

THE HOUSE AS A FORCE OF EXCELLENT WELL BEING

This is a 144.900m² house on a site of about 578,158m², designed particularly for three members. A father who is a farmer, mother who is a teacher and a daughter who is a student. Covid-19 has shaken the normal way of living and home is now the place where they will be spending most of their time. The need for a cleaner and safer household is now direr than ever before. And this is how this house design responds to this need in this fight against corona virus.

Openings

The front door has a tap, copper coated tap to be specific. This will be used to clean hands before handling the door or entering the interior spaces. Behind the tap there is an elevated perforated wall for aesthetics as well as allowing air flow to keep the tap dry at all times.

Height. The width has been narrowed down to reduce cost of glass. Instead louvres have been used instead. These are in two levels. The lower and higher level to take advantage of stack ventilation as a way of naturally ventilating these spaces. This also allows adequate entry of sunlight which gives vitamin D which is also essential for healthy life (As opposed to artificial lighting)

Rooms

There are two bedrooms, one for parents and the other for the daughter. Adequate space has been given for storage, bed space as well as a table for working/studying as well as online meetings. To make sure sound is blocked, the rooms are situated at the back of the site (south), away from the main road and close to vegetation for fresh air and also as a buffer for noise.

How spaces transform

A movable folding wall demarcates the lounge from the dining. This is to supply extra spaces in case a member gets sick. Folding the wall creates extra bed space.

Materials

Compressed stabilized earth from the same site will be used for construction. Thus leaving the top soil intact to allow growth of plants to consumption as well as ground cover to stop run-off.

All frames, from door to windows are to be copper coated due to its ability to kill bacteria. The floor has a finish of polished concrete to increase cleaning efficiency and it's lower in cost

Lighting/ ventilation and living essentials

Adequate natural light and air is able to circulate in and out of the through the large windows and louvres. For the corridor, a skylight distributes lights across its volume. Taking advantage of the sun, solar panels have proposed as an electricity source to reduce cost of living.

On the same point of living garden space has been kept at the back for crop farming. To maximize the space a 1000mm wide wooden platform run around the wall perimeter, creating more space for potted plants as well as necessitating the interaction of neighbors at the same time observing social distancing.

An Eco-san toilet completes it all as it will provide organic fertilizer for the plants as opposed to inorganic ones that destroy our eco system.