PROJECT POSITIONING

Kuala Lumpur is located ideally near the western coast of the Malacca Strait and as the heart of Malaysia, is emerging as a world-class city.

The River of Life (ROL) project area covers the confluences of the Batu, Gombak and Klang rivers over a total area of 781 hectares and 63 hectares of water bodies. The site has just under 2 hectares of the river corridor reserved along a **10.7 km stretch of the three rivers** for enhancement to revive the city escape of Kuala Lumpur. The site is within the heart of KL, which holds many cultural and historical destinations as it is the birthplace of the city. It boasts a varied mix of residential, cultural and business districts creating an interesting challenge and lots of potential for future development.
## Project Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Site Area (Sq.m)</td>
<td>sq.m</td>
<td>7,815,630</td>
</tr>
<tr>
<td>River Length (km)</td>
<td>km</td>
<td>10.7</td>
</tr>
<tr>
<td>River Corridor Area sq.m</td>
<td>sq.m</td>
<td>321,175</td>
</tr>
<tr>
<td>Average Width (m)</td>
<td>meter</td>
<td>36</td>
</tr>
<tr>
<td>Water Area</td>
<td>sq.m</td>
<td>186,175</td>
</tr>
<tr>
<td>River reserve (Adjacent Land)</td>
<td>sq.m</td>
<td>194,551</td>
</tr>
<tr>
<td>Softscape in reserve area</td>
<td>sq.m</td>
<td>136,500 (70% of reserve)</td>
</tr>
<tr>
<td>Hardscape in reserve area</td>
<td>sq.m</td>
<td>58,500 (30% of reserve)</td>
</tr>
</tbody>
</table>
RIVER OF LIFE MASTER PLANNING COMPETITION

WHO WAS INVOLVED?

- AJC Planning Consultants Sdn Bhd (Malaysia)
- BDP. (United Kingdom)
- AECOM (United States)
- T. R. Hamzah & Yeang International (Malaysia)
- T.R. Hamzah and Yeang (Malaysia)
- Korea Engineering Consultants Corp. (Korea)

22 Companies invited
5 Short listed
THERE WAS A DROP OF WATER
THE ESSENCE OF WATER
THE RIVER FLOWED
THE WATER GAVE LIFE
GAVE LIFE TO THE FOREST
SOURCE OF KLANG RIVER
GAVE RISE TO THE BUSINESS
THE WATER WAS INTEGRAL IN TIN MINING
BECAME A SOURCE OF LIFE

THE WATER WAS SOURCE OF LIFE FOR PALM PLANTATION
THE RIVER CONNECTED
THE WATER WAS USED IN TRANSPORTATION
THE COLONY ARRIVED ON THE RIVER
THE COLONIAL BUILDINGS WERE BUILT UP AROUND THE CONFLUENCE OF THE RIVER
BUILDING BLOCKS OF A CAPITAL CITY ROADS
KUALA LUMPUR A GLOBAL CITY
A RIVER FORGOTTEN
BACKDOOR OF DEVELOPMENT
A RIVER IS FORGOTTEN
The River of Life

KLANG RIVER - A POEM BY JOHN TIONG

It is a tribute to Selangor State’s most famous river, which runs through Kuala Lumpur, Petaling Jaya, Shah Alam and Klang, among other cities and towns.

I came here to look
For the heart of the city
And thank God found
It in your frantic rush
Out to the Straits of Melaka
Spilling joy and laughter
The way spices and tin were
Sailed out from here years ago

I could hear the riotous tinkling
Sounds you chimed so splendidly
From below the bridge between the
Central Market and Dayabumi
That looms so perfectly up into sky

The rain had stopped and your
Rush was fast, swift, reeling
Waves spiraling and swarming
Onto those at the fore, overzealous
Children hurrying out to field
To have their evening game

I stayed put to savour all
The cheers and good vibes
Your song was spreading
To all of us, the song that said
All the way from the heart of the Peninsula
Have fun, have fun, have fun, just have fun.

Yes, yes, Klang River, I will have fun
Just have fun, come rain or shine
The way you share yours
All around, day and night
Night and day, all the way
Out to the golden Straits

RIVER WILL RECONNECT
CREATE BUSINESS + ENTERTAINMENT + COMMUNITY
WEAVING THE RIVER BACK INTO THE GLOBAL CITY
CONNECT - ACTIVATE - REGENERATE - ENLIVEN
ECO VALLEYS

HABITAT CORRIDOR

WETLAND TREATMENT CELL

GUIDING LIGHT

RIVER OF LIFE

LINK TO LARGER WILDLIFE ZONE

BIO VALLEY - NATURAL

GUIDING LIGHT & EDUCATIONAL GARDENS

URBAN

900% increase in HABITAT AREA
CO-EXISTENCE

WILDERNESS
Retain Undisturbed Environments

FLORA
Create Increased Biodiversity

EDUCATION
Explore + Discover + Interact + Learn

WATER + EARTH
Lithic Train Fresh Water = Brackish Water = Salt Water

FAUNA
Visual Contact Watch + Learn + Protect

TOURISM
Central Market Eros Center Heritage Quarter Law Courts Terrace

HUMANS
Lifestyle of the Healthy & Sustainable (LH35)

ATTRACTIONS
Encourage Return Visitation

BIO 5
* Quay Walk * Beauty Farmer’s Market * Board, Field Boulevard * Potential Development Areas * Adoptive Reserve

up to 7 MwH/year of CLEAN ENERGY
100 YEARS FOREST

EXISTING
/ separated and disconnected

10 YEARS
/ establish locations for urban forest
/ aim to integrate fragments of local vegetation
/ focus on mixed species environmental plantings

20 YEARS
/ link the remnant vegetation pocket with corridors of urban forest

50 YEARS
/ establish the fully integrated corridors

100 YEARS
/ maintain the 100 years forest and returning the true “RIVER of LIFE”

+20 FOOTBALL FIELDS increase in GREEN AREA
FLOOD MITIGATION

- River Widening
- Additional Water Bodies
- River Deepening

Before

After

+30% in water capacity to mitigate floods
ECOLOGICAL MANAGEMENT
RIPARIAN ECOSYSTEM RESTORATION

WITHOUT RIPARIAN VEGETATION
/ lack of habitat
/ lack of food and shelter
/ algal growth stimulated by lack of nutrient run off
/ increased soil erosion, sedimentation, and river bank failure
/ decreased water quality

WITH RIPARIAN VEGETATION

- canopy provides shade and protection to animals
- leaves and fruits provide food for terrestrial and aquatic animals
- hollows in logs and branches provide habitat for terrestrial and aquatic animals
- birds and bats in the riparian corridor eat insects in adjacent farmland
- Plants help filter contaminants, stabilize river bank and reduce the volume and velocity of water entering the river
RIVER OF LIFE
DISTRICT CHARACTER
DISTRICT CHARACTERS

1. Kampong Puah + Titiwangsa
2. Pekeliling + PWTC
3. City Hall + Kampong Baru + City Centre
4. Masjid Jamek
5. KL Sentral + Brickfields + Mid-Valley
River of Life – One Malaysia Park, Kuala Lumpur, Malaysia

Before

After
**DEEP WATER ZONE**
Further filtrate and purify the stormwater.

**WETLAND ZONE**
Remove fine colloidal particles and dissolved contaminants.

**EPHEMERAL ZONE**
First stage of cleaning the stormwater through active biological uptake and water filtration.

**PRE-TREATMENT ZONE**
Pre-treatment temporary retention and a reduction of stormwater flow velocity to promote the settling of particles by gravity.

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**GOMBAK RIVER**

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**FLOW**

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**FOREST**

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**DEEP WATER**

---

**REED BED 2**

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**FLOATING WETLAND**

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**REED BED 1**

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**LOTUS POND**

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**SEDIMENTATION POND**
River of Life – One Malaysia Park, Kuala Lumpur, Malaysia

PRELIMINARY SCHEMATIC DESIGN PLAN
ONE MALAYSIA PARK

LEGEND:
1. Fern garden
2. Ramp from underground connection
3. Bridge
4. Cafe
5. Outdoor dining area
6. Education gardens
7. Tree grove with seating
8. Guiding light
9. Viewing deck
10. Lower terraces
11. Multi-functional lawn
12. Pedestrian / cyclist bridge
13. Plaza
14. Shelter structures
15. Education play area
16. Viewing deck with pavilion
17. Urban forest
18. Field of flowering shrubs
19. Lower level walkway
20. Gabion Walls
21. Car parking
22. EB Titiwangsa
23. Perumahan Awam Sri Perak
24. EB Tower
Education Gardens
ZONE 1. EDUCATION GARDENS
DETAIL PLAN

LEGEND:
1. Signage
2. Fern garden
3. Pathway
4. Sediment pond
5. Lotus pond
6. Reed bed 1
7. Reed bed 2
8. Wetland
9. Butterfly garden
10. Habitat island (frogs)
11. Dragonfly garden
12. Deep water zone (fish pond)
13. Open water
14. Water cascade
15. Steps
16. Bridge
17. Boardwalk
ZONE 1. EDUCATION GARDENS
VIEW OF EDUCATION GARDENS - LOTUS POND
The drain water flowing in the existing drain is the main water resource for the wetland. The proposed transverse weir diverts a portion of drain water, passes through the proposed tapping culvert and flows into the underground tank. Filtration of sediments and pollutants, absorption of oil and grease, and removal of odour take place inside the underground tank before the water flows out into the wetland. Excess water in the underground tank will flow through overflow culvert and back to the existing drain.
ZONE 1. EDUCATION GARDENS
TRANSVERSE WEIR AND UNDERGROUND TANK

The transverse weir divert water from the existing drain into the proposed tapping culvert. As the water pass through, the grill trash screen filter garbage and other large debris.

The transverse weir divert water from the existing drain into the proposed tapping culvert. As the water pass through, the grill trash screen filter garbage and other large debris.
ZONE 1. EDUCATION GARDENS
LOTUS POND AND REED BED

CROSS SECTION A-A'

- Sedimentation Pond
- Lotus Pond
- Reed Bed
- Reed Bed

Water Depth (1.0 m)
Soil Layer (0.2 m)
Underground Pipe
Water Depth (0.3 m)
Soil Layer (0.4 m)
Underground Pipe
Water Depth (0.3 m)
Soil Layer (0.4 m)

KEY PLAN
ZONE 1. EDUCATION GARDENS
BUTTERFLY GARDEN AND FROG HABITAT
ZONE 1. EDUCATION GARDENS
WETLAND AREA

CROSS SECTION C-C’
ZONE 1. EDUCATION GARDENS

DRAGONFLY GARDEN & FISH POND

Ceriagrion botteri
Eucordulia longipennis
Monochroa vernalis
Thalia geniculata
Hepaticana malayana
Anax guttatus
Anax imperator
Aeshna bipunctata
Agriocnemis femina
Aeshna insignis
Ceriagrion curucubellum
Brachyplax chalybea
Orthetrum testaceum
Neurothemis fluctuans

DRAGONFLY GARDEN
ZONE 1. EDUCATION GARDENS
BUTTERFLY GARDEN AND FROG HABITAT

CROSS SECTION B-B'

Wetland Area
Butterfly Garden
Ramp Up
Frog Habitat

+37.50
+36.50

Soil Layer
(0.4 m)

Water Depth
(0.3 m)

+36.00

KEY PLAN
FLY through

Kuala Lumpur, Malaysia
Client: Dewan Bandaraya Kuala Lumpur (DBKL)
Size: 2.23 ha
Services: Landscape and Urban Master Planning, Economic Feasibility Study, Flood Mitigation and Engineering Services
THANK YOU
TERIMA KASIH