

# EXECUTIVE SUMMARY

First Schedule - Environmental Impact Assessment (EIA)

## PROJECT TITLE

“Proposed Forest Plantation Development (Eucalyptus Sp. And Other Species) in Lot PT7, on a Part of the Sultanate Land in the Gazette Plan PW1704 (Block 1), with an area 497 Ha (1228.11 Ac) at Hutan Simpan Kekal Perias, Mukim Balar, Daerah Betis, Jajahan Kecil Lojing, Kelantan Darul Naim”

## PROJECT PROPONENT



**BIS LUMBER INDUSTRIES**  
(202103341834) (KT0509822-P)  
Lot 2979, Gong Medang Industrial Area,  
23000, Kuala Besut, Terengganu.

Contact Person : Saiful Nizam Bin Mansor  
Designation : Director  
Tel. : 017-981 2811  
Email : bislumberindustries@gmail.com

## ENVIRONMENTAL CONSULTANT



**NILAIMAS SERVICES**  
No. 17, Jalan Equine 10D, Taman Equine , 43300 Seri  
Kembangan, Selangor.

Contact Person :  
Dato' Seri Ts. Hj. Mohd Nawahidudin Bin Mahamad Isa  
Designation : Managing Director  
Tel. : 03-8940 9959  
Fax : 03-8940 9958

## LEGISLATIVE REQUIREMENT

According to the subsection 34(A) of the Environmental Quality (Prescribed Activities) (Environmental Impacts Assessment) Order, 2015 the project falls under:

**First Schedule - Activity 5 – Forestry; 5 (e): Development of Planted Forest Covering an Area of 100 hectares or more but less than 500 hectares.**

## STATEMENT OF NEEDS

- To meet the high and growing demand for wood in Malaysia;
- To increase the productivity of degraded forest land;
- To eradicate rural poverty through the implementation of social forest plantation programs;
- To reduce excessive foreign exchange losses by increasing the production of raw materials for the timber industry;
- To introduce timber plantations which with their higher productivity will reduce pressure on PPE, so that they can be managed sustainably;
- and
- To align with existing strategic plans and policies.

Pengambilan\_mimr : PROPOSED FOREST PLANTATION DEVE  
Spd\_Luar\_HSK : HSK Perias  
Kompt\_HSK : Perias  
ZONING\_RTJGM\_2020\_Feb\_2022 : Hutan  
SYIT\_KEL : D20-CII

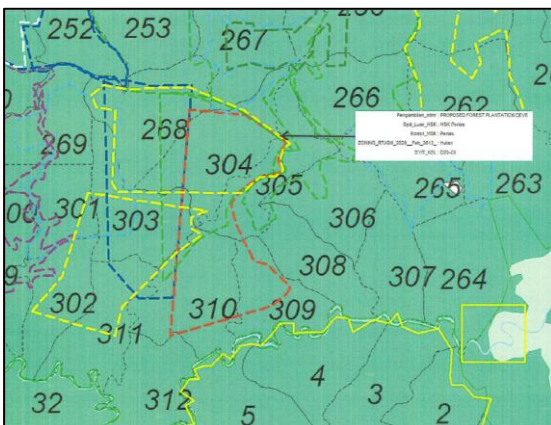
## COMPATIBILITY WITH LOCAL PLANNING STRATEGIES

By referring to PLANMalaysia@Kelantan (Ref. No: JPBD/PP/T/185/6/110/Jld 31) stated that the development plans of the proposed Project area are as follows

- Rancangan Tempatan Jajahan Gua Musang 2020 (Extension of the period until the year 2025) (Gazette No.: 383 dated on 15<sup>th</sup> April 2021 ), in which the Project area are situated within;
  - i. Hutan Simpan Kekal (HSK) Perias (Gazetted Date: 1<sup>st</sup> Mac 1990); and
  - ii. Forest land use zone in Blok Perancangan (BP) 4: Lojing, Blok Perancangan Kecil (BPK) 4.5: Hutan Simpan Gunung Stong Selatan & Sungai Betis.

Hence, the permitted activities within Project Site are:

- **Class VIII: Forestry.**

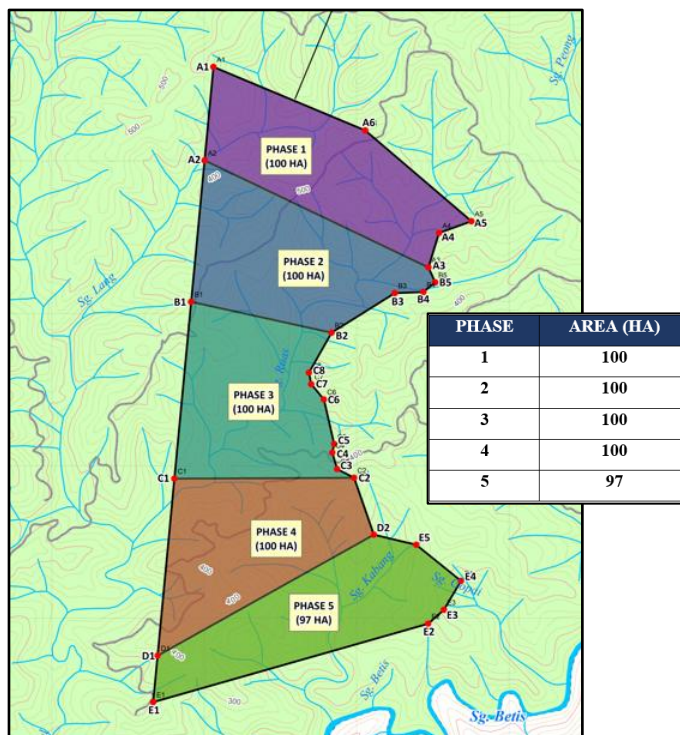
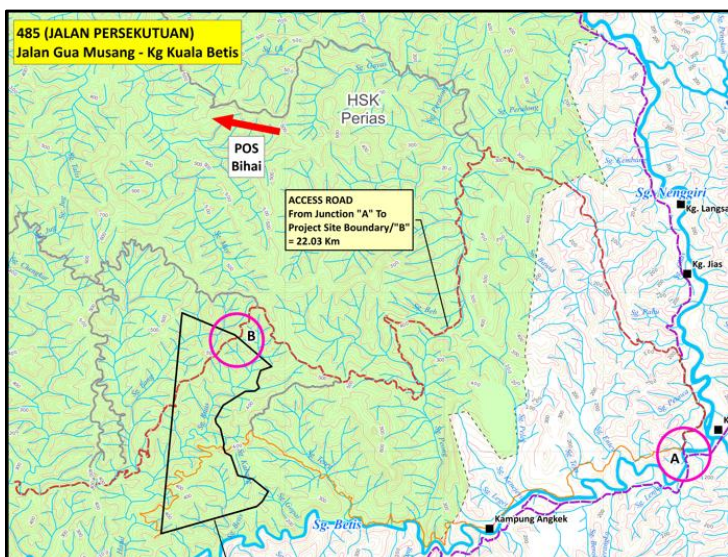


**PROJECT LOCATION AND ACCESS**

**Bis Lumber Industries** as the Project proponent intends to carry out a forest plantation (**Eucalyptus sp. and other species**) activity on part of **PT7, on the Sultanate Land in the PW1704 (Block 1) at Hutan Simpan Kekal Perias, Mukim Balar, Daerah Betis, Jajahan Kecil Lojing, Kelantan Darul Naim** with total area of **497 hectares (1228.11 Acres)**.

The plantation site can be accessed from:

- 484 (Jalan Persekutuan) Jalan Gua Musang – Kg Kuala Betis before traversing approximately 22.03km the existing secondary road to the project entrance.



**PROJECT CONCEPT AND PHASE**

The undesirable consequences of the proposed project in terms of probable interference to the ecosystem could be minimized through adherence by the company to relevant instructions by the concerned authorities:

- Site clearing (clear felling method) will be carried out before plantation of **Eucalyptus** tree.
- The Project area will be left for about three (3) months for cover crops process to maintain soil fertility and to minimize environmental impacts after site clearing before re-planting the **Eucalyptus** saplings.
- Site preparation and planting operations will be carried out on manageable Planting Blocks (PBs). Site preparation / site clearing in Phase 2 shall be started after plantation of **Eucalyptus** tree in Phase 1 is completed and so on. The idea is to prevent a huge land area being exposed in long period of time thus reducing the generation of surface runoff on-site.
- Phase by phase development :

From Phase 1 to Phase 5, the Project proponent must be notified to **Department of Environment (DOE) Kelantan State** by submitting a letter notification to proceed with the development / site clearing to Phase 2 and then for each development next phases. Phasing direction based on the riparian zone of stream that has been reserved for wildlife movement within the project site area.

- For area with slope of above 30°, no operation will be carried out. The area will be left untouched. For area with slope less than 30°, clear felling and plantation will be carried out.

**ECOLOGY (BIOLOGICAL ENVIRONMENT)**

**Central Forest Spine (CFS)** The site is located inside of the Central Forest Spine (CFS) Forest Complex. The shortest boundary to boundary distance from the project site is as follows:

- a. 14.9 km to one of the CFS linkages, namely D-Primary Linkage 1 (D-PL1) (HS Lojing – HS Sungai Brok – HS Sungai Betis).



**Flora / Vegetation Composition**

The majority of this region’s vegetation is still forest, however certain sections have experienced changes in vegetation as a result of earlier logging and exploration activity. The varieties of vegetation and the process of natural forest growth have been significantly disturbed by all these anthropogenic activities. Several streams area sighted inside the Project site as shown in photo above.



Pig-tailed Macaque



Sumatran Serow



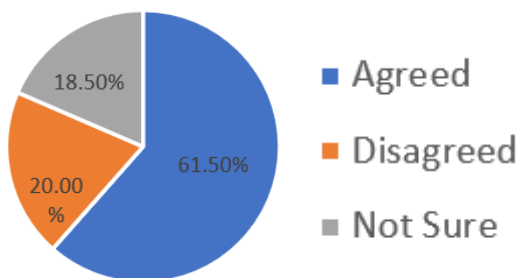
Malay Civet

**Fauna / Wildlife Composition**

Only mammals species like Pig-tailed Macaque, Squirrel, Malayan Porcupine, Malay Civet, Binturong, Sumatran Serow and Malaysian Field Cat were discovered through field observation, particularly using camera traps. **All camera traps successfully recorded wildlife.**

**SOCIO-ECONOMIC STUDY**

**Acceptances Toward Project**

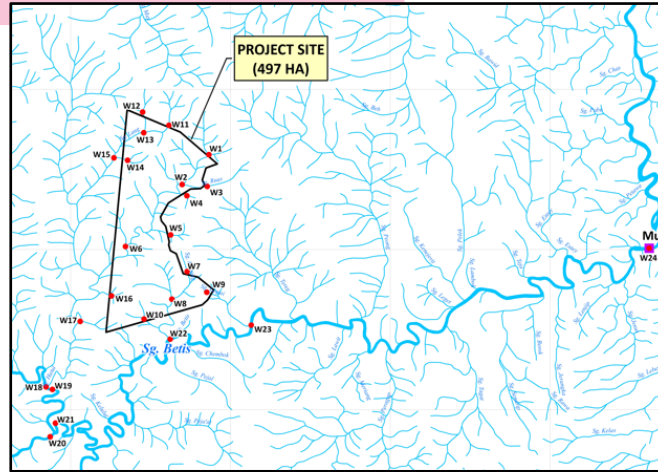


The survey findings reveal that 61.50% of participants are support for the project, while 20% are not agree, and 18.50% are undecided. The minority 20% respondents did not agree to the development due to:

- Concern for environment; and
- Fearing there would be cases of increasing wild animal disturbance in the future.

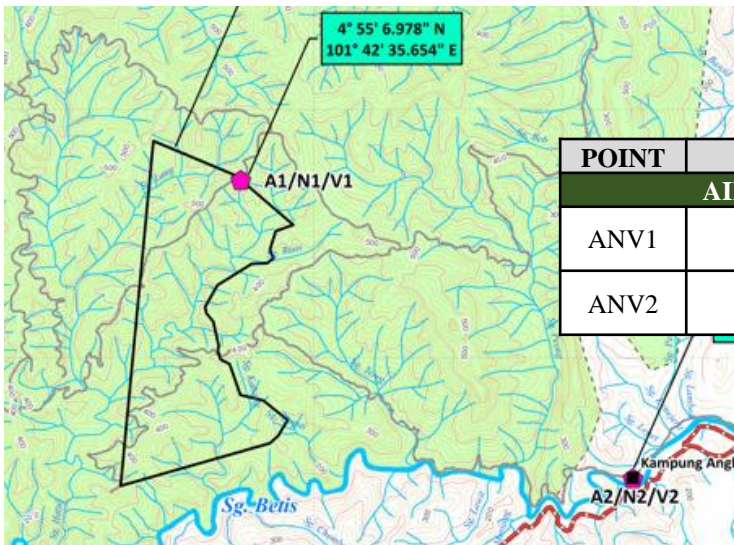
The same sentiments of concern were also shared by most respondents agreed to the proposed project.

**BASELINE WATER MONITORING STATIONS**



POINT	COORDINATE	DESCRIPTION
<b>WATER</b>		
W1	4° 54' 54.907" N 101° 42' 51.211" E	Outside Project Site
W2	4° 54' 36.681" N 101° 42' 34.902" E	Within Project Site
W3	4° 54' 35.566" N 101° 42' 50.205" E	Outside Project Site
W4	4° 54' 29.783" N 101° 42' 37.819" E	Outside Project Site
W5	4° 54' 5.904" N 101° 42' 28.031" E	Outside Project Site
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W17	4° 53' 28.575" N 101° 41' 52.025" E	Outside Project Site
W18	4° 52' 33.017" N 101° 41' 12.308" E	Outside Project Site
W19	4° 52' 31.477" N 101° 41' 16.228" E	Outside Project Site
W20	4° 52' 2.519" N 101° 41' 14.900" E	Outside Project Site
W21	4° 52' 10.883" N 101° 41' 18.099" E	Outside Project Site
W22	4° 53' 2.356" N 101° 42' 27.916" E	Outside Project Site
W23	4° 53' 10.945" N 101° 43' 17.234" E	Outside Project Site
W24	4° 53' 58.487" N 101° 47' 19.587" E	Outside Project Site

**BASELINE AIR, NOISE AND VIBRATION MONITORING**



POINT	COORDINATE	DESCRIPTION
<b>AIR, NOISE, VIBRATION AND GAS STATIONS</b>		
ANV1	4° 55' 6.978" N 101° 42' 35.654" E	Within Project Site
ANV2	4° 53' 9.961" N 101° 45' 9.831" E	Outside Project Site (Kg. Angkek)

**ENVIRONMENTAL MONITORING PROGRAMME**

ENVIRONMENTAL MONITORING	COMPONENTS	PARAMETER / PERFORMANCE MONITORING STATUS	RECOMMENDED LIMITS	MONITORING LOCATIONS	FREQUENCIES	
<b>Performance Monitoring (PM)</b>	Sediment Basin	Silt Marker	2/3 of the height of silt marker	The locations referred to the LD-P2M2 attachment	After 12.5 mm of heavy rainfall	
	Check Dam				Weekly	
	Wash Trough	Structure	-		After 12.5 mm of heavy rainfall	
	Temporary or Permanent Waterway Crossing (culvert / bridge)	Structure	-	Upstream, Midstream and Downstream	Quarterly	
	Riparian status	Visual (photos)	-			
<b>Compliance Monitoring (CM)</b>	Air Quality	PM <sub>10</sub>	100 µg/m <sup>3</sup>	<b>Two (2)</b> locations at nearest sensitive receptors	Quarterly	
	Noise	L <sub>Aeq</sub>	Day: 55 dBA Night: 50 dBA			
	Vibration	Vertical Vibration Peak Velocity	Day: 0.1 mm/s Night: 0.1 mm/s			
	Water Quality (Discharge from Sediment Basin)	Total Suspended Solid (TSS)		50 mg/L	The locations referred to the LD-P2M2 attachment	After 12.5 mm of heavy rainfall
Turbidity			50 NTU			
<b>Impact Monitoring (IM)</b>	Air Pollution	PM <sub>10</sub>	New Malaysian Ambient Air Quality Standard	<b>Two (2)</b> locations at nearest sensitive receptors	Quarterly	
	Noise Level	L <sub>Aeq</sub> , L <sub>max</sub> and L <sub>10</sub>	Maximum Permissible Percentile (L <sub>10</sub> and L <sub>max</sub> ) of Construction, Maintenance and Demolition Works by Receiving Land Use		Quarterly	
	Water Quality	pH	National Water Quality Standard		<b>Twenty-four (24)</b> locations	Monthly
		Biochemical Oxygen Demand (BOD)				
		Chemical Oxygen Demand (COD)				
		Dissolved Oxygen (DO)				
		Oil & grease				
		Total Suspended Solids (TSS)				
Ammoniacal Nitrogen (NH <sub>3</sub> -N)						
Turbidity						
E. coli						

## TAJUK PROJEK

"Cadangan Pembangunan Ladang Hutan (Eucalyptus Sp. dan Spesies Lain) di Lot PT7, di sebahagian Tanah Kesultanan dalam Pelan Warta PW1704 (Blok 1), dengan keluasan 497 hektar (1228.11 ekar) di Hutan Simpan Kekal Perias, Mukim Balar, Daerah Betis, Jajahan Kecil Lojing, Kelantan Darul Naim."

## PENGERAK PROJEK



**BIS LUMBER INDUSTRIES**  
(202103341834) (KT0509822-P)  
Lot 2979, Gong Medang Industrial Area,  
23000, Kuala Besut, Terengganu.

Pihak untuk dihubungi: Saiful Nizam Bin Mansor  
Jawatan : Director  
Tel. : 017-981 2811  
Email : bislumberindustries@gmail.com

## KONSULTAN ALAM SEKITAR



**NILAIMAS SERVICES**  
No. 17, Jalan Equine 10D, Taman Equine , 43300  
Seri Kembangan, Selangor.

Pihak untuk dihubungi :  
Dato' Seri Ts. Hj. Mohd Nawahidudin Bin Mahamad Isa  
Jawatan : Managing Director  
Tel. : 03-8940 9959  
Fax : 03-8940 9958

## KEPERLUAN PERUNDANGAN

Mengikut subseksyen 34A (1) Perintah Kualiti Alam Sekeliling (Aktiviti Ditetapkan) (Penilaian Kesan Alam Sekitar), 2015 projek itu terletak di bawah:

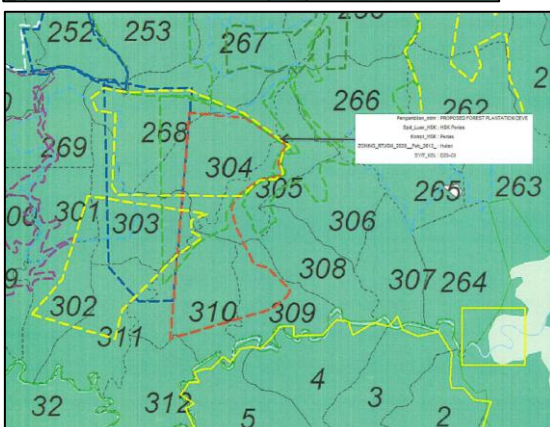
**Jadual Pertama - Aktiviti 5 - Perhutanan: Pembangunan Hutan Tanam Meliputi Keluasan 100 hektar atau lebih tetapi kurang daripada 500 hektar.**

## PERNYATAAN KEPERLUAN

- Untuk memenuhi permintaan kayu yang semakin meningkat di Malaysia;
- Untuk meningkatkan produktiviti tanah hutan yang terdegradasi;
- Untuk membasmikan kemiskinan luar bandar melalui pelaksanaan program perladangan hutan sosial;
- Untuk mengurangkan kerugian pertukaran asing yang berlebihan dengan meningkatkan pengeluaran bahan mentah untuk industri perkayuan;
- Untuk memperkenalkan ladang kayu yang dengan produktivitinya yang lebih tinggi akan mengurangkan tekanan ke atas PFE, supaya ia boleh diuruskan secara mampan; dan
- Keseserasian dengan strategi/dasar perancangan.

## KEPERLUAN DENGAN STRATEGI PERANCANGAN TEMPATAN

Pengambilan\_mimr : PROPOSED FOREST PLANTATION DEVELOPMENT  
Spd\_Luar\_HSK : HSK Perias  
Kompt\_HSK : Perias  
ZONING\_RTJGM\_2020\_Feb\_2012 : Hutan  
SYIT\_KEL : D20-CII



Dengan merujuk kepada PLANMalaysia@Kelantan (No. Ruj: JPBD/PP/T/185/6/110/Jld 31) menyatakan bahawa rancangan pembangunan kawasan Projek yang dicadangkan adalah seperti berikut.

- Rancangan Tempatan Jajahan Gua Musang 2020 (Pelanjutan tempoh sehingga tahun 2025) (No. Warta: 383 bertarikh 15 April 2021) di mana tapak cadangan di dalam :
  - Hutan Simpanan Kekal Perias (Tarikh Warta: 1 Mac 1990);
  - Zon guna tanah Hutan di Blok Perancangan (BP) 4: Lojing, Blok Perancangan Kecil (BPK) 4.5: Hutan Simpan Gunung Stong Selatan & Sungai Betis.

Oleh itu, aktiviti yang dibenarkan dalam tapak projek adalah:

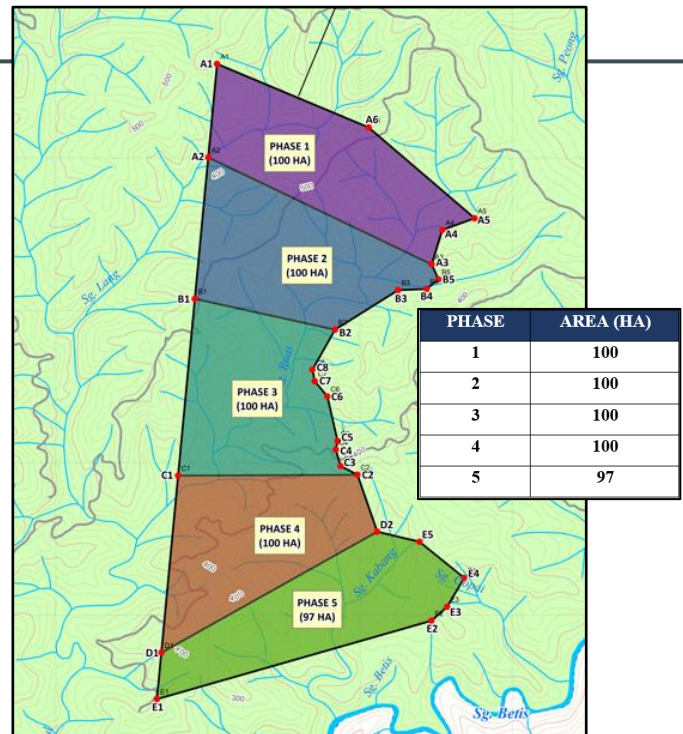
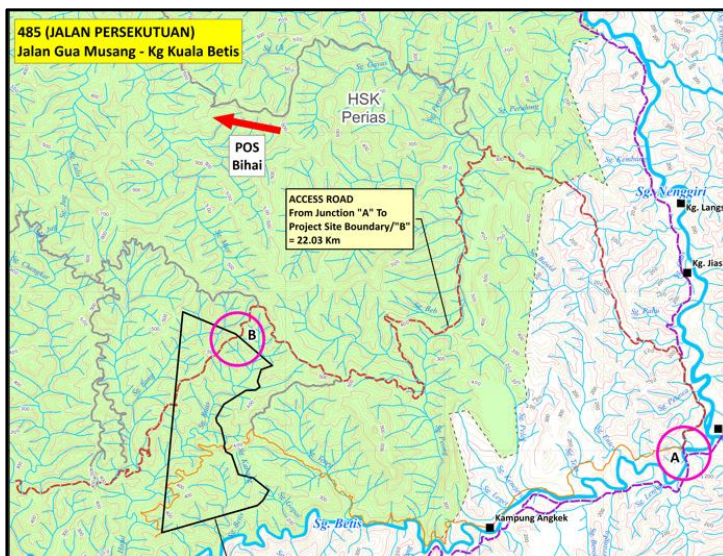
- Kelas VIII: Perhutanan.**

## LOKASI DAN AKSES PROJEK

**Bis Lumber Industries** sebagai pihak pelaksana projek bercadang untuk menjalankan aktiviti ladang hutan (*Eucalyptus sp. dan spesies lain*) di sebahagian Lot PT7, di atas Tanah Kesultanan dalam PW1704 (Blok 1) di **Hutan Simpan Kekal Perias, Mukim Balar, Daerah Betis, Jajahan Kecil Lojing, Kelantan Darul Naim** dengan jumlah keluasan **497 hektar (1228.11 ekar)**.

Tapak ladang ini boleh diakses melalui:

- **Jalan Persekutuan 484 (Jalan Gua Musang – Kampung Kuala Betis)** sebelum melalui kira-kira **22.03 km jalan sekunder sedia ada** menuju ke pintu masuk projek.



## FASA DAN KONSEP PROJEK

Akibat yang tidak diinginkan daripada projek yang dicadangkan dari segi kemungkinan gangguan terhadap ekosistem boleh diminimumkan melalui pematuhan oleh syarikat kepada arahan yang berkaitan oleh pihak berkuasa yang berkenaan:

- Pembersihan tapak (kaedah penebangan jelas) akan dijalankan sebelum penanaman pokok **Eucalyptus**.
- Kawasan Projek akan dibiarkan selama kira-kira tiga (3) bulan untuk proses tanaman penutup bagi mengekalkan kesuburan tanah dan untuk meminimumkan kesan alam sekitar selepas pembersihan tapak sebelum menanam semula anak pokok Kayu Putih.
- Penyediaan tapak dan operasi penanaman akan dijalankan pada Blok Tanam (PB) yang boleh diurus. Penyediaan tapak / pembersihan tapak dalam Fasa 2 hendaklah dimulakan selepas penanaman pokok **Eucalyptus** dalam Fasa 1 selesai dan seterusnya. Ideanya adalah untuk mengelakkan kawasan tanah yang besar terdedah dalam jangka masa yang lama sekali gus mengurangkan penjaan air larian permukaan di tapak.
- Pembangunan fasa demi fasa:  
Dari Fasa 1 hingga Fasa 5, pencadang Projek hendaklah dimaklumkan kepada **Jabatan Alam Sekitar (JAS) Negeri Kelantan** dengan mengemukakan surat maklumat untuk meneruskan pembangunan / pembersihan tapak ke Fasa 2 dan seterusnya bagi setiap pembangunan fasa seterusnya. Arah berperingkat berdasarkan zon riparian sungai yang telah dikhaskan untuk pergerakan hidupan liar di dalam kawasan tapak projek.
- Bagi kawasan dengan kecerunan melebihi 30°, tiada operasi akan dijalankan. Kawasan itu akan dibiarkan tanpa disentuh. Bagi kawasan yang mempunyai kecerunan kurang daripada 30°, penebangan dan penanaman yang jelas akan dijalankan.

**EKOLOGI (PERSEKITARAN BIOLOGI)**

**Central Forest Spine (CFS)**

Tapak projek terletak di dalam Kompleks Hutan Central Forest Spine (CFS). Jarak terpendek dari sempadan tapak projek ke rangkaian CFS adalah seperti berikut:

- 14.9 km ke salah satu pautan CFS, iaitu **D-Pautan Utama 1 (D-PL1)** (HS Lojing – HS Sungai Brok – HS Sungai Betis).



**Komposisi Flora / Tumbuhan**

Kebanyakan kawasan dalam wilayah ini masih diliputi oleh hutan, namun terdapat beberapa bahagian yang telah mengalami perubahan litupan vegetasi akibat aktiviti pembalakan dan penerokaan terdahulu. Kepelbagaian jenis vegetasi serta proses pertumbuhan semula hutan semula jadi telah terjejas dengan ketara akibat aktiviti antropogenik ini. Beberapa aliran sungai turut dikenal pasti di dalam kawasan tapak projek seperti yang ditunjukkan dalam foto di atas.



**Berok**



**Kambing Gurun**



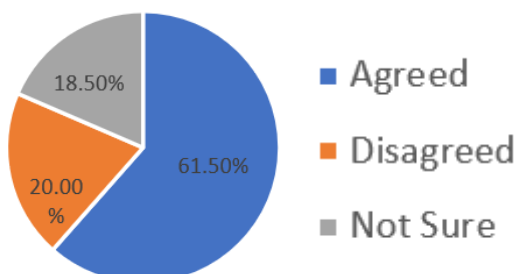
**Musang Tenggalung**

**Komposisi Fauna / Hidupan Liar**

Hanya spesies mamalia seperti Berok (*Pig-tailed Macaque*), Tupai (*Squirrel*), Landak Raya (Malayan Porcupine), Musang Tenggalung (Malay Civet), Binturong (*Binturong*), Kambing Gurun (Sumatran Serow), Tikus Belukar (Malaysian Field Cat) yang ditemui melalui pemerhatian lapangan, terutamanya menggunakan **perangkap kamera**. Semua perangkap kamera berjaya merakam hidupan liar.

**KAJIAN SOSIO-EKONOMI**

**Acceptances Toward Project**

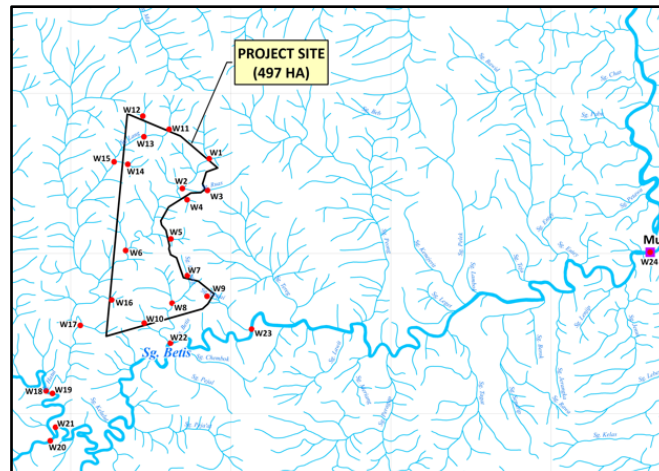


Daripada hasil tinjauan menunjukkan bahawa 61.50% daripada responden menyokong projek ini, manakala 20% tidak bersetuju, dan 18.50% lagi tidak pasti.

Minoriti 20% responden tidak bersetuju dengan perkembangan tersebut kerana:

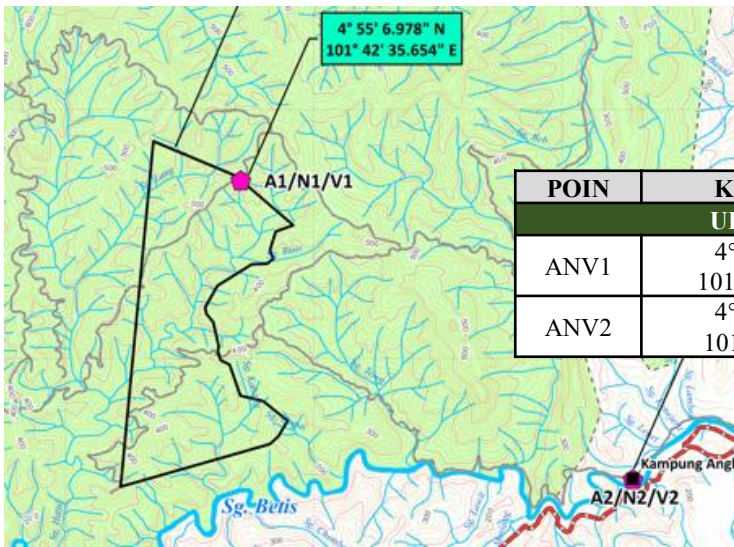
- Keprihatinan terhadap alam sekitar; dan
- Khuatir ada kes gangguan haiwan liar yang semakin meningkat pada masa hadapan.

Sentimen kebimbangan yang sama turut dikongsi oleh kebanyakan responden bersetuju dengan projek yang dicadangkan.

STESEN PEMANTAUAN AIR *BASELINE*

POIN	KOORDINAT	PENERANGAN
<b>AIR</b>		
W1	4° 54' 54.907" N 101° 42' 51.211" E	<i>Outside Project Site</i>
W2	4° 54' 36.681" N 101° 42' 34.902" E	<i>Within Project Site</i>
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**PEMANTAUAN UDARA, BUNYI BISING DAN GETARAN *BASELINE***



POIN	KOORDINAT	PENERANGAN
<b>UDARA, BUNYI BISING DAN GETARAN</b>		
ANV1	4° 55' 6.978" N 101° 42' 35.654" E	<i>Within Project Site</i>
ANV2	4° 53' 9.961" N 101° 45' 9.831" E	<i>Outside Project Site (Kg. Angkek)</i>

**PROGRAM PEMANTAUAN ALAM SEKITAR**

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	Wash Trough	Structure	-		After 12.5 mm of heavy rainfall	
	Temporary or Permanent Waterway Crossing (culvert / bridge)	Structure	-	Upstream, Midstream and Downstream	<i>Quarterly</i>	
	Riparian status	Visual (photos)	-			
<b>Compliance Monitoring (CM)</b>	Air Quality	PM <sub>10</sub>	100 µg/m <sup>3</sup>	Two (2) locations at nearest sensitive receptors	<i>Quarterly</i>	
	Noise	L <sub>Aeq</sub>	Day: 55 dBA Night: 50 dBA			
	Vibration	Vertical Vibration Peak Velocity	Day: 0.1 mm/s Night: 0.1 mm/s	The locations referred to the LD-P2M2 attachment	After 12.5 mm of heavy rainfall	
	Water Quality (Discharge from Sediment Basin)	Total Suspended Solid (TSS)	50 mg/L			
Turbidity		50 NTU				
<b>Impact Monitoring (IM)</b>	Air Pollution	PM <sub>10</sub>	New Malaysian Ambient Air Quality Standard	Two (2) locations at nearest sensitive receptors	<i>Quarterly</i>	
	Noise Level	L <sub>Aeq</sub> , L <sub>max</sub> and L <sub>10</sub>	Maximum Permissible Percentile (L <sub>10</sub> and L <sub>max</sub> ) of Construction, Maintenance and Demolition Works by Receiving Land Use		<i>Quarterly</i>	
	Water Quality	pH	National Water Quality Standard		Twenty-four (24) locations	<i>Monthly</i>
		Biochemical Oxygen Demand (BOD)				
		Chemical Oxygen Demand (COD)				
		Dissolved Oxygen (DO)				
		Oil & grease				
		Total Suspended Solids (TSS)				
		Ammoniacal Nitrogen (NH <sub>3</sub> -N)				
Turbidity						
E. coli						