SITE ANALYSIS AND TRACES

INNER VOIDS

HIERARCHY OF VOIDS
A grid of solids and voids consisted of a central courtyard together with a series of voids hollowed out from upper floor used as balconies creates a pleasant flow of open spaces with different levels of opacity, and allows airflow through the building.

STRATEGY

CONSTRUCTION TECHNIQUE

LOCAL MATERIALS.
Stones/gravel are local affordable materials that can be extracted easily from the site itself or not transported far away.

UNIT COMPOSITION (STEEL FRAMES + MESH + STONES).

- The project proposes a modular steel structure consisting of steel frames and beams act to support the bearing load of the wall and roof.
- Mesh net placed around the steel structure act as a wall surface.
- Stones and gravels are inserted inbetween the two mesh surfaces consisting the wall.

MODULAR PLAN.
The modulation of the composition makes an easier and faster implementation process, and gives a flexibility of future expansion according to the inhabitants needs.

SEPARATED STRUCTURAL SYSTEM.
Same construction system but separated from each other (ground and first floor), each floor structural system is dependant/ isolated from the other, the superposition of both typical dependant systems can be highly effective and opens prospects for growth.

BASIC CONSTRUCTION SYSTEM.
Simple construction systems, minimizing the need for advanced and expensive technologies, as will be held by the participation of the local community.

STACKING PRINCIPAL (COMPACT FABRIC)

UNITS TYPOLOGIES.

UNITS PLACED TO FORM INNER COURTYARD.

UNIT COMPOSITION (STEEL FRAMES + MESH + STONES).

UNITS STACKED TOGETHER FORMING STRUCTURAL HULL AROUND THE COURTYARD.

BY FOLLOWING THE MODULE, SEVERAL COMBINED FORMS FORMING A COMPOSITION BLOCK WITH INNER CONNECTED COURTYARDS AND PASSAGES.

TRANSITION OF SPACES (+VE & -VE PRESSURE OF LIGHT EXPOSURE).
Experience of different exposures and transitions between narrow shaded streets and open courtyards.

FABRIC COMPOSITION ACCORDING TO THE MODULE.

FLEXIBILITY OF EXPANSION, SEPARATED STRUCTURAL SYSTEM.