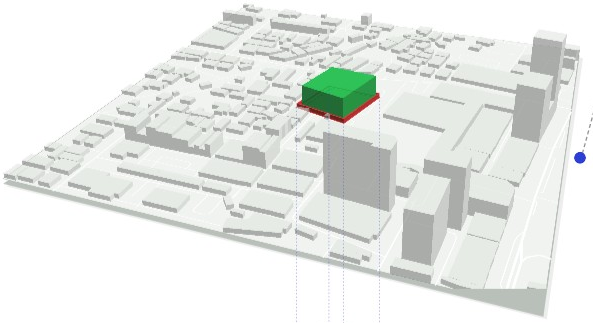
Kampung Baru, Kuala Lumpur

3.16450, 101.70040 · 3 Oct 2026



SITE AREA	GROUND LEVEL	PREVAILING WIND	ANNUAL RAINFALL	NEAREST TRANSIT	MEAN MAX TEMP.
4,432 m²	37 m	NE · 1.5 m/s	3,278 mm	227 m	31.5 °C

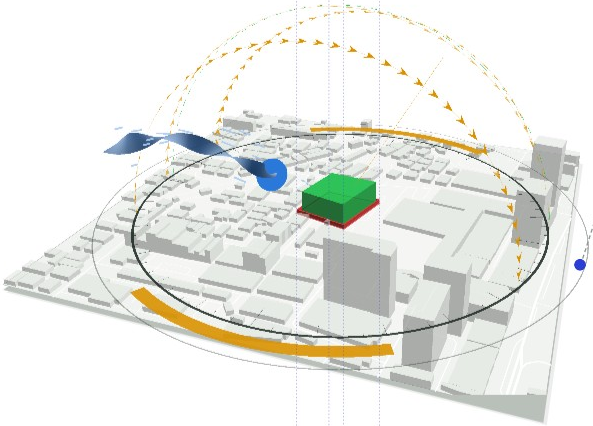
Site boundary · Proposed mass · shown on every layer



00 SITE LIMITS & PROPOSED MASS

4,432 m² site, 267 m perimeter; 3,486 m² buildable inside the setbacks. Proposed mass: 8 floors, about 28 m.

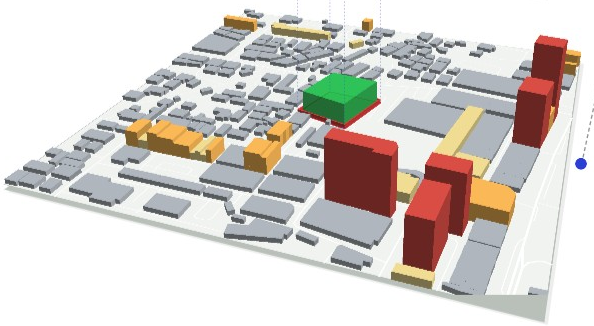
Boundary · Setback · Proposed mass



01 SUN & WIND PATHS

Noon sun to the north 29 Mar – 15 Sep, south the rest of the year. Prevailing wind from the north-east at 1.5 m/s.

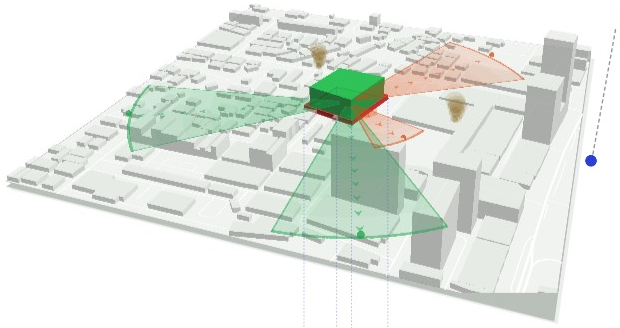
Sun paths Jun · equinox · Dec · Prevailing wind



02 FIGURE GROUND & BUILDING HEIGHTS

338 buildings in the 500 m × 500 m study area cover about 43% of the ground: dense, fine urban grain. Mostly 1–2 floors (85%); tallest about 92 m (~26 floors).

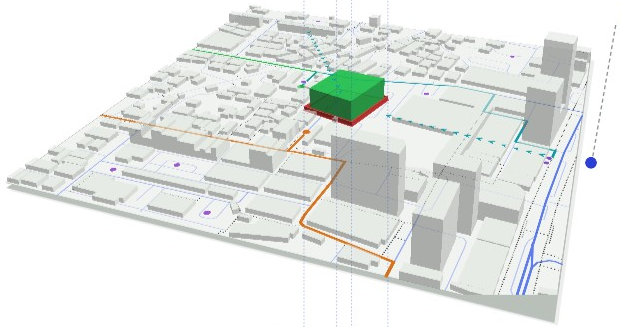
1–2 floors · 3–4 floors · 5–8 floors · 9–15 floors · 16+ floors



03 VIEWS, NOISE & SMELL

No observations marked yet. Possible from map data: bad smell to the south-east (Raja Alang Market), 97 m; bad smell to the west (Chow Kit Market), 123 m.

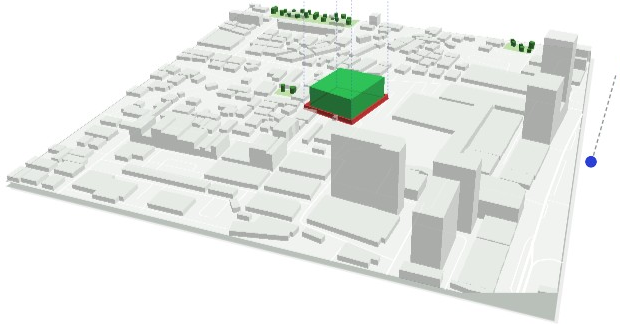
Good view · Bad view · Noise · Smell



04 ACCESS & CIRCULATION

Suggested entrance from Unnamed road (E side), exit onto Lorong Raja Bot. Main roads: Lorong Raja Bot, Jalan Raja Alang. 2 bus stops and 8 car parks in the study area.

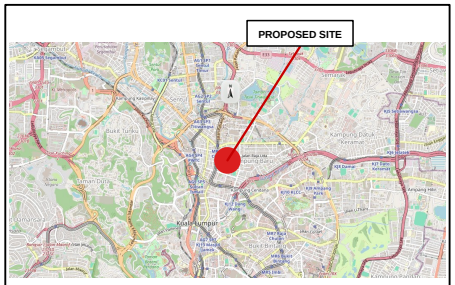
Main road · Secondary · Walkway · Route in · Route out · Parking



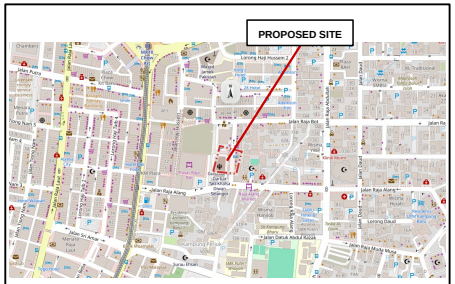
05 GREENERY & WATER

Green and planted areas cover about 2% of the study area. 28 tree canopies shown.

Park / wood · Trees · Water



KEY PLAN
NOT TO SCALE



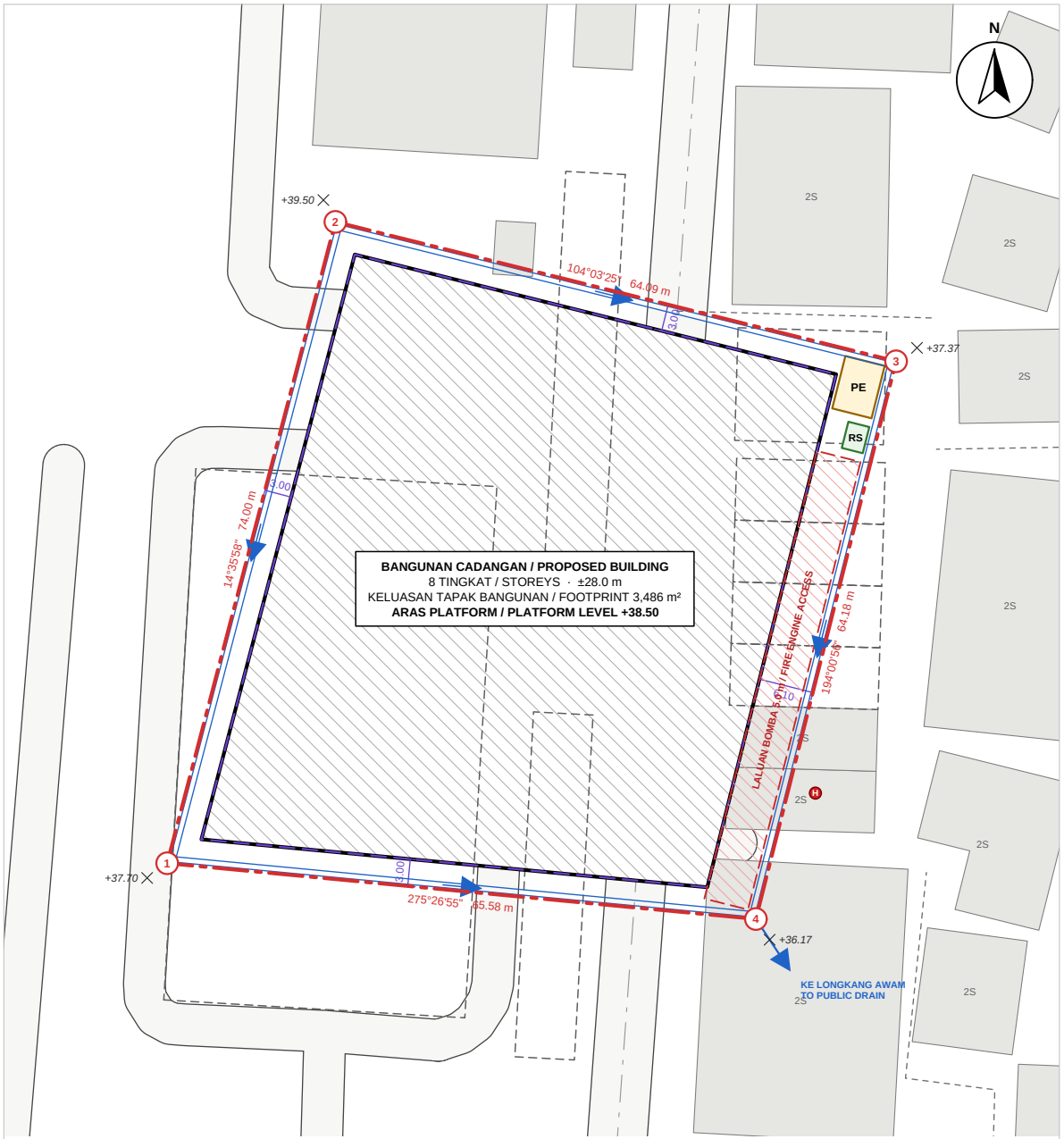
LOCATION PLAN
NOT TO SCALE

LEGEND

- Sempadan tapak / Site boundary
- Garisan anjakan / Setback line
- Bangunan cadangan / Proposed building
- Bangunan sedia ada / Existing (2S = 2 storeys)
- Untuk dirobohkan / To be demolished
- Jalan / Road
- Stesen sempadan / Boundary station
- Masuk / keluar / Vehicle in / out
- Aras tanah / Ground level
- Longkang 600 mm / Proposed drain
- Laluan bomba / Fire engine access
- Pili bomba / Fire hydrant
- RS: Rumah sampah / Refuse chamber
- PE: Pencawang TNB / Substation

SITE DATA

Lot	**LOT 1234 (CONTOH / SAMPLE)**
Site area	**4,432 m² (1.10 ac)**
Footprint	**3,486 m²**
Storeys / height	**8 / ±28.0 m**
GFA	**27,884 m²**
Plot ratio	**1 : 6.29**
Site coverage	**79 %**
Setbacks F / S / R	**6.1 / 3 / 3 m**
Ground level	**±37.0 m (DEM)**
Platform level	**+38.50 m**
Car bays	**16**
Use	**Shop / retail (e.g. zero-waste hub, market)**
Zoning (mapped)	**Institutional & community facilities**



SITE PLAN
SCALE 1:750 @ A4

NOTES :

THIS DRAWING IS COPYRIGHT. THE MAIN CONTRACTOR SHALL CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY DISCREPANCY SHALL BE REFERRED TO THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH THE WORK.
1. ALL DIMENSIONS IN METRES UNLESS STATED.
2. BOUNDARY, BEARINGS AND DISTANCES TRACED FROM THE MAP, NOT SURVEYED; CONFIRM WITH THE JUPEM CERTIFIED PLAN.
3. SETBACKS (BUNGALOW / DETACHED HOUSE), GROUND LEVELS (DEM) AND SERVICES ARE INDICATIVE; CONFIRM WITH THE LOCAL AUTHORITY.

PROJECT :

CADANGAN MEMBINA SEBUAH PUSAT KOMUNITI 4 TINGKAT DI ATAS LOT 1234 (CONTOH / SAMPLE), MUKIM KUALA LUMPUR, DAERAH KUALA LUMPUR, WILAYAH PERSEKUTUAN UNTUK TETUAN PROJEK STUDIO (CONTOH).

OWNER :

(PROJEK STUDIO (CONTOH))

NAMA : PROJEK STUDIO (CONTOH)
ALAMAT : —

DRAWING :

1. KEY PLAN
2. LOCATION PLAN
3. SITE PLAN

ARCHITECT

MULHIM DESIGN
NAMA : SHAHRUL MULHIM
NO. REG. : —
ALAMAT : —

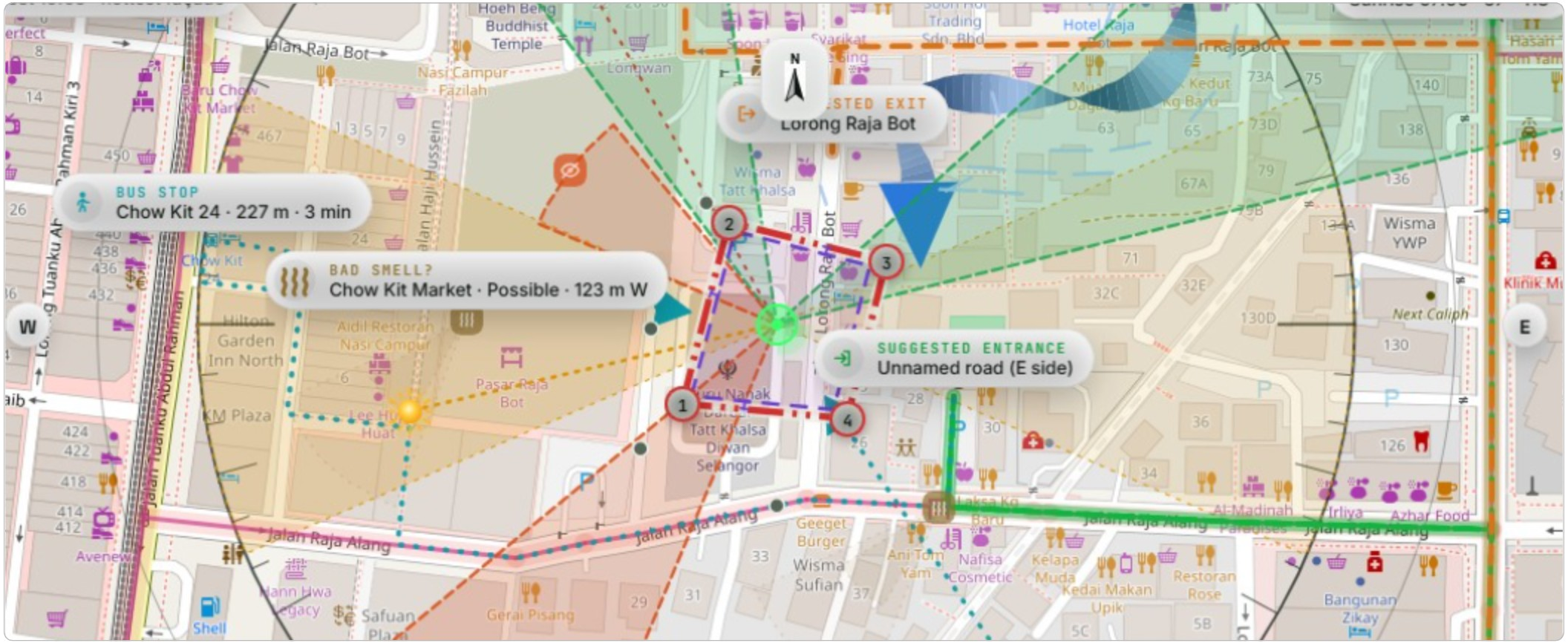
MULHIM DESIGN

ARCHITECT'S SIGNATURE

(SHAHRUL MULHIM)
ARCHITECT

"Saya memperakui bahawa butir-butir di dalam pelan-pelan ini adalah menurut kehendak-kehendak Undang-Undang Kecil Bangunan Seragam 1984 dan saya bersetuju menerima tanggungjawab penuh dan sewajarnya."

DRAWN BY :	PELAJAR CONTOH
CHECKED BY :	PENSYARAH
REG NO. :	
SCALE : 1:750 @ A4	**DATE :** 03.10.2026
REVISION :	A 03.10.2026 Contoh / Sample
DRAWING NO. :	SAMPLE-01 (3/21)



LEGEND
SITE: Site · Boundary · Station no.
SUN: Sunrise / sunset range · Sun now · Shadow (12 m object)
WIND: Prevailing wind
CONTEXT: Traffic noise · Major road · Water
WALKING: 5 / 10 min radius
COMPASS: Compass ring · Best orientation
SETBACK: Setback line · Buildable area
CIRCULATION: Route in · Route out · Walk from transit · Other gate
PEDESTRIAN: Pedestrian flow
OBSERVATIONS: Noise · Good view · Bad view · Bad smell · Litter / dumping · Vandalism · Open burning · Dark / unsafe spot · Loitering · Possible (from map data) · View cone from site
PHOTOS: Photo spot · Camera view
STREET MAP: Bus stop · Parking · Food & café · Shop · Bank / ATM · Clinic / pharmacy · School / university · Mosque / worship · Building · Park / green · Water · Main road · Local road · Footpath

Map: © OpenStreetMap contributors

SITE ANALYSIS · BY MULHIM DESIGN

Kampung Baru, Kuala Lumpur

Site boundary

COORDINATES	GROUND LEVEL
3.16450, 101.70040	37 m above sea level

SITE AREA	PERIMETER
Not drawn	—

BEARING & DISTANCE SCHEDULE

LINE	BEARING	DISTANCE
1 → 2	14°35'58"	74.00 m
2 → 3	104°03'25"	64.09 m
3 → 4	194°00'56"	64.18 m
4 → 1	275°26'55"	65.58 m

Traced from the map, not surveyed. Use the stations and bearings on the JUPEM certified plan (Pelan Akui) for real work.

BUILDING SETBACKS · GARISAN ANJAKAN

Bungalow / detached house: front 6.1 m · side 3 m · rear 3 m

LINE	FACES	SETBACK
1 → 2	Rear	3.00 m
2 → 3	Side	3.00 m
3 → 4	Front	6.10 m
4 → 1	Side	3.00 m

BUILDABLE AREA	SHARE OF SITE	FRONT FACES
3,486 m²	79 %	Unnamed road (E side)

Values are typical minimums from Malaysian planning guidelines, measured from the lot boundary. Your local authority (PBT) and the local plan (RTD/RKK) set the actual setbacks, which also depend on road reserve width and building height. UBBL 1984 governs building requirements such as fire appliance access and natural lighting; check the latest amendments adopted by your state.

LEGAL · UBBL 1984 & BOMBA

Set your proposed building to check it against the site, the setbacks and the main fire-safety rules. Items marked **Auto** are checked from map data; tick the others when they are shown on your drawings.

GROSS FLOOR AREA	PLOT RATIO	SITE COVERAGE
800 m²	draw boundary	—

Check Auto **Setbacks**

Draw the site boundary to compare the footprint with the buildable area

Check Auto **Hydrant (UBBL 225)**

No hydrant mapped within 250 m. Look for one on site; it must be within 91 m of the entrance

Check Auto **Fire engine access (UBBL 140)**

Lorong Raja Bot: about 3.0 m, less than 6 m. Provide a fire appliance access road within the site

Not triggered Auto **Sprinklers (10th Sch.)**

200 m² per floor × 4 storeys: below the 750 m² multi-storey shop limit. Hose reels and extinguishers still apply

Required Auto **Extinguishers (5th Sch.)**

Portable extinguishers: 9 kg ABC in general areas, CO_2 in electrical rooms

Guide Auto **Windows (By-law 39)**

A 200 m² floor needs about 20 m² of windows, 10 m² of it openable

Checks follow UBBL 1984 and the Bomba requirements used in Design Studio 5. Rules are amended from time to time; confirm with the latest UBBL, the Fire and Rescue Department (JBPM) and your local authority before submission.

SITE PHOTOS

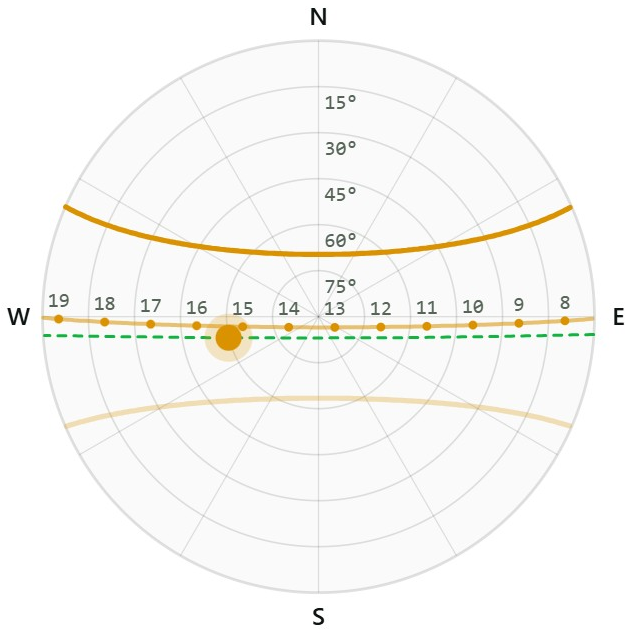
Sun path

Sun position for 3 Oct 2026, 15:00 (local time)

SUNRISE	SUNSET	SOLAR NOON
07:00	19:05	13:04 83°

ALTITUDE · AZIMUTH	SUN DIRECTION	SHADOW OF 3 M POLE
60° · 257°	West	1.7 m to E

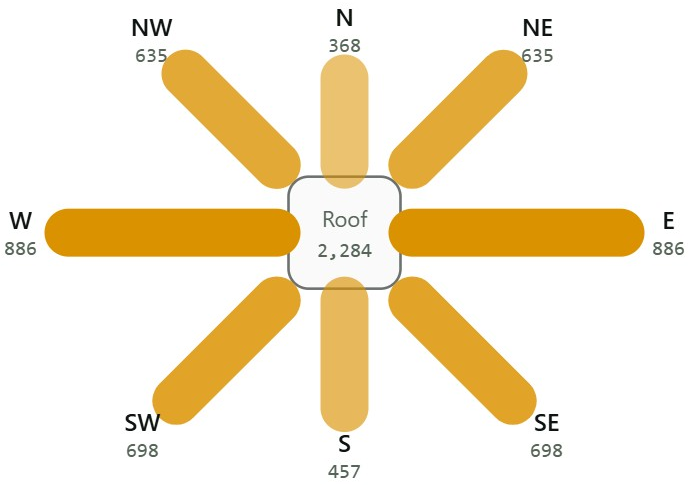
SUN PATH DIAGRAM



21 Jun · 21 Mar / 23 Sep · 21 Dec · Selected date

Polar projection: centre = directly overhead (90°), outer ring = horizon (0°).

DIRECT SUN ON EACH FAÇADE



Estimated kWh/m² per year of clear-sky direct radiation. Use it to compare façades, not as an absolute value.

Wind & climate

PREVAILING FROM
NE 45°

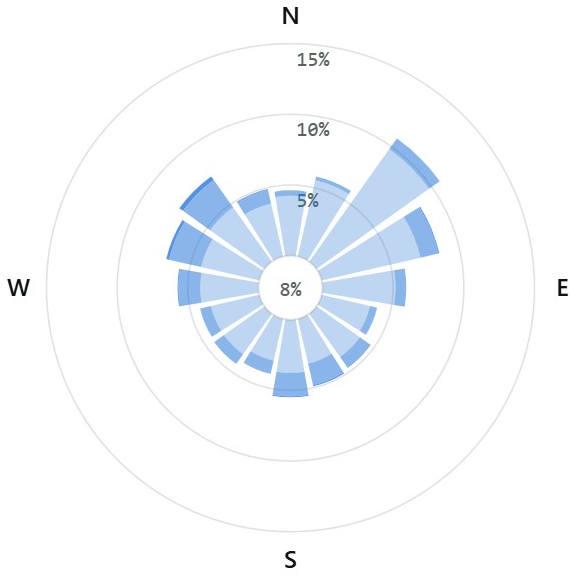
MEAN SPEED
1.4 m/s · light air

USEFUL BREEZE (≥ 1.5 M/S)
37 % of hours

MONSOON COMPARISON

SEASON	FROM	MEAN	CALM
Northeast Monsoon Nov–Mar	NE 45°	1.3 m/s	10%
Southwest Monsoon Jun–Sep	NE 45°	1.5 m/s	5%
Inter-monsoon Apr–May, Oct	NW 315°	1.5 m/s	7%

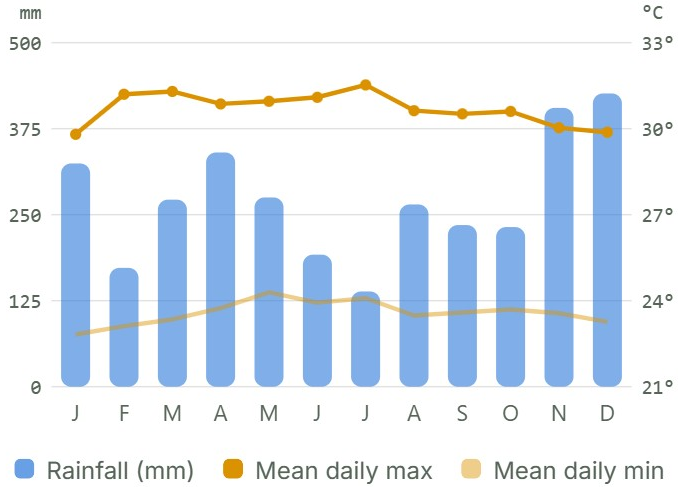
WIND ROSE · ALL YEAR



0.5–2 m/s · 2–4 m/s · 4–6 m/s · > 6 m/s

Petals show the direction wind comes **from**. Length = % of time.

MONTHLY RAINFALL & TEMPERATURE



ANNUAL RAINFALL	WET DAYS IN MODEL (≥ 1 MM)	WETTEST MONTH
3,278 mm	**286** / year	**Dec**

MEAN DAILY MAX	MEAN HUMIDITY	HOURS ≥ 30 °C
31.5 °C	**82** %	**13** % of year

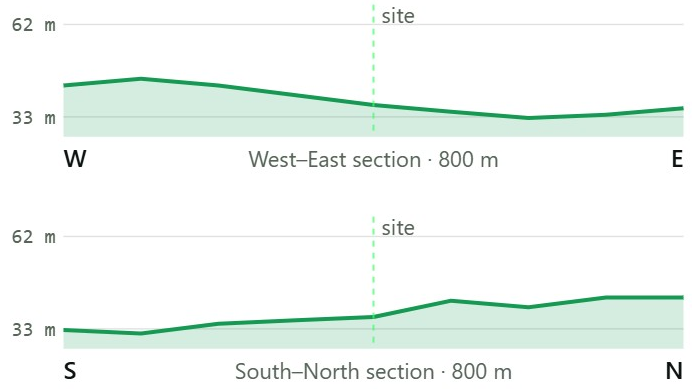
Data: 2021–2025 average, hourly ECMWF IFS analysis (~9 km grid) via Open-Meteo. Nearest grid point 3.8 km from the site. Models tend to over-count days with light rain, so treat wet days and rainfall as indicative; for detailed design use MetMalaysia station records.

Terrain & drainage

LEVEL AT SITE	GRID RANGE	HEIGHT DIFFERENCE
37 m	32–63 m	31 m

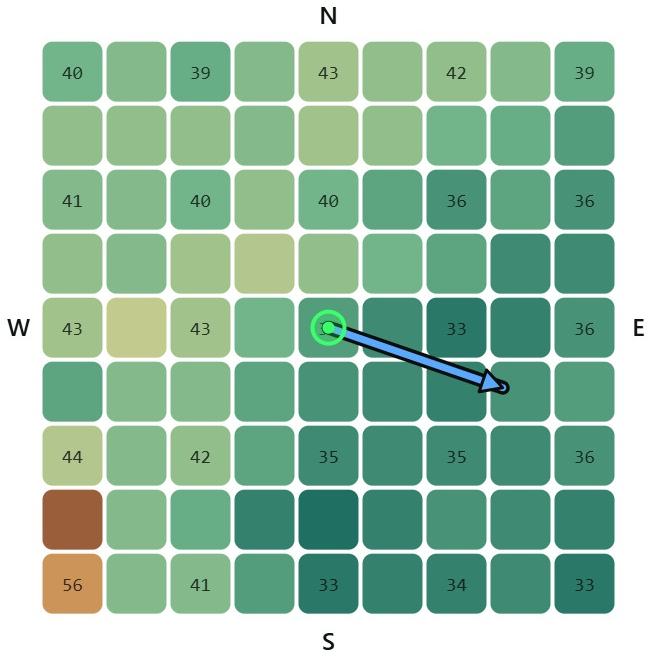
SLOPE AT SITE	SLOPE CLASS	RUNOFF FLOWS
3.9 %	Gentle	SE

SITE SECTIONS



DEM resolution is 30–90 m. Good for early studies only; use a measured survey (JUPEM / licensed land surveyor) for real design.

ELEVATION MAP & RUNOFF DIRECTION



Arrow = downhill direction (general surface runoff).

Surrounding context

AMENITIES WITHIN 5 MIN
6/6 Good

NEAREST TRANSIT
227 m

BUILDINGS WITHIN 500 M
1,077

NEARBY AMENITIES

- **Education** 11
  Nearest: SK Kampung Bharu · 234 m · 3 min walk
- **Places of worship** 8
  Nearest: Guru Nanak Darbar Tatt Khalsa Diwan Selangor · 26 m · 1 min walk
- **Healthcare** 25
  Nearest: Pusat Dialisis Aiman · 112 m · 1 min walk
- **Public transport** 15
  Nearest: Chow Kit 24 · 227 m · 3 min walk
- **Food & shops** 579
  Nearest: Pasar Mini Melur Sejahtera · 27 m · 1 min walk
- **Parks & civic** 20
  Nearest: Sanggar Bimbingan Kampung Bharu · 71 m · 1 min walk

ROADS & NOISE

- **Primary road** ~57 dB
  Primary road · 362 m from site, to the north-west
- **Jalan Pahang** ~57 dB
  Primary road · 380 m from site, to the north-west
- **Jalan Raja Alang** ~57 dB
  Local collector road · 70 m from site, to the south
- **Jalan Tuanku Abdul Rahman** ~55 dB
  Secondary road · 238 m from site, to the west
- **Secondary road** ~54 dB
  Secondary road · 284 m from site, to the north-west
- **Jalan Raja Muda Abdul Aziz** ~54 dB
  Secondary road · 343 m from site, to the north

Rough traffic-noise estimate (line source, −3 dB per doubling of distance). Daytime limits for residential areas are typically around 55–60 dB(A); refer to Malaysia's DOE noise guidelines.

OSM data is community-mapped and may be incomplete. Confirm on your site visit.

ZONING · LAND USE WITHIN 1 KM

Land use from OpenStreetMap, grouped into the categories used in Malaysian local plans (RT / RTD). This is not the gazetted zoning: confirm with the local plan from PLANMalaysia or your local authority.

ZONE	SHARE OF 1 KM
Commercial Perniagaan & perkhidmatan	24%
Residential Perumahan	23%
Transport & infrastructure Pengangkutan & infrastruktur	6.4%
Institutional & community facilities Institusi & kemudahan masyarakat	6.1%
Open space & recreation Tanah lapang & rekreasi	3.2%
Vacant land Tanah kosong	2.5%
Water bodies Badan air	0.7%
Forest & agriculture Hutan & pertanian	0.6%
Not mapped Often housing or small lots without a land-use tag	34%

MAN-MADE FEATURES & UTILITIES

Street furniture and utilities mapped in OpenStreetMap within 250 m. Many are not mapped in Malaysia, so tick what you find on site.

FEATURE	COUNT	NEAREST
Transformer / substation	1	173 m
Bus stop	2	227 m
Sidewalk	11	22 m
Public toilet	1	36 m

On-site checklist

STREET LIGHTING AT NIGHT

NOT CHECKED

NOTES

–

LANDMARKS & HERITAGE

Landmarks within 1.5 km that give the area its identity. Short descriptions come from Wikipedia where available.

STREET LAMPS · 100 M	NEAREST FIRE HYDRANT	CROSSINGS · 250 M
none mapped	not mapped	0

Natural & recreational

Titiwangsa Lake Park — 1.7 km NE
Park · Titiwangsa Lake Park is an urban park in Titiwangsa, Kuala Lumpur, Malaysia.

Laman Kampong Bharu — 434 m SE
Garden

Laman Sultan Ismail — 616 m SW
Park

Laman Medan Tuanku — 643 m S
Park

Laman Raja Abdullah — 649 m S
Garden

Historical & heritage

National Visual Arts Gallery — 1.2 km NE
Landmark · The National Art Gallery of Malaysia is a public art gallery in Kuala Lumpur, Malaysia.

Bank Negara Malaysia Museum and Art Gallery — 1.3 km SW
Museum · Muzium dan Galeri Seni Bank Negara Malaysia ialah muzium di Kuala Lumpur, Malaysia dan telah dibuka pada 5 April 1989.

Petronas Gallery — 1.5 km SE
Landmark · The Petronas Gallery is a contemporary art gallery established in 1993 by the Malaysian multinational company Petronas to promote arts and culture.

Saint John's Institution — 1.6 km S
Historic school · St.

Muzium Bioperubatan — 462 m N
Museum

Religious & cultural

Guru Nanak Darbar Tatt Khalsa Diwan Selangor — 26 m SW
Gurdwara

Surau Arrihlah — 76 m E
Mosque / surau

Kwong Hock Tyng — 146 m N
Buddhist temple

Hoeh Beng Buddhist Temple — 169 m NW
Buddhist temple

Masjid Jamek Pakistan — 292 m N
Mosque / surau

Attractions & tourism

Saloma Link — 901 m SE
Attraction · Saloma Link is a 69 metres (226 ft) combined pedestrian and bicyclist bridge across the Klang River in Kuala Lumpur.

KL Forest Eco-Park — 1.3 km S
Attraction · Bukit Nanas is a small hill in Kuala Lumpur, Malaysia.

Kuala Lumpur Tower — 1.3 km S
Attraction · The Kuala Lumpur Tower, colloquially referred to as KL Tower, is a 421-meter-tall (1,381-foot) telecommunication tower in Kuala Lumpur, Malaysia.

Petronas Towers — 1.5 km SE
Attraction · 1999 · The Petronas Towers, also known as the Petronas Twin Towers and colloquially the KLCC Twin Towers, are an interlinked pair of 88-storey supertall skyscrapers in Kuala Lumpur, Ma...

Upside Down House — 1.5 km S
Attraction

ARCHITECTURAL CHARACTER

Record the character of the buildings around the site so your design can respond to it.

Building types

Architectural styles

Roof forms

Windows

Doors

Materials

Typical height

COLOUR SCHEME

NOTES

–

PEOPLE & CULTURE

Who uses the area and how. Enter figures from DOSM census data for the district, or your own survey.

Population pattern (%)

SOURCE

–

Festivals & traditions

Merdeka Day Malaysia Day

INTANGIBLE CULTURE & SOCIAL ISSUES

–

Site circulation

PUBLIC TRANSPORT · BUS STOPS & STATIONS WITHIN 800 M

Chow Kit 24 — 227 m
3 min walk · Routes HOP

Pasar Chow Kit — 227 m
3 min walk · Routes 100, 173, 200, GOKL-03

Masjid Jamek Kampung Bharu — 292 m
4 min walk · Routes GOKL-04

Hotel Putra Muda — 344 m
4 min walk · route numbers not mapped in OpenStreetMap

Institut Penyelidkan Perubatan — 372 m
5 min walk · Routes GOKL-04

Bus stop — 373 m
5 min walk · route numbers not mapped in OpenStreetMap

Bus stop — 391 m
5 min walk · route numbers not mapped in OpenStreetMap

Chow Kit — 393 m
5 min walk · route numbers not mapped in OpenStreetMap

Sri Amar — 404 m
5 min walk · Routes 100, 173, 200, GOKL-03

Sekolah Khas Kampung Bharu — 406 m
5 min walk · Routes GOKL-04

Monorel Chow Kit — 407 m
5 min walk · Routes 100, GOKL-03

Wisma RAH — 417 m
5 min walk · route numbers not mapped in OpenStreetMap

PEDESTRIAN FLOW · WHERE PEOPLE WALK IN FROM

Bus stop — 227 m
Chow Kit 24 · 3 min walk, arriving from the west

School / education — 234 m
SK Kampung Bharu · 3 min walk, arriving from the south-east

VEHICLE ACCESS

SUGGESTED ENTRANCE
Unnamed road (E side)

SUGGESTED EXIT
Lorong Raja Bot

AVG. DRIVE IN
6 min from 1.6 km

CANDIDATE GATES

- **Unnamed road (E side)** — Entrance
  E side · in 6 min · out 5 min (average of 4 directions)
- **Lorong Raja Bot** — Exit
  N side · in 6 min · out 5 min (average of 4 directions)
- **Jalan Raja Alang**
  S side · in 6 min · out 5 min (average of 4 directions)
- **Unnamed road (SW side)**
  SW side · in 6 min · out 5 min (average of 4 directions)
- **Unnamed road (NW side)**
  NW side · in 6 min · out 5 min (average of 4 directions)
- **Unnamed road (W side)**
  W side · in 7 min · out 5 min (average of 4 directions)

ARRIVALS & DEPARTURES BY DIRECTION

- **From the north** — 5 min
  3.5 km in · leaving 3 min
- **From the east** — 4 min
  2.3 km in · leaving 5 min
- **From the south** — 6 min
  3.1 km in · leaving 6 min
- **From the west** — 9 min
  6.2 km in · leaving 4 min

DESIGN NOTES

- The entrance on Unnamed road (E side) avoids the busiest roads, which makes turning in safer.
- Separate entrance and exit gates reduce queues at the gate. Link them with a one-way internal road.
- Keep gates at least 50 m from road junctions and away from bus stops; confirm spacing with JKR and the local authority.
- Walking from Chow Kit 24 takes 6 min (467 m). Put the pedestrian entrance on this side, apart from the car gate.
- Use Jalan Raja Alang for service, loading and refuse collection to keep trucks away from visitors.

Routing by OSRM on OpenStreetMap data, assuming free-flow traffic. Draw your site boundary first for gates placed along its edges. Confirm access points with JKR and the local authority.

ROAD INVENTORY

Roads within 250 m. Lanes and width come from OpenStreetMap where mapped; otherwise they are estimated (3.0–3.5 m per lane) and marked *est.* Measure on site to confirm.

ROAD	TYPE	FLOW	LANES	WIDTH	PATH	AWAY
Service road	Service	2-way	2 est.	6.0 m est.	?	1 m
Lorong Raja Bot Minor road	Local	1-way	1 est.	3.0 m est.	?	17 m
Jalan Raja Alang Collector road	Secondary	way	2	6.5 m est.	?	70 m
Jalan Raja Bot Minor road	Local	1-way	1 est.	3.0 m est.	?	108 m
Jalan Raja Bot Residential street	Local	2-way	2 est.	6.0 m est.	?	112 m
Lorong Haji Hussein 3 Minor road	Local	1-way	1 est.	3.0 m est.	?	114 m
Jalan Raja Bot Service road	Service	1-way	1 est.	3.0 m est.	?	176 m
Jalan Haji Hussein Service road	Service	1-way	1 est.	3.0 m est.	?	177 m
Lorong Haji Hussein 1 Minor road	Local	1-way	1 est.	3.0 m est.	?	186 m
Lorong Kampung Periuk Service road	Service	2-way	2 est.	6.0 m est.	?	188 m

TRAFFIC DENSITY

Record what you observe at each time of day, or start from a suggestion based on what is around the site.

TIME	WEEKDAY	WEEKEND
8 AM – 12 PM	—	—
12 – 4 PM	—	—
4 – 8 PM	—	—

TRAVEL INFORMATION

Nearest key facilities: hospital, police, fire station, rail and bus terminals within 3 km; schools, clinics and post offices within 1.5 km. Distance and driving time follow the road network (free-flow traffic); walking time assumes 80 m per minute along the same route.

FACILITY	DISTANCE	CAR	WALK
Hospital Al-Islam Specialist Hospital	910 m	3 min	11 min
Health clinic Pusat Dialisis Aiman	958 m	3 min	12 min
Police station Pondok Polis Jalan Raja Bot	344 m	1 min	4 min
Fire & rescue station Titiwangsa Fire and Rescue Station	745 m	3 min	9 min
Railway station (KTM / LRT / MRT) Chow Kit	742 m	2 min	9 min
Bus terminal Pekeliling Bus Terminal	2.0 km	4 min	25 min
School SK Kampung Bharu	1.5 km	4 min	18 min
College / university Universiti Utara Malaysia Kampus Kuala Lumpur	889 m	3 min	11 min
Post office Pos Malaysia	1.5 km	3 min	19 min
Town hall / council Kuala Lumpur City Hall	3.2 km	7 min	40 min

Nearby car parks

CAR PARK	TYPE	BAYS	WALK
Car park 36 m NW	Open	?	1 min
Car park 83 m SE	Open	?	1 min
Car park 97 m SW	Open	?	1 min
Car park 206 m NE	Open	?	3 min
Car park 233 m N	Open	?	3 min
Car park 255 m SW	Open	?	3 min

Parking provision for the proposed building

CAR BAYS	OKU BAYS	MOTORCYCLE · BICYCLE
16	1	4 · 2

SURFACE PARKING AREA (WITH AISLES)
~444 m²

Standard bay sizes

BAY	SIZE	NOTE
Car	2.5 m × 5.0 m	Aisle 6.0 m for 90° parking
Accessible (OKU)	3.6 m × 5.0 m	Includes a 1.2 m side transfer zone; nearest the entrance
Motorcycle	1.0 m × 2.25 m	Group near the entrance, covered if possible
Bicycle	0.6 m × 1.8 m	Rack in a secure, overlooked spot
Loading bay	3.5 m × 8.0 m	For deliveries and refuse collection

Rates are typical planning figures for early design. Your local authority's parking guideline sets the actual provision; accessible (OKU) bays follow MS 1184.

Summary & design response

SUN

At noon the sun is to the north of the site from 29 Mar to 14 Sep, and to the south for the rest of the year.

→ Both north and south façades need horizontal overhangs. They are much easier to shade than east and west façades.

SUN

East and west façades receive about 2.1× more direct sun than north and south. The west façade is hit when the air is hottest.

→ Orient the long axis of the building east–west. Minimise west-facing windows; use vertical fins, double walls, or service zones (stairs, toilets, stores) on the west side.

WIND

Prevailing wind in the Northeast Monsoon comes from the north-east (1.3 m/s); in the Southwest Monsoon from the north-east (1.5 m/s).

→ Place main openings facing north-east and north-east for cross ventilation. Avoid blocks that shield the wind path.

WIND

During the Southwest Monsoon, local wind comes from the north-east, not from the south-west like the regional monsoon.

→ Terrain, tall buildings and land–sea breezes change local wind. Confirm on your site visit (watch trees, flags, smoke) before fixing the orientation of openings.

WIND

Mean wind speed is low (1.4 m/s) with 8% calm hours.

→ Natural ventilation needs help: stack effect, high ceilings, high–low openings, courtyards and ceiling fans.

RAIN

3,278 mm of rain a year over 286 rain days; wettest month is Dec.

→ Pitched roofs with wide overhangs, covered walkways and high-capacity drains. Consider a rainwater harvesting system.

HEAT

Mean daily maximum reaches 31.5 °C with 82% mean humidity. About 13% of hours in the year reach 30 °C or more.

→ Prioritise shading, insulated and ventilated roofs, lightweight materials for homes, and landscaping to cool the surrounding air.

TERRAIN

Slope at the site is 3.9% (gentle); 31 m height difference across 800 m. Runoff flows to the south-east.

→ Use the level change (split levels, terraces) and place drainage on the south-east side.

CONTEXT

6 of 6 basic amenity types are within a 5-minute walk (400 m).

→ Walkable site. Connect the main entrance to existing pedestrian routes.

TRANSIT

Nearest public transport: Chow Kit 24, 227 m (3 min walk).

→ Put the pedestrian entrance on this side, with a covered walkway.

NOISE

Main noise source: Primary road (primary road), 362 m to the north-west. Estimated ~57 dB(A).

→ Add a buffer zone (trees, landscaped walls), put service rooms or parking toward the road, and quiet spaces on the far side.

WATER

Water body nearby: Sungai Bunus, 452 m from the site.

→ Potential for views and waterfront space, but check river reserves and flood risk.

ACCESS

Suggested car entrance from Unnamed road (E side); exit onto Lorong Raja Bot. Average drive in from four directions: 6 min.

→ Keep gates 50 m or more from junctions, separate the pedestrian entrance from the car gate, and put service access on the quietest road.

BUS

7 bus stops within a 5-minute walk (400 m). Nearest: Chow Kit 24, 227 m, served by HOP. Routes within 400 m: HOP, 100, 173, 200, GOKL-03, GOKL-04. Nearest rail station: Chow Kit, 393 m.

→ Put the pedestrian entrance and a covered walkway toward the nearest stop; add a sheltered drop-off/waiting area.

SMELL

Possible bad smell source to the south-east: Raja Alang Market, 97 m away.

→ Mostly downwind of the site; keep refuse and loading areas on this side.

SMELL

Possible bad smell source to the west: Chow Kit Market, 123 m away.

→ Mostly downwind of the site; keep refuse and loading areas on this side.

LEGAL

Fire engine access (UBBL 140): Lorong Raja Bot: about 3.0 m, less than 6 m. Provide a fire appliance access road within the site.

→ Resolve this before the design stage; confirm with the local authority and Bomba.

WALKWAY

No footpath is mapped along Lorong Raja Bot (one-way, 1 lane).

→ Provide a covered pedestrian walkway into the site and a safe crossing point; check on site.

IDENTITY

20 landmarks within 1.5 km, including Saloma Link and KL Forest Eco-Park.

→ Frame views and routes toward these landmarks and respond to the local character in form and material.

ZONING

The site sits in an area mapped as institutional & community facilities (Institusi & kemudahan masyarakat).

→ Check that the proposed use is permitted under the local plan (RT / RTD) and whether a change of use is needed.

SWOT ANALYSIS

S Strengths

AUTO

- 6 of 6 basic amenity types are within a 5-minute walk (400 m).
- Nearest public transport: Chow Kit 24, 227 m (3 min walk).
- Suggested car entrance from Unnamed road (E side); exit onto Lorong Raja Bot. Average drive in from four directions: 6 min.
- 7 bus stops within a 5-minute walk (400 m). Nearest: Chow Kit 24, 227 m, served by HOP. Routes within 400 m: HOP, 100, 173, 200, GOKL-03, GOKL-04. Nearest rail station: Chow Kit, 393 m.

W Weaknesses

AUTO

- East and west façades receive about 2.1× more direct sun than north and south. The west façade is hit when the air is hottest.
- During the Southwest Monsoon, local wind comes from the north-east, not from the south-west like the regional monsoon.
- Mean wind speed is low (1.4 m/s) with 8% calm hours.
- No footpath is mapped along Lorong Raja Bot (one-way, 1 lane).

O Opportunities

AUTO

- At noon the sun is to the north of the site from 29 Mar to 14 Sep, and to the south for the rest of the year.
- Prevailing wind in the Northeast Monsoon comes from the north-east (1.3 m/s); in the Southwest Monsoon from the north-east (1.5 m/s).
- Slope at the site is 3.9% (gentle); 31 m height difference across 800 m. Runoff flows to the south-east.
- Water body nearby: Sungai Bunus, 452 m from the site.
- 20 landmarks within 1.5 km, including Saloma Link and KL Forest Eco-Park.
- The site sits in an area mapped as institutional & community facilities (Institusi & kemudahan masyarakat).

T Threats

AUTO

- 3,278 mm of rain a year over 286 rain days; wettest month is Dec.
- Mean daily maximum reaches 31.5 °C with 82% mean humidity. About 13% of hours in the year reach 30 °C or more.
- Main noise source: Primary road (primary road), 362 m to the north-west. Estimated ~57 dB(A).
- Possible bad smell source to the south-east: Raja Alang Market, 97 m away.
- Possible bad smell source to the west: Chow Kit Market, 123 m away.
- Fire engine access (UBBL 140): Lorong Raja Bot: about 3.0 m, less than 6 m. Provide a fire appliance access road within the site.

SITE VISIT NOTES

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Notes and SWOT are saved in this browser only, separately for each site.

Data: map © OpenStreetMap contributors, basemaps and imagery © Esri; climate & elevation from Open-Meteo (ERA5, Copernicus DEM); sun position calculated in the browser. All results are estimates for early-stage study. Verify with a site visit, measured survey and the local authority's planning documents (RTD / RKK).