SES I 3 : Community Planning Perspective

“Urban Farming in Kundang Estates”

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27 Sept 2017
Around 30 KM from Kuala Lumpur
Formerly a tin mining area, now surrounded by Fishing Pond, Farm and Plantation.
THE SURROUNDING

Fishing Pond

Farm

Aerial photo from Latar Highway

THE SURROUNDING
An award winning masterplan (MLAA 2016) submitted by Gamuda Land

Smartly planned spaces between residential area and green

4 Themed Parks with facilities

1 Lake Park (1KM jogging track)

Designed walkway/cycling track surrounding the site (3KM)

89 Acres of development, after 30+ version of masterplan.....
THE CONCEPT

Community farm
HEALTHY
KUNDANG TREE
Bousa macrophylla
ORGANIC

KUNDANG TREE, ALSO KNOWN AS KUHANG TREE, IS A SPECIES OF THE MAGNOLIACEAE FAMILY. THE TREE IS CHARACTERIZED BY ITS LEAFY BRANCHES, WHICH CAN BE USED TO MAKE FANCY LEAF CUTTING. THE FRUIT IS SMALL AND SHALLOW, BUT IT IS PRODUCED IN ENORMOUS QUANTITIES. THE FRUIT IS RICH IN VITAMIN C AND CAN BE USED TO IMPROVE THE IMMUNE SYSTEM. THE FRUIT IS ALSO USED TO PREVENT CANCER, LOWER CHOLESTEROL, REGULATE DIABETES, PREVENT INFLAMMATION, AND MANY OTHER HEALTH BENEFITS.

Used as a tea, kundang tree can help cleanse and regulate the body.
Harmony
inseparable between man and nature
The main park where all the interactions happen.
Lover’s Lane

Bird’s bath

Long bench along the green tunnel

Lover’s lane with flower bed

PARK 2 ESPLANADE
Tree House with flying fox and swing attached to the building structure.
Tree House with flying fox and swing attached to the building structure.

Gravel garden loose gravel with clusters of trees, Space for party event or small gathering

Community Farm

Open lawn for kite flying, kick-a-bout area and community gathering

Rock climbing for toddler and teenager

Mini Trampoline with carpet grass
GAMUDA LAND insisted to create a community farm

A. We decided to use **community farm** as one of the platform to generate interactions
B. We want to bring the benefits of Urban Farming to the community:

1. Produces Healthy Organic Food (Residence can choose to eat healthy food)
2. Creates Sense of Belonging (Neighbouring residents, working to develop a sense of togetherness)
3. Respect The Food You Eat (Grow your food and learn to respect them, not wasting them)
4. Provides a Learning Opportunity (Get your hand dirty, learning how to grow, maintain and share)
5. Creating Green Space (Instead of a deserted area, Urban farm do bring life and green to the community)
C. To create a unique design of the farm, we were inspired by the garden maze pattern instead of using the standard row planting.
Adding a Garden Shed – Give shade, storage of equipment and water tank
Playing with walkway materials

Laterite Gravel

Gravel
Creating a compost area for plant to decompose and turn back to nutrient for the plants.
Planter boxes to separate the turfing/walkway area with the planting area. Working on a raise platform will prevent water log on the surface.
## Working with the specialist in planning of the farm

<table>
<thead>
<tr>
<th>No</th>
<th>Item</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cardboard/ Box (not laminated/ no plastic) (400mm x 500mm)</td>
<td>140sqm required (appr. 0.2 sqm each)</td>
<td>350 pcs</td>
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<tr>
<td>2</td>
<td>Dried leaves (brown matter) (fine leaf for eg raintree or yellow flame)</td>
<td>Bag (70litres/bag)</td>
<td>210 bags</td>
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<tr>
<td>3</td>
<td>Grass clippings (green matter) (cut grass)</td>
<td>Bag (70litres/bag)</td>
<td>100 bags</td>
</tr>
<tr>
<td>4</td>
<td>Cow dung (mature and dried)</td>
<td>Bag (70litres/bag)</td>
<td>100 bags</td>
</tr>
<tr>
<td>5</td>
<td>Coarse sand</td>
<td>Bag (70litres/bag)</td>
<td>100 bags</td>
</tr>
<tr>
<td>6</td>
<td>Cocopeat soil (loose type)</td>
<td>Bag (70litres/bag)</td>
<td>100 bags</td>
</tr>
<tr>
<td>7</td>
<td>Compost (recommended Lagenda Madu)</td>
<td>Bag (60litres/bag)</td>
<td>60 bags</td>
</tr>
</tbody>
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Using maintenance debris as planting media and source of nutrients.
Wicking pipe for irrigation

Watering from the bottom up prevents evaporation of surface water

They are self-watering, a full wicking bed should irrigate itself for about a week.
COMMUNITY FARM

Proposed compost area
additional height of planting bed
+215mm on top of proposed planter bed
TOW +430mm

LEGEND
- Outlet of subsoil
  (+250mm above ground)
- Layering of subsoil

Proposed compost area and subsoil

C. Amount of water required
For edibles plant within planting bed = appr. 1100 litres per day
For lawn integrating among the community garden = appr. 1200 litres per day
Artist impression
During Construction
During Construction
After Completion
We planted 24 types of edible plant.
COMMUNITY FARM

Wild Betel Leaf (Daun Kapur)

Lemon Grass (Serai)
COMMUNITY FARM
THANK you