

**RINGKASAN
EKSEKUTIF**

RINGKASAN EKSEKUTIF

Proposed Extension of Rock Extraction on Lot 343585 (ML 127) With an Area of 3.597 Hectares (8.888 Acres) and Existing Granite Quarry Operation on Lot 218275 (ML 085), Lesen Pendudukan Sementara, PT 18674 (PML 10/2018) and PT 18675 (PML 10/2018) With Total Area of 22.77 Hectares (56.263 Acres) in Mukim Tronoh and Mukim Belanja, District of Kinta, Perak Darul Ridzuan

PENGERAKA PROJEK

Papan Granite Sdn. Bhd.
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KENYATAAN KEPERLUAN

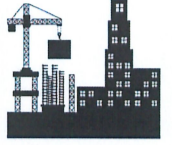


Sumber
- Granit



Produk

- Agregat dengan pelbagai saiz seperti 6"x9", 70mm, 20mm, 14mm dan 10mm
- Batu hancur
- Sisa kuari
- Habuk kuari
- Produk premix (*Asphalt*)
- Konkrit sedia campur



Keperluan
- Industri

KEPERLUAN PERUNDANGAN

Kualiti Alam Sekeliling (Aktiviti yang Ditetapkan)
(Penilaian Kesan Kepada Alam Sekeliling) 2015

Jadual Pertama

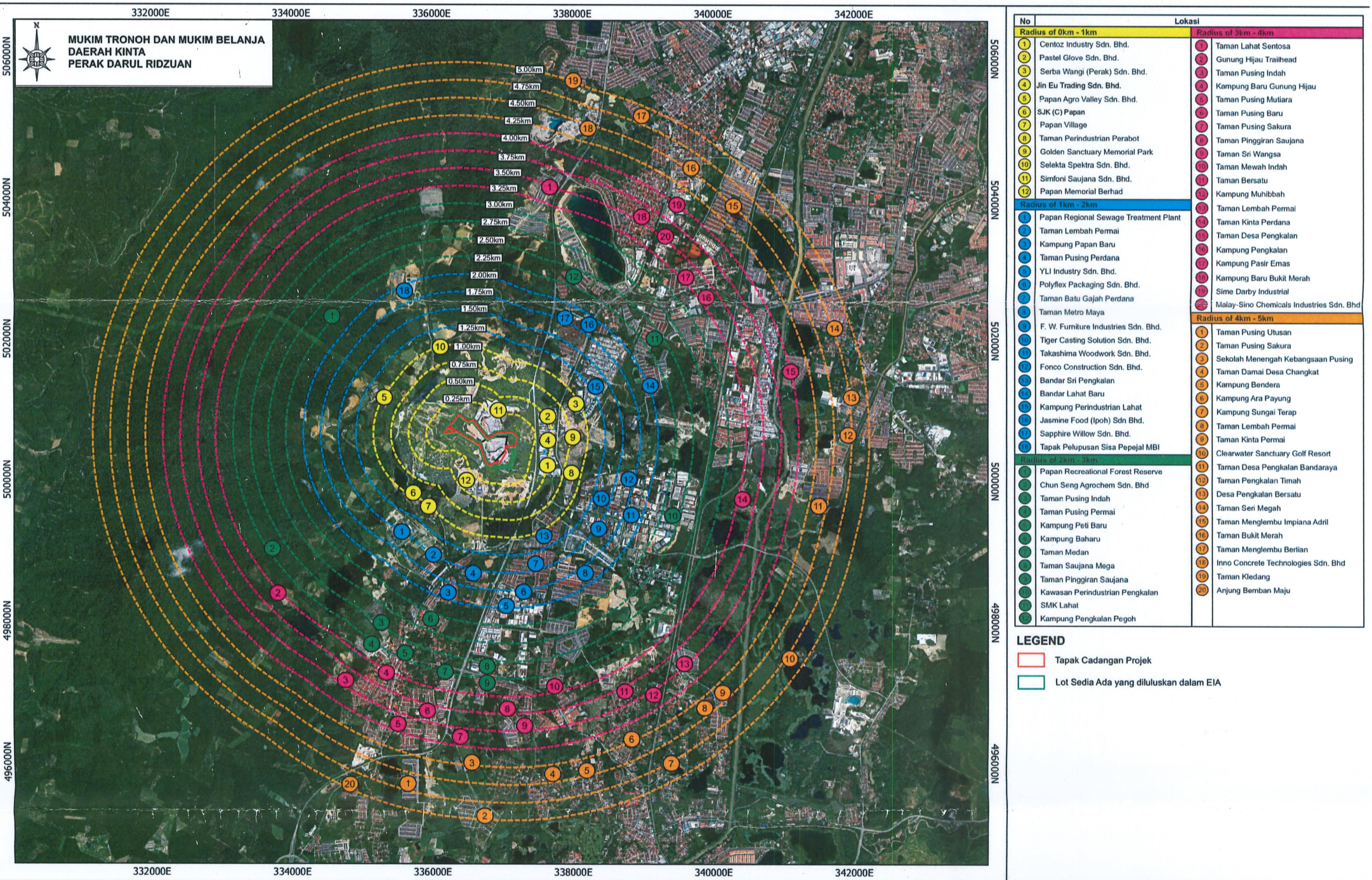
- Aktiviti 19 : Pengkuarian Bahan Batuan

LOKASI PROJEK

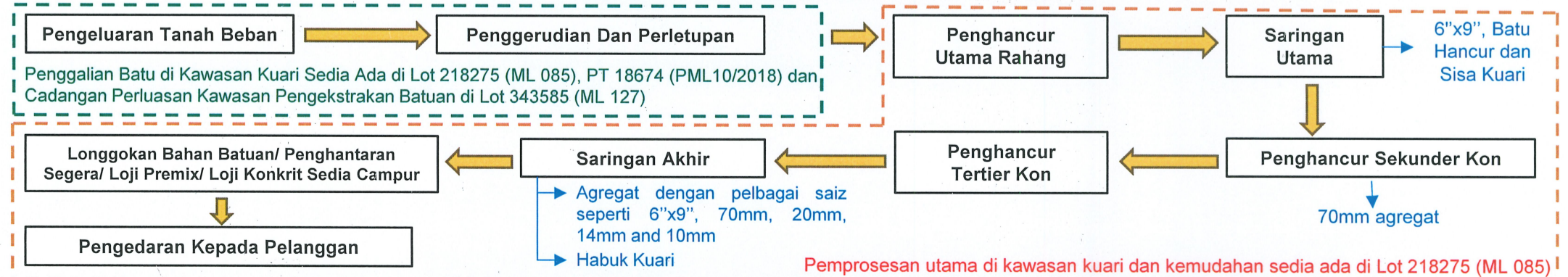
Lot 343585 (ML 127), Lot 218275 (ML 085), Lesen Pendudukan Sementara, PT 18674 (PML 10/2018) dan PT 18675 (PML 10/2018), Mukim Tronoh dan Mukim Belanja, Daerah Kinta, Perak Darul Ridzuan



Akses melalui the jalan utama (Lebuhraya Ipoh-Lumut) dari Menglembu kemudian belok kanan ke jalan sedia ada sejauh kira-kira 0.4km



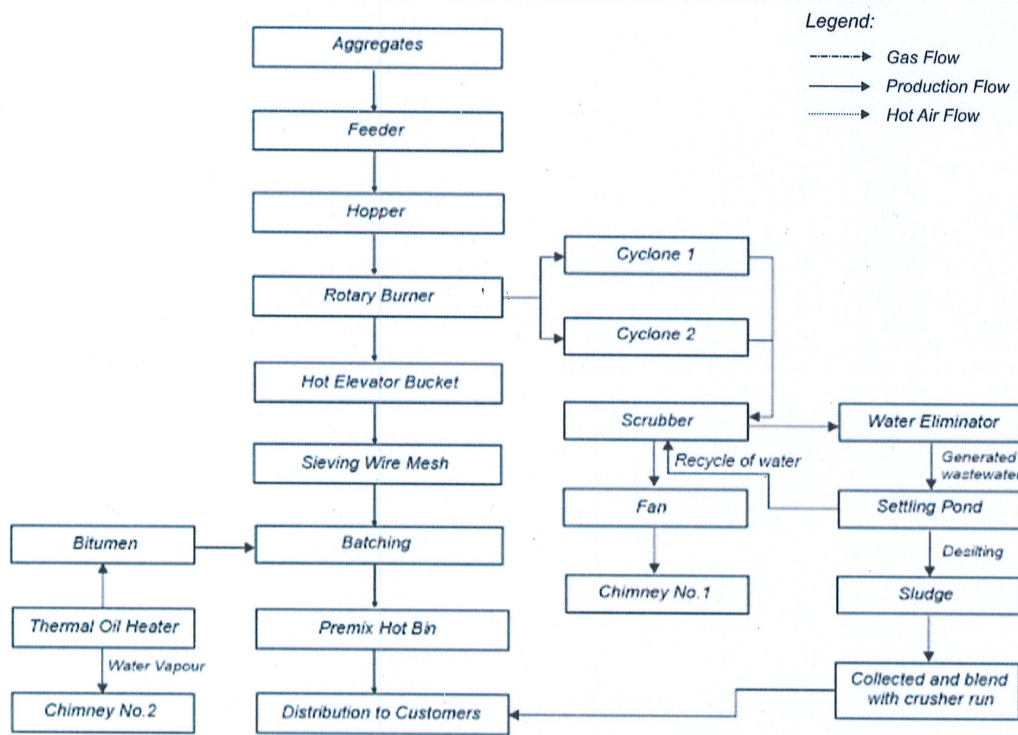
CARTA ALIRAN BAGI KESELURUHAN OPERASI KUARI



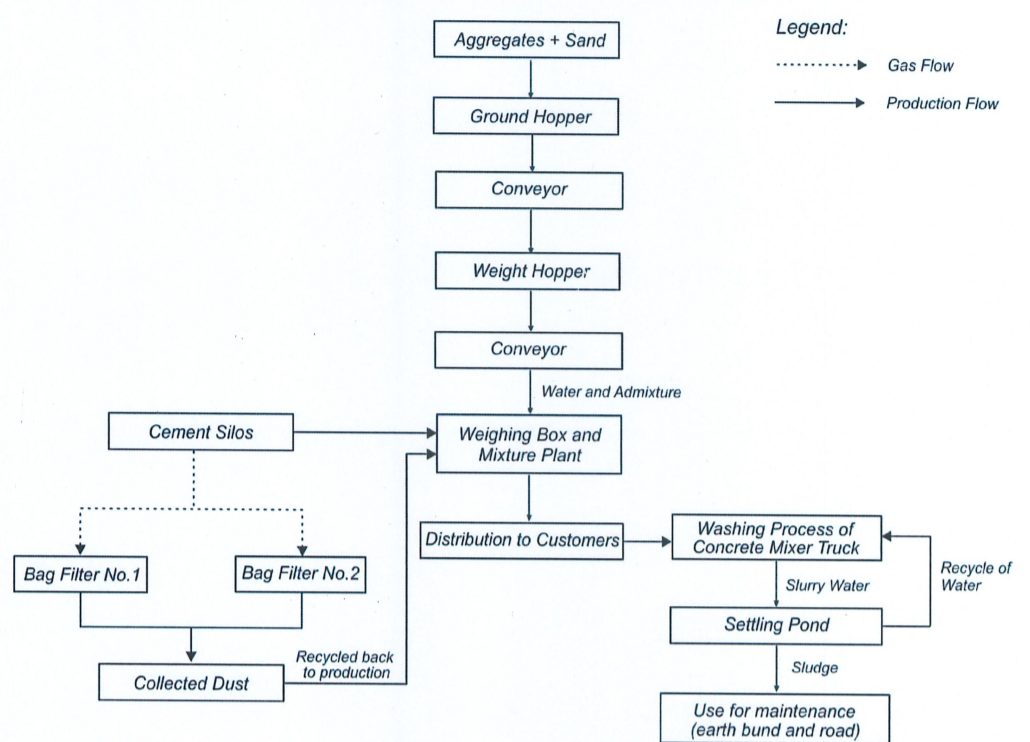
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CARTA ALIRAN PROSES LOJI PREMIX



CARTA ALIRAN PROSES LOJI KONKRIT SEDIA CAMPUR



PERSEKITARAN SEDIA ADA



Topografi

Cadangan tapak projek merangkumi kawasan berbukit dengan ketinggian dari 80 m hingga tertinggi 160 m RL



Geologi

Terdiri daripada *acid intrusive (undifferentiated)*



Tanah

Kategori tanah dalam tapak cadangan projek adalah Tanah Curam (*Steep land*)



Hidrologi

- Terdapat anak sungai Sg. Johan melintasi PT 18675 (PML 10/2018). Namun begitu, tiada sebarang aktiviti akan dijalankan di kawasan ini kerana ia akan disediakan sebagai zon penampungan
- Air larian permukaan → Kolam perangkap mendap → Longkang sedia ada → Longkang awam → Sg. Johan → Sg. Papan → Sg. Kinta → Sg Perak → Selat Melaka



Meteorologi

- Stesen Hospital Batu Gajah
- Stesen Ipoh



Kegunaan Tanah

- Zon perumahan di kawasan cadangan pengekstrakan batuan (Lot 343585 (ML 127))
- Reseptor terdekat: Papan Village (1.00 km ke arah barat daya dari tapak cadangan projek)

AKTIVITI PROJEK

PENYIASATAN

Cadangan perluasan kawasan pengekstrakan batuan di Lot 343585 (ML 127):

- Tinjauan lapangan
- Ukur dan pemetaan
- Penggerudian dan persampelan
- Kajian garis dasar alam sekitar
- Kajian Impak Alam Sekitar
- Penilaian teknikal dan kewangan

PEMBANGUNAN

Cadangan perluasan kawasan pengekstrakan batuan di Lot 343585 (ML 127) dan Penggalian batu di kawasan kuari sedia ada di PT 18674 (PML 10/2018):

- Penandaan sempadan dan kedudukan
- Mobilisasi tenaga kerja untuk pembersihan tapak
- Pengangkutan peralatan dan bekalan untuk pembersihan tapak
- Pembersihan tapak
- Pembinaan sistem perparitan
- Pembinaan kolam perangkap mendap
- Pembinaan jalan dalaman dari kawasan kuari sedia ada ke cadangan perluasan kawasan pengekstrakan batuan
- Pembuangan tanah beban
- Pembangunan muka kuari dan kawasan kerja
- Mewujudkan zon penampungan
- Pengurusan sisa yang dihasilkan di tapak projek

PENGELUARAN

- Penggerudian
- Peletupan
- Penyimpanan Stok
- Penghancuran
- Penyaringan
- Pengangkutan batuan pecahan ke kawasan penyimpanan
- Proses loji premix
- Proses loji konkrit sedia campur
- Penyelenggaraan komponen BMPs

PENUTUPAN

- Demobilisasi infrastruktur dan kemudahan
- Pengurusan sisa buangan di tapak projek
- Memampat, meratakan, penggedran dan menampungan tanah
- Perhutanan semula dengan penanaman di kawasan pengekstrakan batu atau mana-mana kawasan yang dikenal pasti yang tidak terjejas oleh aktiviti pengekstrakan batu dengan pokok yang cepat tumbuh dan rumput yang sesuai atau tanaman penutup bumi

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POTENSI IMPAK DAN LANGKAH – LANGKAH MITIGASI YANG DICADANGKAN

 Pencemaran Air/ Hakisan dan Pemandapan Tanah	  Kolam Perangkap Mendap	 Tanaman Tutup Bumi	 Longkang Tanah	 Spillage Kit	 Pemantauan kualiti air
 Pencemaran Bunyi dan Getaran	  Penutup telinga	 Program pemantauan tahap bunyi bising	 Plug telinga	 Papan Tanda Dilarang Masuk Semasa Perletupan Batu Dijalankan	 Dikendalikan oleh shotfirer yang diiktiraf
 Pencemaran Udara	  Program pemantauan kualiti udara	 Larangan Pembakaran Terbuka	 Kenderaan yang membawa bahan batuan keluar dari tapak perlu ditutup	 Water Browser	
 Ekologi Daratan	  Pemeliharaan Kawasan Hijau	 Dilarang pemburuan	 Menghubungi Jabatan PERHILITAN	 Mengekalkan zon penamparan riparian	
 Sisa Bahan Buangan	  Larangan Pembakaran Terbuka	 Pengurusan sisa pepejal	 Penyimpanan Sisa Bahan Buangan Terjadual Yang Ditetapkan	 Pengutipan sisa bahan buangan	
 Keselamatan dan Kesihatan Pekerja	  Pelaksanaan Emergency Response Plan (ERP)	 Pekerja menggunakan high visibility vest	 Personal Protective Equipment (PPE)	 Ujian Audiometrik	
 Sosioekonomi	  Keutamaan kepada keselamatan pekerja	 Upah pekerja tempatan	 Meningkatkan perniagaan		

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CADANGAN PROGRAM PEMANTAUAN KUALITI ALAM SEKITAR

Komponen	Lokasi	Parameter & Frekuensi
Kualiti Pelepasan Akhir Kolam Perangkap Mendap	2 stesen (ST1 dan ST4)	Parameters: TSS, Kekeruhan Frekuensi: Setiap bulan
Kualiti Air	5 stesen (Aliran tengah tapak cadangan projek (Anak sungai Sg. Johan, Aliran hilir tapak cadangan projek (Sungai Johan), Longkang awam dan Di longkang awam yang menerima pengaliran dari longkang sedia ada)	Parameters: pH, Temperature, DO, COD, BOD, TSS, Oil and Grease, Ammoniacal Nitrogen Frekuensi: 3 bulan sekali
Kualiti Ambien Udara	3 stesen (Sempadan tapak cadangan projek, Papan Village, Taman Perindustrian Perabot dan Bandar Sri Pengkalan)	Parameter: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃ Frekuensi: 3 bulan sekali
Tahap Bunyi Bising		Parameters: L ₁₀ , L ₅₀ , L ₉₀ , Total Leq dB(A) Frekuensi: 3 bulan sekali
Tahap Getaran	1 stesen (Berhampiran pejabat tapak)	Parameters: Airblast dan Vibration Frekuensi: Setiap letupan
Pelepasan Cerobong	2 stesen (Cerobong No.1 (rotary burner) and Cerobong No.2 (thermal oil heater))	Parameters: Total Particulate Matter Frekuensi: Setiap tahun sekali





EXECUTIVE SUMMARY

KenEp Consultancy & Services



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PROJECT PROPONENT

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EIA CONSULTANT

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STATEMENT OF NEED

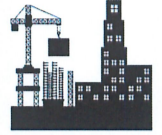


Source
- Granite



Products

- Aggregates with various size including 6"x9", 70mm, 20mm, 14mm and 10mm
- Crusher run
- Quarry waste
- Quarry dust
- Premix products (asphalt)
- Ready-mix concrete



Demand
- Industries

LEGISLATIVE REQUIREMENT

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

First Schedule

- Prescribed Activity 19: Quarrying of Rock Material

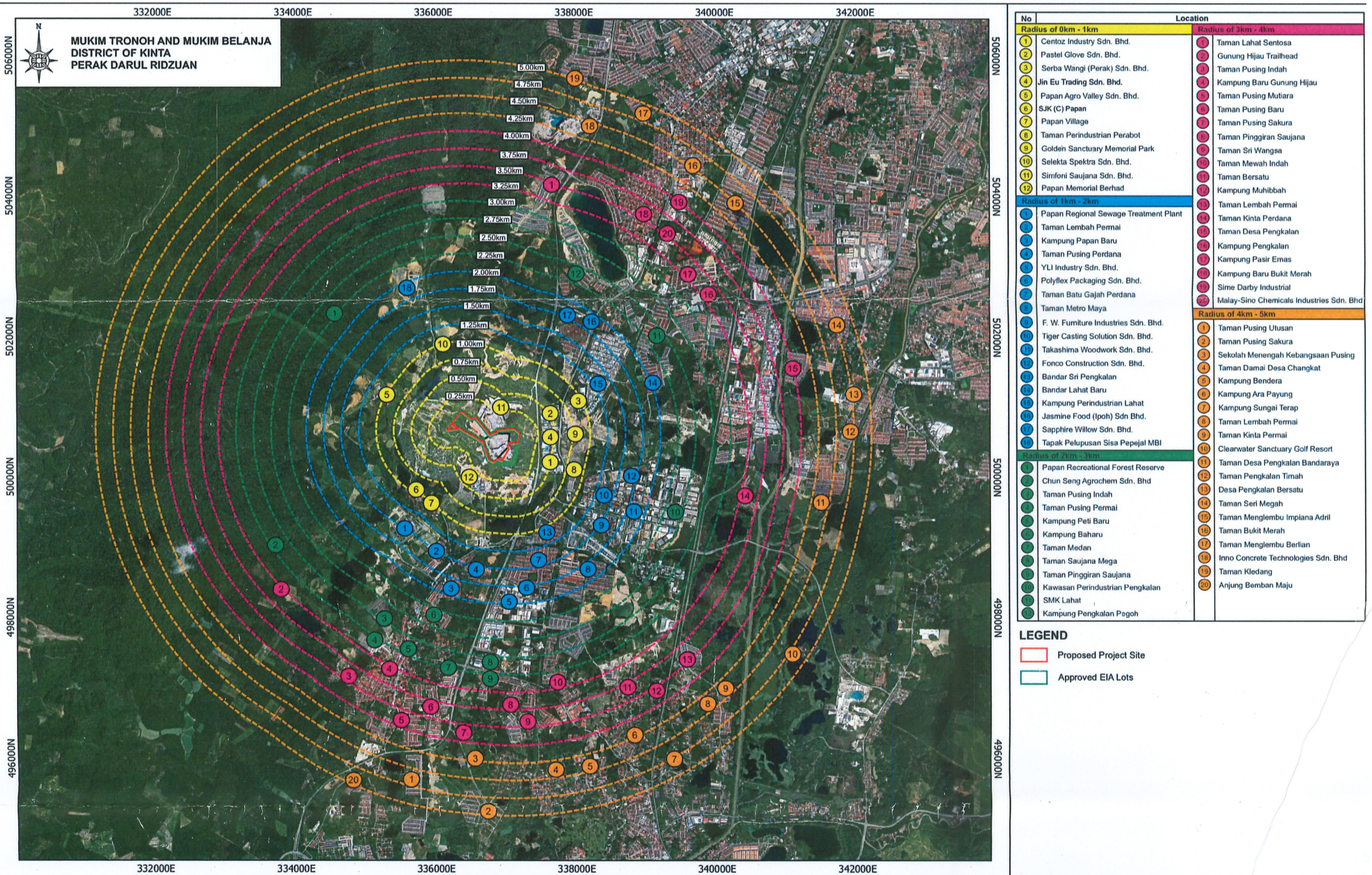
PROJECT LOCATION



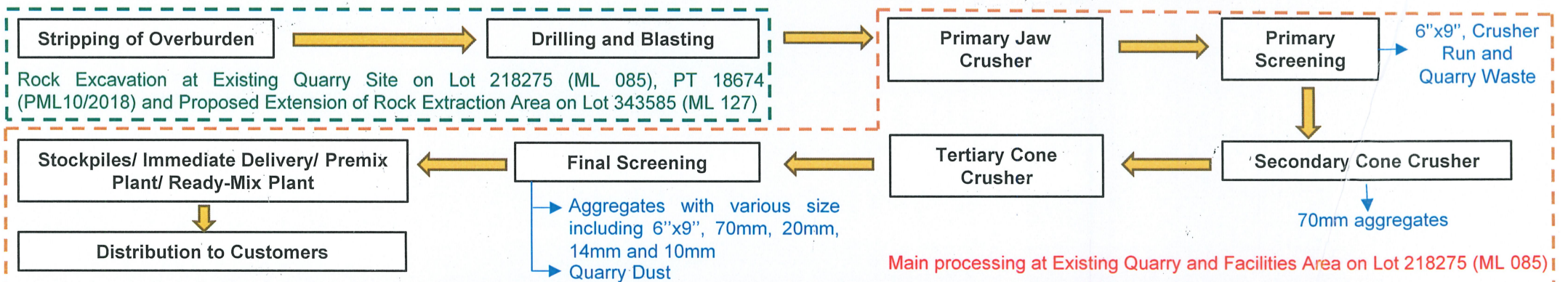
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Access via the existing main road (Lebuhraya Ipoh-Lumut) from Menglembu then turning right into the existing access road approximately 0.4km



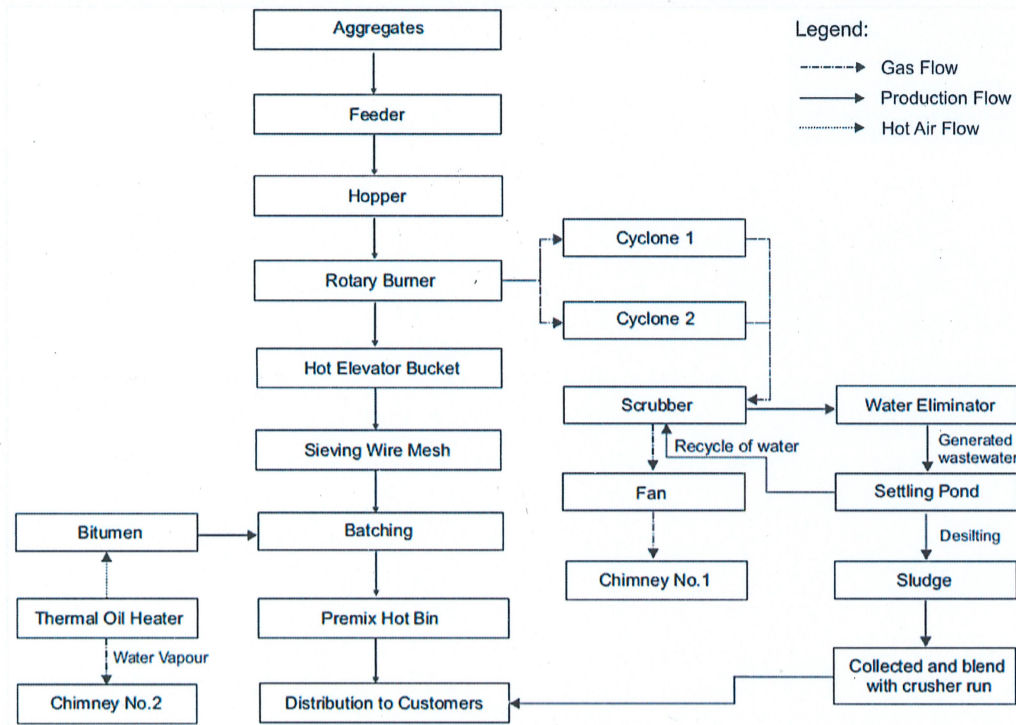
FLOW CHART OF THE OVERALL QUARRY OPERATION



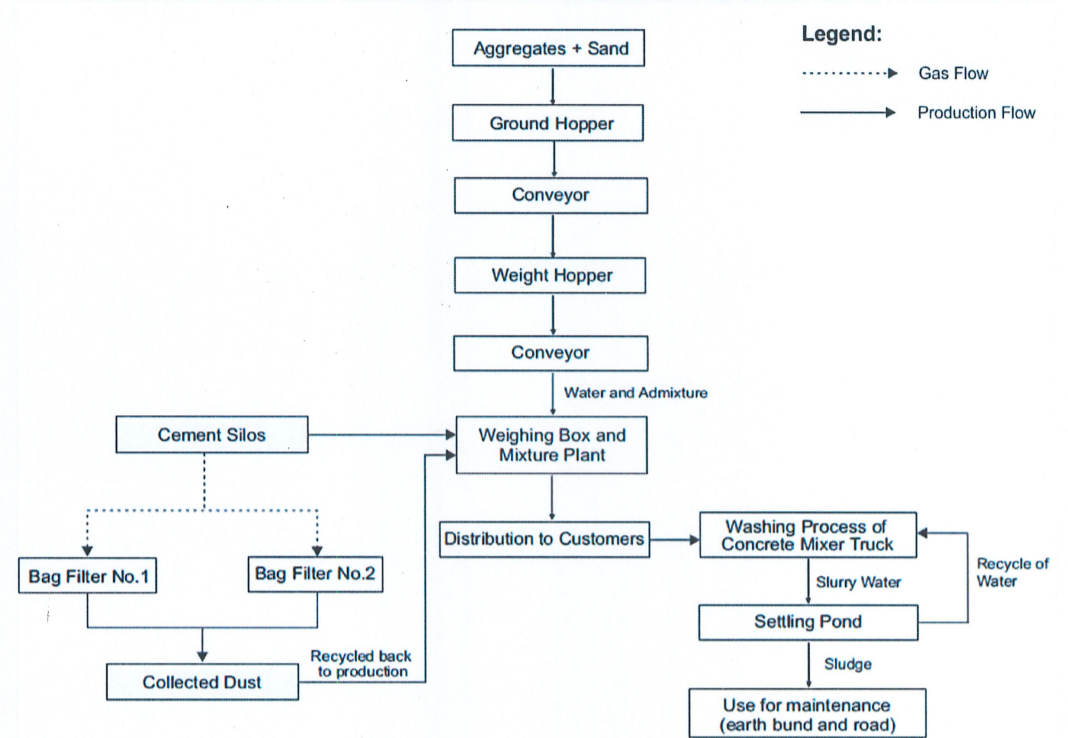
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PROCESS FLOW CHART OF EXISTING PREMIX PLANT



PROCESS FLOW CHART OF EXISTING READY-MIX PLANT



EXISTING ENVIRONMENT



Topography

The topography of proposed Project site is generally undulating hilly terrain with the elevation range from 80 m to 160 m RL



Geology

Composed of acid intrusive (undifferentiated)



Soil

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



Hydrology

- There is tributary of Sg. Johan crossing over the PT 18675 (PML 10/2018). However, no activities will be carried out at this area as it will be reserved as buffer zone.
- Runoff Discharge → Sediment Traps → Existing Drain → Public Drain → Sg. Johan → Sg. Papan → Sg. Kinta → Sg. Perak → Straits of Melaka



Meteorology

- Hospital Batu Gajah Station
- Ipoh Station



Existing Landuse

- Housing zone (Proposed extension of rock extraction area on Lot 343585 (ML 127))
- Nearest receptor: Papan Village (1.00 km southwest of the proposed Project site)

PROJECT ACTIVITIES

INVESTIGATION

Proposed Extension of Rock Extraction Area (Lot 343585 (ML 127)):

- Field reconnaissance
- Surveying and mapping
- Drilling and sampling
- Environmental baseline studies
- Environmental Impact Assessment
- Technical and financial evaluation

DEVELOPMENT

Proposed Extension of Rock Extraction Area (Lot 343585 (ML 127)) and Existing Rock Extraction Area on (PT 18674 (PML 10/2018)):

- Boundary demarcation and positioning
- Mobilization of workforce for site clearance
- Transport of machinery and equipment for site clearance
- Site clearing
- Construction of drainage system
- Construction of sediment traps
- Construction of internal roads from existing quarry to proposed extension of rock extraction area
- Overburden removal
- Quarry face and benches development
- Creation of buffer zone
- Managing waste at the proposed Project site

PRODUCTION

- Drilling
- Blasting
- Stockpiling
- Crushing
- Screening
- Transportation of aggregates to stockpile area
- Processing in premix plant
- Processing in ready-mix plant
- BMPs maintenance

ABANDONMENT

- Demobilisation of equipment and machineries
- Waste management on site
- Compaction, levelling, grading, and top soiling
- A forestation by re-vegetate the rock extraction area or any identified areas which are not affected by rock extraction activities with fast-growing trees and suitable grasses or leguminous cover crops

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POTENTIAL IMPACTS & PROPOSED MITIGATION MEASURES



**Water Pollution/
Soil Erosion and
Sedimentation**



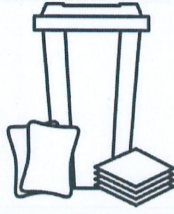

Sediment Trap



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



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

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PROPOSED ENVIRONMENTAL MONITORING PROGRAM

Components	Location	Parameter & Frequency
Sediment Trap Final Discharge Quality	2 stations (ST1 and ST4)	Parameters: TSS, Turbidity Frequency: Monthly
Water Quality	5 stations (Midstream of proposed Project site (Tributary of Sungai Johan, Downstream of proposed Project site (Sungai Johan), Public Drain and At public drain that receive discharge from the existing drain)	Parameters: pH, Temperature, DO, COD, BOD, TSS, Oil and Grease, Ammoniacal Nitrogen Frequency: Quarterly
Ambient Air Quality	3 stations (Project boundary, Papan Village, Taman Perindustrian Perabot and Bandar Sri Pengkalan)	Parameter: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃ Frequency: Quarterly
Noise Level		Parameters: L ₁₀ , L ₅₀ , L ₉₀ , Total Leq dB(A) Frequency: Quarterly
Vibration Level	1 station (Near site office)	Parameters: Airblast and Vibration Frequency: Every blast
Isokinetic Stack	2 stations (Chimney No.1 (rotary burner) and Chimney No.2 (thermal oil heater))	Parameters: Total Particulate Matter Frequency: Yearly

