



EXECUTIVE SUMMARY

KenEp Consultancy & Services

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“Proposed Forest Plantation Development on Parts of Compartment 216, 217 & 218 with a Total Area of 253.19 Hectares (±625.63 Acres) in Ulu Jelai Forest Reserve, Mukim Ulu Jelai, District of Lipis, Pahang Darul Makmur”.

PROJECT PROPONENT

Barisan Adab Sdn. Bhd.
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STATEMENT OF NEED



Proposed Forest Plantation Development

LEGISLATIVE REQUIREMENT

Environmental Quality (Prescribed Activities)
(Environmental Impact Assessment) Order 2015

First Schedule

Prescribed Activity 5(e): “FORESTRY: Development of planted forest covering an area of 100 hectares or more but less than 500 hectares”.

PROJECT LOCATION



Part of Compartment 216, 217 & 218 in Ulu Jelai Forest Reserve, Mukim Ulu Jelai, District of Lipis, Pahang Darul Makmur.



The proposed Project area can be accessed by traversing towards FELCRA Sungai Temau through Federal Route 8. The unpaved access road (old logging road) can be found on the left side of the main road. The transportation route of heavy vehicles during the development and operational stage will be via Federal Route 8. The Project Proponent will be responsible for the maintenance of the road throughout project development period.

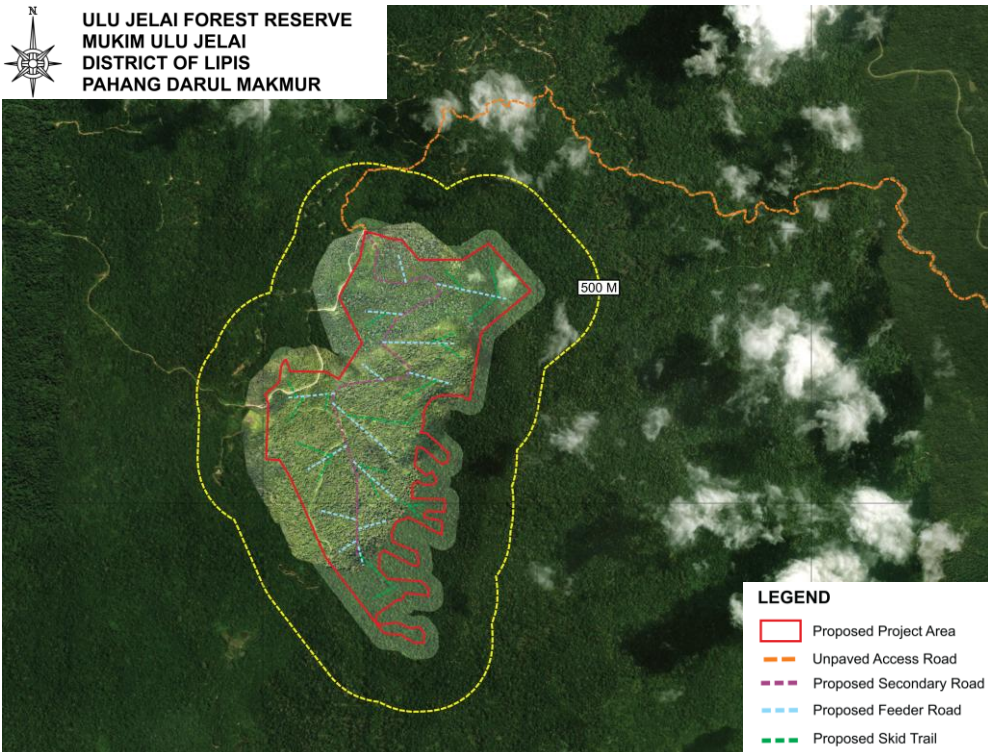
PROJECT BACKGROUND

This land has been approved by Department of Forestry (DOF) Negeri Pahang through a letter with a reference number: PHN. PHG. (S) 8-84/0389/05 SJ.224 (12) on 4th October 2024 to Barisan Adab Sdn. Bhd. with an acreage of 253.19 Hectares (±625.63 acres) on parts of compartment 216, 217 & 218 in Ulu Jelai Forest Reserve, Mukim Ulu Jelai, District Lipis, Pahang Darul Makmur. The Project Proponent for this proposed forest plantation development is Barisan Adab Sdn. Bhd. Barisan Adab Sdn. Bhd. will be responsible to undertake site preparation and forest plantation development at this area.

The concept of this Project is to develop the forest into forest plantation using high productivity plantation system. The Project implementation will begin with site preparation activities followed by planting of cover crops, lining and planting of *Timber Latex Clone* (TLC).

The area will be converted to forest plantation soon after the site preparation activity done. Existing natural vegetation including shrub and bushes will be preserved. Then, maintenance of the plantation such as weeding, watering and others will be carried out. The project will be implemented according into two (2) blocks and five (5) sub-block to minimize land disturbance and avoid planting at the seasonal stream area.

Kampung Tapar is the sub-settlement of Kampung Chegar Perah which is located within 4.5 km radius from the proposed Project area. Meanwhile, FELCRA Sungai Temau and FELDA Chegar Perah 1 & 2 are located within 7 km and 10 km radius to the east from the proposed Project area respectively. Kampung Chegar Perah (sub-settlement: Kampung Empau and Kampung Tapar) and Kampung Orang Asli Paya Keladi (sub-settlement: Kampung Orang Asli Sungai Kepong) are located within 7.5 km and 8 km to the southeast from the proposed Project area. Besides that, a Keretapi Tanah Melayu (KTM) railway line is located approximately 4.75 km to the southeast of the proposed project area.



Existing Landuse

Nearest settlement :-

Kampung Tapar (4.5 km, southeast)

FELCRA Sungai Temau & FELDA Chegar Perah 1 & 2 (7 km and 10 km, east)

Kampung Chegar Perah (sub-settlement: Kampung Empau and Kampung Tapar) and KOA Paya Keladi (sub settlement: KOA Sungai Kepong (7.5 km and 8 km, southeast)

Keretapi Tanah Melayu (KTM) railway line (4.75 km, southeast)

EXISTING ENVIRONMENT



Topography

- Located within a flat to very steep area with elevations ranging from 120 m above Mean Sea Level (MSL) to the highest of 370 m.
- Topographically, most of the proposed Project area (36.43%) is considered as hilly area with slope gradients ranging between 12°-20°. About 3.23% of the proposed Project area ranging between 25°-35° and approximately 0.08% of the proposed Project area is considered as very steep area (>35°).



Geology – Permian Triassic

Mineral – Gold, Mercury and Iron (Metallic Mineral)



Soil

Tanah Curam (Steepland) and Durian-Muchong-Bungor

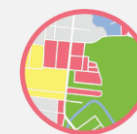


Hydrology

Flowing into Sungai Ciniau, and Sungai Tanum, then eventually to main river Sungai Jelai.

Water Intake

Bukit Betong WTP located in Sungai Jelai (37.366 km southeastern, downstream), Sungai Temau WTP located in Sungai Temau (5.306 km, eastern) and Sungai Jelai WTP located in Sungai Jelai (61.20 km, southeastern, downstream)



Meteorology

Ladang Felda Kechau 06 and Batu Embun Station

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PROJECT ACTIVITIES

PLANNING

- Soil & Topography Study;
- Schedule of Works;
- Environmental baseline studies; and
- Environmental Impact Assessment.

DEVELOPMENT

- Boundary demarcation and positioning;
- Road Construction/ Main drainage;
- Construction of Sediment Trap;
- Establishment of Site Office and Worker's Quarters;
- Terracing
- Biomass Management; and
- Planting Cover Crop.

OPERATION

- Nursery Establishment and Maintenance;
- Construction of Animal Trench; and
- Field Establishment (Lining, Holing and Planting of Seedling)

MAINTENANCE AND HARVESTING

- Weeding and Manuring;
- Fertilizer Application;
- Water Management / Conservation;
- Pest Disease and Weed Control;
- Pruning and Thinning;
- Harvesting and Post-Harvest Field Maintenance; and
- Replanting

ABANDONMENT

- Removal of structure and facilities; and
- Revegetation on the disturbed land.

IMPACT ASSESSMENT & MITIGATION MEASURES

POTENTIAL IMPACT

PROPOSED POLLUTION PREVENTION AND MITIGATION MEASURES



**Water Pollution/
Sedimentation
and Soil Erosion**



- 1) Limit the work area to the minimum and expedite work during dry season;
- 2) Installation of Best Management Practices (BMPs) before the development started;
- 3) Carry out regular maintenance on the sediment trap;
- 4) Maintain bund and drainage in place within the proposed Project area
- 5) Monitor the water quality at the sediment trap discharge from the Project area
- 6) Carry out water quality monitoring programme.
- 7) Retain riparian buffer zones
- 8) Installation of rain gauge
- 9) Scheduling development by phases



Noise Level



- 1) The machinery used should also be properly checked and maintained at optimum operating conditions
- 2) Any complaints from nearby residents should be immediately attended to and actions taken
- 3) Regulate the number of external and internal vehicle trips per day
- 4) Carry out ambient noise monitoring programme
- 5) Provide workers with earplugs or earmuffs
- 6) Have work shifts for the workers
- 7) Carry out regular audiometric test on the workers



Dust Pollution



- 1) Frequent spraying of water on the exposed surface especially during dry seasons
- 2) Implement all vehicles to go through the washing bay before exiting the site
- 3) Traffic controls such as speed limits and traffic volume restrictions
- 4) Vehicles transporting construction material should be covered properly with tarpaulin
- 5) The burning of wastes is prohibited
- 6) Proper maintenance of vehicle
- 7) Carry out ambient air monitoring programme



Terrestrial Ecology



- 1) Collaboration with Jabatan Perhilitan when necessary
- 2) Ensure personnel handling environmental and wildlife management is appointed.
- 3) Engage with the locals who have field knowledge and experience
- 4) No feeding of the wildlife
- 5) Hunting, poaching, disturbing, capturing, destroying, confining and/ or breeding of animals are prohibited



Waste Generation



- 1) No open burning
- 2) Adequate disposal bin prepared on site
- 3) Proper disposal at approved dump site
- 4) Proper scheduled waste storage area
- 5) Workers shall be provided with adequate sanitation facilities
- 6) Regular maintenance of septic tank
- 7) Every worker shall be supply with appropriate apparels and apparatus during spraying of pesticides and fertilizers application



Safety and Health



- 1) Observe safety aspects pertaining to the condition of the proposed Project area
- 2) Follow the emergency response plan formulated
- 3) Proper housekeeping on-site
- 4) Foreign workers must undergo a medical screening through FOMEMA
- 5) Ensure no retention in the empty containers resulting the breeding of mosquitoes
- 6) Employees are asked to wear long sleeved shirts with long pants



Socio Economy



- 1) Given the first opportunity to local community when suitable employment positions arise
- 2) Road safety and dust mitigation measures must be implemented
- 3) Project Proponent should fix any road damage causes by their heavy vehicle
- 4) Movement of equipment and machinery shall be planned and closely monitored



Traffic

- 1) Material transportation and heavy vehicles ingress and egress the site to be scheduled away from the peak hours;
- 2) Speed of vehicles will be restricted to maximum 30 km/hr (or other designated speed limits) to reduce the impacts of dust dispersion and safety first;
- 3) Safety measures for loading and transporting of heavy machinery construction materials and raw materials will be observed at all time;
- 4) Transportation vehicles used will be well maintained and the drivers licensed and competent;
- 5) Good planning and co-ordination will reduce the frequency of delivery and therefore the number of trips; and
- 6) Install signage to indicate that slow moving heavy vehicles are travelling on the public roads near the junctions to the proposed Project area.
- 7) Barisan Adab Sdn. Bhd. shall be fully responsible to ensure that the maximum load of heavy vehicles leaving the site must comply with the permissible weight limit by JKR.



Biomass Management

1. Felled trees must be cut into small pieces, piled in between planting rows, and left to rot or being use for stacking to act to hold the soil and reduce erosion.
2. The remaining non-marketable trees are useful as building material for temporary bridges or for a foundation in road development.
3. Biomass waste can be packed to be use as erosion and slope protection. Apart from that, biomass waste also can be left to mulch on site and applied over the bared and exposed area.
4. Biomass waste will be sold to the factory that process the waste to chipping board as a material for furniture.

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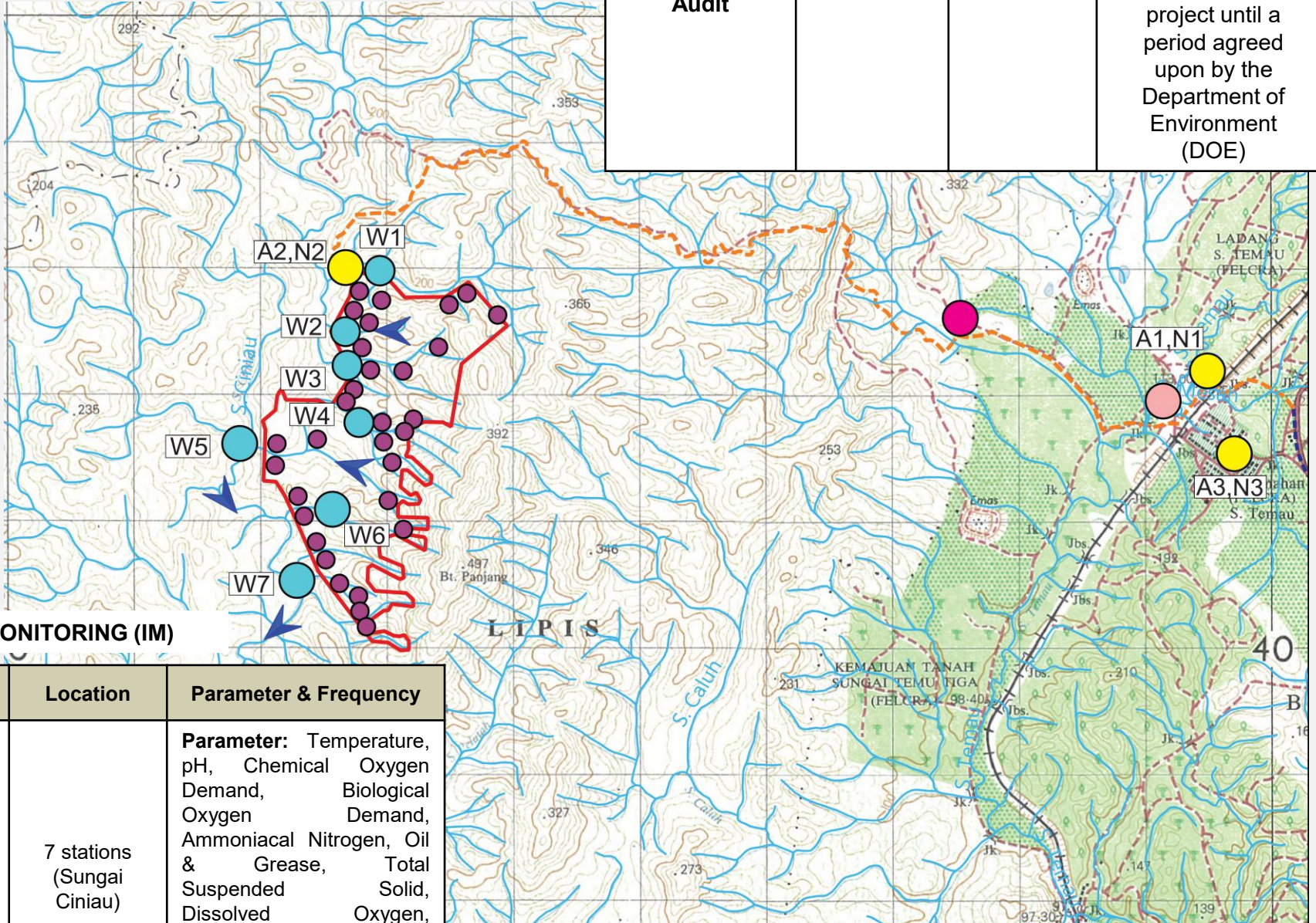
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PERFORMANCE MONITORING (PM)

Components	Parameter	Location	Frequency
Sediment Trap	Silt Control (Total Suspended Solid, Turbidity)	Refer Appendix 5-1: LDPM2	Monthly
Access Road	Dust control	-	Quarterly
Earth drain with check dam	Sediment level		
River Buffer	Performance		
Turfing and Hydroseeding	Structure and Performance		
Waterway Crossing (Culvert)			

COMPLIANCE MONITORING (CM)

Components	Parameter	Location	Frequency
Sediment Trap	Total Suspended Solid Turbidity	Refer Appendix 5-1: LDPM2	Monthly, and within 24 hours after storm event of ≥12.5mm
Site Inspection by CePEOEIA, CISEC / CESSWI	-	-	Quarterly, and within 24 hours after storm event of ≥12.5mm
Environmental Audit	-	-	Every quarter starts from the commencement of land disturbance for this project until a period agreed upon by the Department of Environment (DOE)



IMPACT MONITORING (IM)

Components	Location	Parameter & Frequency
River Water Quality	7 stations (Sungai Ciniau)	Parameter: Temperature, pH, Chemical Oxygen Demand, Biological Oxygen Demand, Ammoniacal Nitrogen, Oil & Grease, Total Suspended Solid, Dissolved Oxygen, Phosphorus, Nitrate and Total Coliform Frequency: Monthly
Ambient Air Quality	3 stations (Project Boundary, FELCRA Sungai Temau and Near railway tracks)	Parameter: PM ₁₀ Frequency: Monthly
Noise Level		Parameter: Leq, Lmax, L ₁₀ , L ₉₀ Frequency: Quarterly

LEGEND

- [Red Outline] Proposed Project Area
- [Blue Arrow] River Flow
- [Orange Dashed] Unpaved Access Road
- [Blue Dashed] Paved Access Road
- [Red Dotted] Buildings in Rural Areas
- [Brown Dashed] Embankment
- [Red Dashed] Motorable Track
- [Black Dashed] Railways
- [Green Dotted] Grass
- [Grey Dotted] Mukim
- [Red Dashed] Single Highway
- [Green Dotted] Forest (Reserve etc.)
- [Green Dotted] Rubber
- [Blue Dotted] River
- [Green Dotted] Sundry Tree Cultivation
- [Green Dotted] Belukar, Riung and Hill Padi
- [Brown Circle] Contour
- [Red Circle] Cliff, Precipice
- [Green Circle] Rock Outcrop
- [Green Circle] Oil Palm
- [Blue Circle] Water Quality Monitoring Point (W)
- [Yellow Circle] Sungai Temau Water Treatment Plant
- [Purple Circle] Blackstone Mining Sdn. Bhd.
- [Yellow Circle] Ambient Air and Noise Monitoring Point (A, N)
- [Purple Circle] Sediment Trap Monitoring Point (ST)