

# ENVIRONMENTAL IMPACT ASSESSMENT

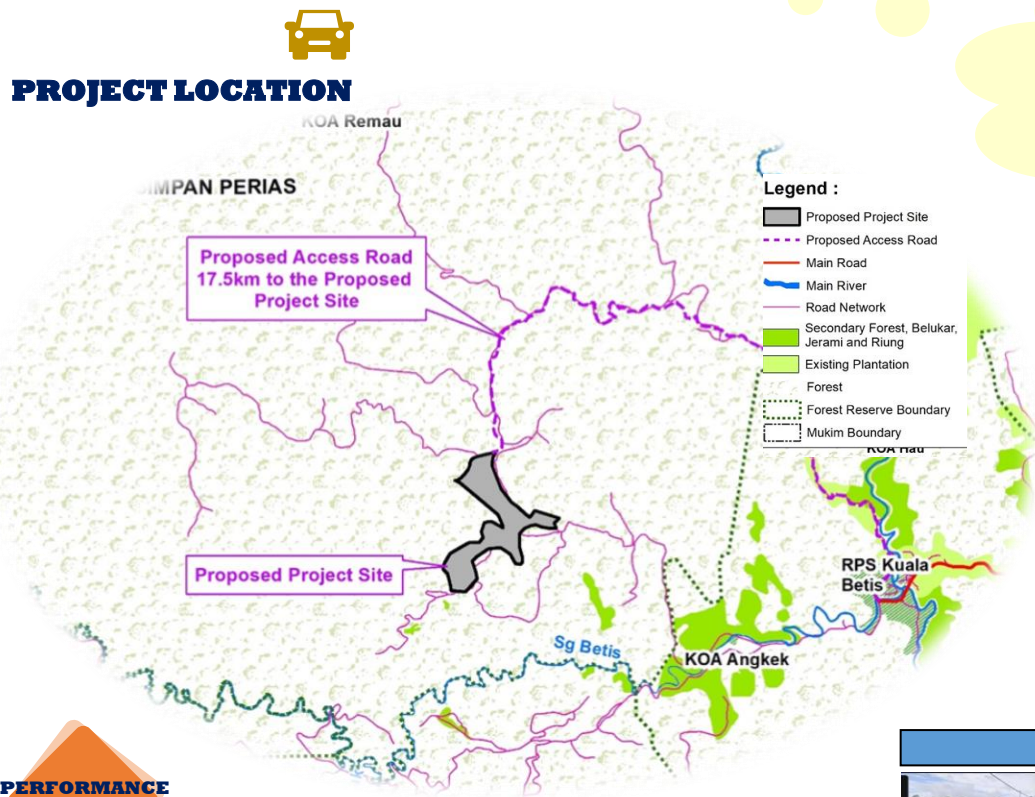
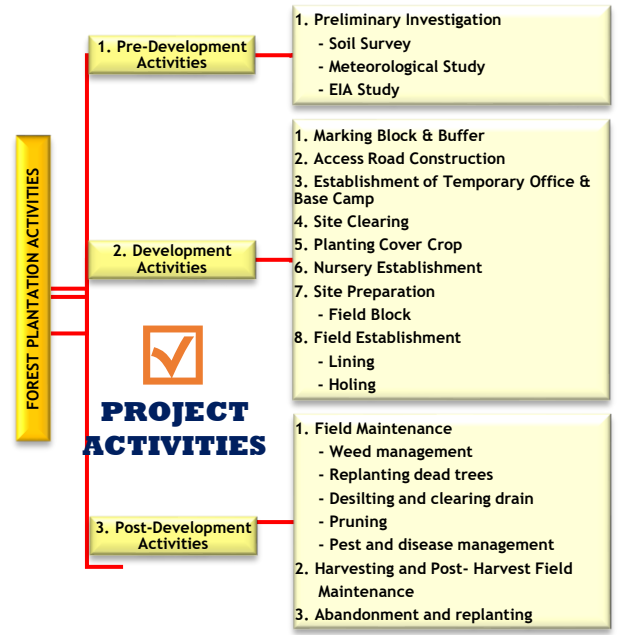
**PROJECT PROPONENT**  
DAULAH NAJAH SDN BHD

**EIA CONSULTANT**  
ECOLESTARI CONSULT

**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 First Schedule;

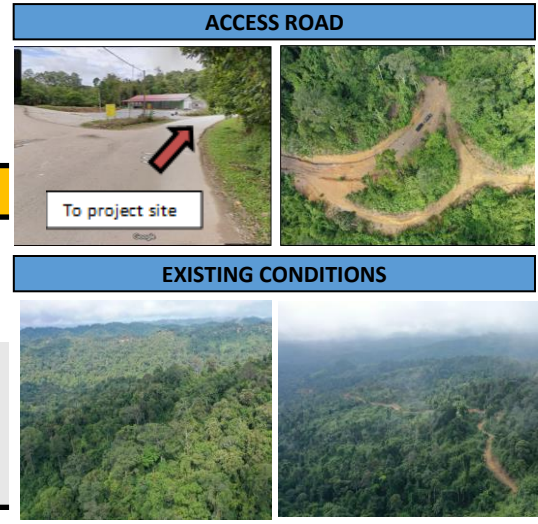
"Activity 5(e) Forestry: Development of planted forest covering an area of 100 hectares or more but less than 500 hectares"



**EXECUTIVE SUMMARY**  
CADANGAN PROJEK PEMBANGUNAN LADANG HUTAN SELUAS 197 HEKTAR DI KOMPARTMEN 265, 266, 304, 305 DAN 306 (SEBAHAGIAN) HUTAN SIMPAN KEKAL PERIAS, MUKIM ULU NENGGIRI, DAERAH BERTAM, JAJAHAN GUA MUSANG, KELANTAN DARUL NAIM

**PROJECT TITLE**

- PROJECT DESCRIPTIONS**
- 01** The project site is located in compartment part of 265, 266, 304, 305 dan 306 in Perias Forest Reserve covering 197 hectares.
  - 02** The nearest town being the Gua Musang town which is about 45.3 km to the east of the project site
  - 03** The Project will develop a forest plantation covering an area of about 197 hectares
  - 04** KOA Angkek is the nearest KOA settlement to the Project site, approximately 4 km radius from the proposed project site



**ACCESS ROAD**

The project site can be accessed via Gua Musang by using Jalan Gua Musang - Kg Kuala Betis (±20.8 km);  
Then continue straight to Kg Kuala Betis about ±7.0 km.  
Continue via existing road network for about 17.5 km.

**POTENTIAL IMPACTS AND MITIGATION MEASURES**

SIGNIFICANT POTENTIAL IMPACTS	MITIGATION MEASURES
1) Soil erosion and sedimentation	Scheduling of the development.
2) Reduce river depth/drain capacity	Plant cover crop.
3) Declining water quality level	Prepare silt trap, and sediment basin.
Waste Generation	Retain buffer zone.
a) Biomass waste	No open burning.
b) Solid waste	Apply air curtain burner.
c) Scheduled waste	Provide garbage bins.
1) Habitat-Fragmentation.	Composting waste approach.
2) Human-wildlife Conflict	Proper storage area.
Declining Air Quality Level	Phasing/Directional clearing.
Noise Pollution	Wildlife-Human conflict management strategies.
Nuisance During Project Abandonment	Report incident.
	Prohibition of wildlife poaching
	Signage on prohibition of wildlife hunting or trapping.
	Spraying water on road (water bowser)
	Provide wash through
	Apply crusher run for unsealed road
	Use quieter and/or silence machineries.
	Use proper personal protection equipment (PPE) on site with ear plug.
	Regularly servicing and maintaining vehicles and machineries
	Preparing Project Abandonment Plan.
	Warning signage to be installed.
	Removes vehicles involved in the project development.
	Initiate environmental control measures.
	Regular inspections on site.

**PERFORMANCE MONITORING (PM)**

LD-P2M2 Tools	Parameters	Recommended
Sediment Basin/Trap	Silt Marker	2/3 depth from sediment trap
Perimeter Drain	Performance	Weekly or after rain event (in-situ)
Earth Drain with Check Dam	Sediment Level	Quarterly
Temporary or permanent waterway crossing (culvert/bridge)	Structure and Performance	

**IMPACT MONITORING (IM)**

Impact	Parameter	Limit	Standards	Frequency
Air Quality Level	PM <sub>10</sub>	100 µg/m <sup>3</sup>	Malaysia Ambient Air Quality Standard 2020	Monthly
Noise Quality Level	L <sub>max</sub> L <sub>min</sub>	Day 55 dBA, Night 50 dBA	Guideline for Environmental Noise Limits & Control, Third Edition 2019	Monthly
Water Quality Level	TSS BOD pH Turbidity DO COD	50 mg/L 3 mg/L 6.0-9.0 50 NTU 5-7 mg/L 25 mg/L	National Water Quality Standard (NWQS)	Monthly

**COMPLIANCE MONITORING (CM)**

Component	Standard	Frequency	
Noise (L <sub>Aeq</sub> )	Day 55 dBA, Night 50 dBA	Monthly	
Water Quality	TSS Turbidity	50 mg/L 250 NTU	Monthly

**EXISTING ENVIRONMENT**

WATER QUALITY INDEX (WQI)				AIR QUALITY RESULT	
STATION	WQI	CLASS	STATUS		
WQ1	93.29	I	Clean	A1	PM <sub>10</sub> : 8.43 µg/m <sup>3</sup>
WQ2	94.56	I	Clean		PM <sub>2.5</sub> : 4.28 µg/m <sup>3</sup>
WQ3	93.37	I	Clean	A2	PM <sub>10</sub> : 10.50 µg/m <sup>3</sup>
WQ4	93.71	I	Clean		PM <sub>2.5</sub> : 5.12 µg/m <sup>3</sup>
WQ5	89.48	II	Clean	<b>NOISE QUALITY RESULT</b>	
WQ6	92.57	II	Clean	N1	Daytime: 46.3 dBA
WQ7	92.09	II	Clean		Nighttime: 43.8 dBA
				N2	Daytime: 51.8 dBA
					Nighttime: 45.1 dBA

**FAUNA SPECIES RECORDED**

- Avian: 80 species
- Mammals: 23 species
- Herpetofauna: 16 species