



EXECUTIVE SUMMARY

— KenEp Consultancy & Services

EXECUTIVE SUMMARY

Proposed Granite Quarry Operation on PT 9732 And Part of PT 9733 With an Area Of 39.728 Hectares (98.170 Acres) In Mukim Lenggeng, District of Seremban, Negeri Sembilan Darul Khusus

PROJECT PROPONENT

Eng Lian Quarry Sdn. Bhd.
(Company No. : 13582-U)

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EIA CONSULTANT

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STATEMENT OF NEED



Source
- Granite



Products

- Aggregates with various size including 10mm, 20mm
- Crusher run
- Quarry waste
- Quarry dust



Demand
- Industries



LEGISLATIVE REQUIREMENT

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

First Schedule

- Prescribed Activity 19: Quarrying of Rock Material

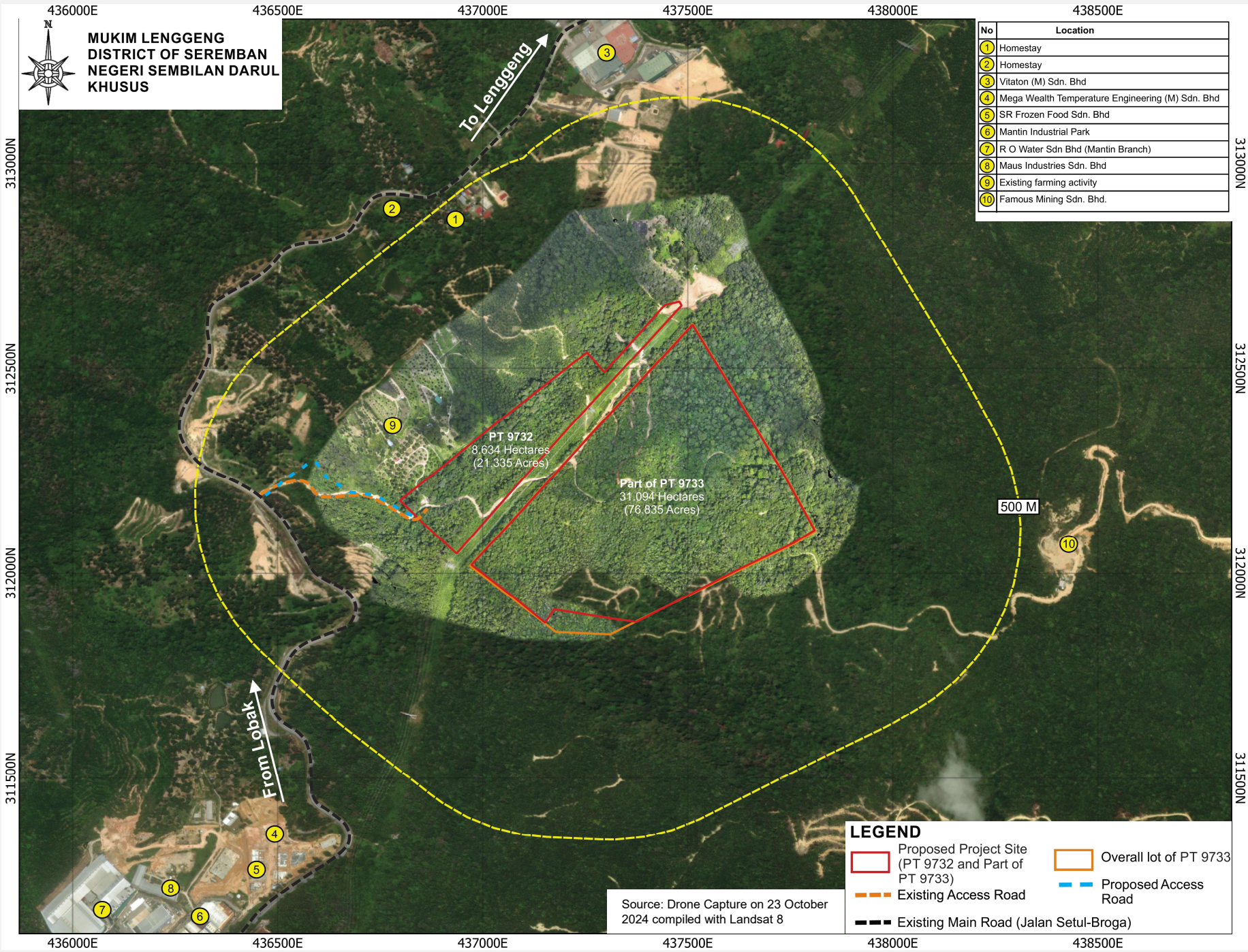
PROJECT LOCATION



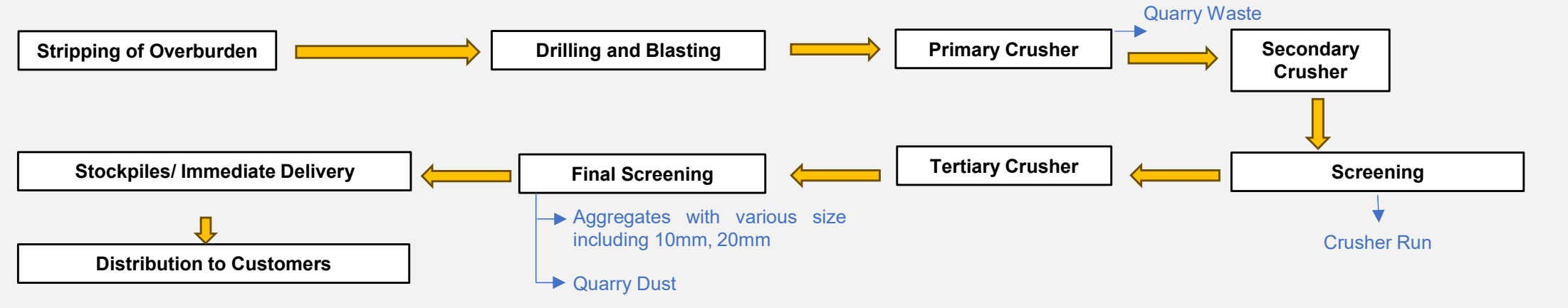
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Accessible via the existing main road, Jalan Mantin–Broga. From there, access continues through the proposed access road, which connects to the existing access roads at Lot 8332, Lot 8334, and Lot 8336.



FLOW CHART OF THE OVERALL QUARRY OPERATION



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EXISTING ENVIRONMENT



Topography

The topography of proposed Project site is hilly area.



Geology

Composed of acid intrusive



Soil

The soil within the proposed Project site falls into *Tanah Curam* (Steepland) category



Hydrology

Runoff Discharge → Sediment Traps → Waterway → Sungai Sompō → Sungai Lenggeng → Sungai Semenyih



Meteorology

- Chemara Res. Tanah Merah Station
- KLIA Sepang Station



Existing Landuse

- Surrounded mostly by forestry and agriculture land
- Nearest Homestay (500m northern)

PROJECT ACTIVITIES

INVESTIGATION

- Project Planning
- Field reconnaissance
- Surveying and mapping
- Site investigation
- Environmental baseline studies
- Technical and financial evaluation

DEVELOPMENT

- Boundary demarcation and positioning
- Mobilization of workforce
- Transport of equipment and supplies
- Site clearing/Logging
- Construction and maintenance of internal roads
- Construction and improvement of watercourses and drainage system
- Installation of crushing plant and other facilities
- Construction of sediment trap
- Managing waste at the project site

PRODUCTION

- Overburden removal
- Drilling
- Blasting
- Breaking
- Excavation
- Hauling
- Crushing
- Stockpiling
- Transportation
- Waste management

ABANDONMENT

- Demobilisation of equipment and machineries onsite
- Waste management on site

POTENTIAL IMPACTS & PROPOSED MITIGATION MEASURES



Water Pollution/Soil Erosion and Sedimentation



Sediment Trap



Cover Crop



Earth Drain



Spillage Kit



Water quality monitoring programme



Noise and Vibration Level



Ear Muffler



Noise Level Monitoring Programme



Ear Plug



No entry signboard during blasting in progress



Handling by certified shotfirer



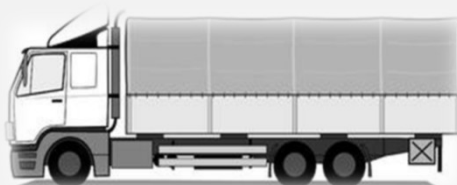
Air Pollution



Air Quality Monitoring Programme



No Open Burning



Vehicles that carry materials out from Project site need to be covered



Water Browser

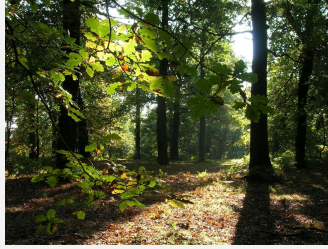
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POTENTIAL IMPACTS & PROPOSED MITIGATION MEASURES



Terrestrial Ecology



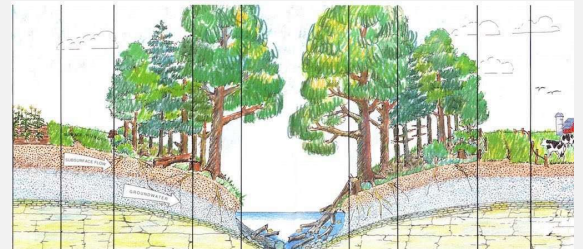
Preservation of Green Area



No Hunting



Contact Jabatan PERHILITAN



Maintaining riparian buffer zone



Waste Generation



Prohibition Of Open Burning



Solid Waste Management



Proper Scheduled Waste Storage Area



Waste Collection



Safety and Health



Implementation of Emergency Response Plan (ERP)



Worker using high visibility vest



Personal Protective Equipment (PPE)



Audiometric Test



Socio-economics



Priority to worker's safety



Hire local workers



Increase the business

PROPOSED ENVIRONMENTAL MONITORING PROGRAM

Compliance monitoring (CM)	Monitoring Parameter	Monitoring Station	Location	Coordinate	Monitoring Frequency	Applicable Standard
Sediment traps and sediment basins -Discharge from sediment traps and sediment basin	TSS Turbidity	ST and SB	Sediment traps and sediment basins within proposed Project site	-	Monthly	Results will be compared with: • DOE's conditions of EIA approval: • TSS: ≤ 50 mg/l • Turbidity: ≤ 250 NTU
Site Inspection by CESSWI	-	-	Project Site	-	Quarterly, and within 24 hours after storm event of ≥12.5mm	EIA approval condition, LD P2M2, EMP and ESCP
Environmental Audit	-	-	Project Site	-	Quarterly during earthwork stage, Yearly during operation stage	DOE's conditions of EIA approval, related legislation & regulations
Aerial View Monitoring (River Riparian Buffer Zone)		Waterway on-site	Refer LD-P2M2 Drawing on Appendix 7-1	-	Quarterly	10m Left Buffer Zone 10m Right Buffer Zone
Vibration Monitoring	Airblast dB(L), Vibration (mm/s)	V1	Project Boundary	2°49'15.62"N 101°55'37.15"E	Quarterly	Results will be compared with: i. Baseline samplings ii. Jabatan Mineral dan Geosains (JMG) guideline for Vibration and airblast iii. Guidelines for Environmental Vibration Limits and Control, 2021, Third Edition

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PROPOSED ENVIRONMENTAL MONITORING PROGRAM

Impact Monitoring (IM)	Monitoring Parameter	Monitoring Station	Location	Coordinate	Monitoring Frequency	Applicable Standard
Water Quality Monitoring	pH, Temperature, Dissolved Oxygen (DO), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solid (TSS), Oil & Grease and Ammoniacal Nitrogen (AN)	W1	Tributary of Sungai Sompō (within Project site)	2°49'15.98"N 101°55'55.31"E	Monthly	Results will be compared with: i. Baseline samplings ii. National Water Quality Standard for Malaysia (NWQS) (Class II), Department of Environment
		W2	Tributary of Sungai Sompō (within Project site)	2°49'27.25"N 101°55'54.10"E		
		W3	Tributary of Sungai Sompō (within Project site)	2°49'18.20"N 101°55'50.44"E		
		W4	Tributary of Sungai Sompō (Downstream of Project site)	2°49'30.02"N 101°55'52.69"E		
		W5	Tributary of Sungai Sompō (Downstream of Project site)	2°49'31.64"N 101°55'39.50"E		
		W6	Tributary of Sungai Sompō (Downstream of Project site)	2°49'52.18"N 101°55'46.98"E		
		W7	Tributary of Sungai Sompō (Downstream of Project site)	2°49'56.98"N 101°55'53.17"E		
		W8	Tributary of Sungai Sompō (Another Catchment Area)	2°49'45.28"N 101°56'4.20"E		
		W9	Tributary of Sungai Sompō (Downstream of Project site)	2°50'13.63"N 101°56'12.63"E		
		W10	Tributary of Sungai Sompō (Upstream Project site)	2°49'9.12"N 101°56'14.29"E		
		W11	Sungai Semenyih (Downstream Of Project site)	2°53'31.32"N 101°44'59.22"E		
Ambient Air Quality Monitoring	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃	A1	Project Boundary	2°49'15.62"N 101°55'37.15"E	Once every three months	Results will be compared with: i. Baseline samplings ii. Malaysian Ambient Air Quality Standards 2020
		A2	Homestay	2°49'39.65"N 101°55'38.11"E		
		A3	Mantin Industrial Park	2°48'48.95"N 101°55'27.68"E		
Noise Monitoring	L ₁₀ , L ₅₀ , L ₉₀ , Total Leq dB(A)	N1	Project Boundary	2°49'15.62"N 101°55'37.15"E	Once every three months	Results will be compared with: i. Baseline samplings ii. Maximum Permissible Sound Level (LAEQ) By Receiving Land Use for New Development, Planning Guidelines for Environmental Noise Limits and Control, 2019
		N2	Homestay	2°49'39.65"N 101°55'38.11"E		
		N3	Mantin Industrial Park	2°48'48.95"N 101°55'27.68"E		

