-style-type: none"> • Spraying water on road (water bowser) • Apply crusher run for unsealed road
Noise Pollution	Low	<ul style="list-style-type: none"> • Use quieter and/or silence machineries. • Use proper personal protection equipment (PPE) on site with ear plug. • Regularly servicing and maintaining vehicles and machineries.
Nuisance During Project Abandonment	Medium	<ul style="list-style-type: none"> • Preparing Project Abandonment Plan. • Warning signage to be installed. • Removes vehicles involved in the Project development. • Initiate environmental control measures. • Regular inspections on site.

PUBLIC ACCEPTANCE

Percentage Of Acceptance



Muadzam Shah Station
Avg. Annual Rainfall:
2351.5 mm

Avg. Monthly Temperature:
Max - 27.7%
Min - 26.0%

Avg. Monthly Humidity:
Highest - 87.0°C
Lowest - 81.8°C