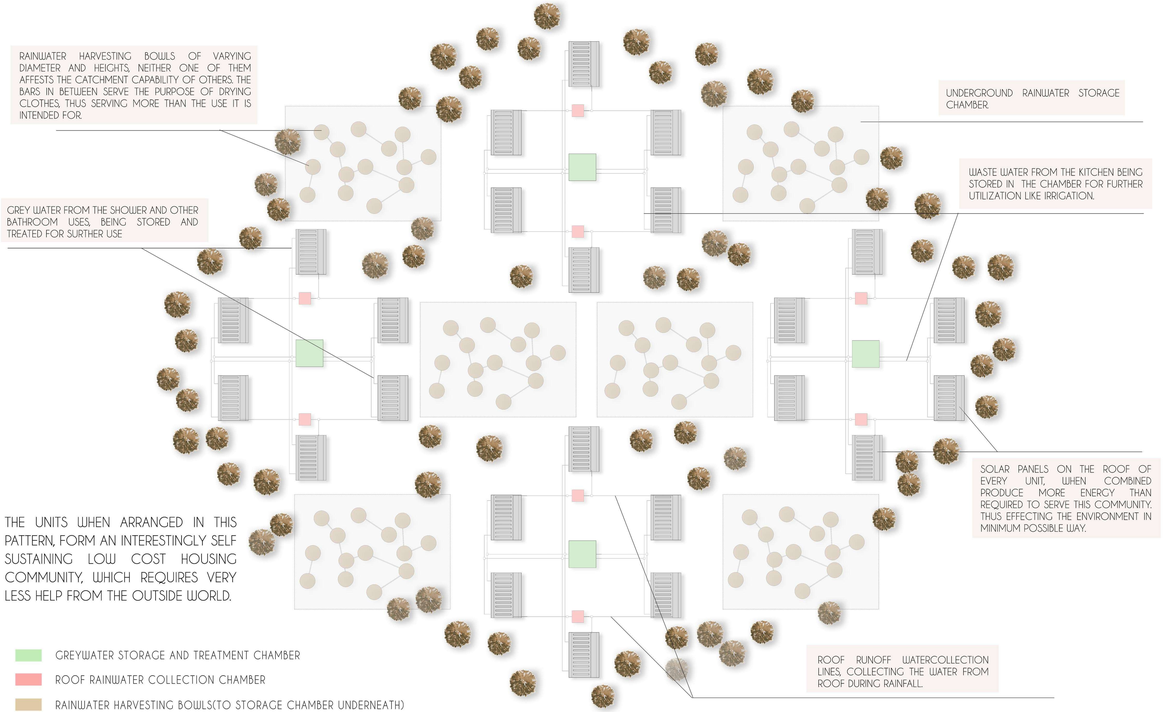
CHAYA SELF SUSTAINING HOUSING

LOW COST HOUSING SCHEME

DESIGN-O-CRATS



THE UNITS WHEN ARRANGED IN THIS PATTERN, FORM AN INTERESTINGLY SELF SUSTAINING LOW COST HOUSING COMMUNITY, WHICH REQUIRES VERY LESS HELP FROM THE OUTSIDE WORLD.

- GREYWATER STORAGE AND TREATMENT CHAMBER
- ROOF RAINWATER COLLECTION CHAMBER
- RAINWATER HARVESTING BOWLS(TO STORAGE CHAMBER UNDERNEATH)
- SOLAR PANEL CARRYING INDIVIDUAL UNITS

SCHEMATIC CLUSTER DEVELOPMENT

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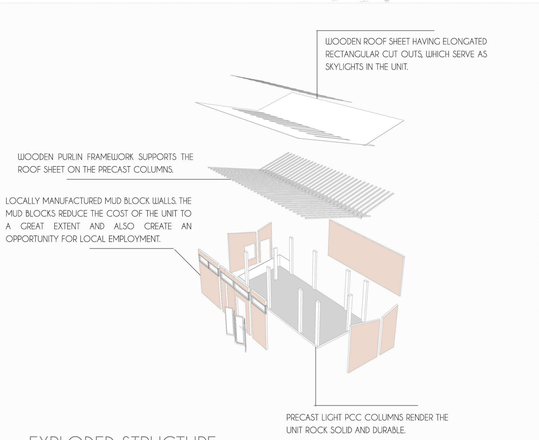
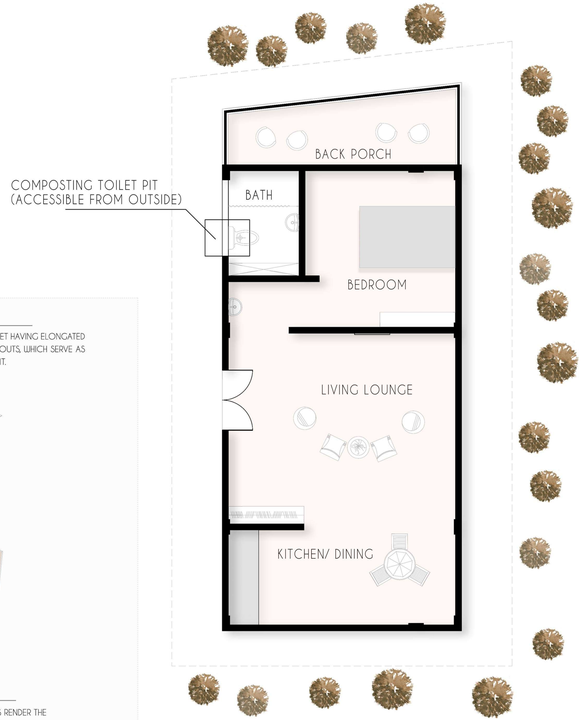
MUD BLOCKS ARE TYPICALLY MADE FROM SOIL AND CONTAIN SOME AMOUNT OF GRAVEL AND SAND TO IMPROVE STRENGTH. THE MUD BLOCKS ACCORDING TO THE LEADING RESEARCHERS IS ENVIRONMENTALLY THE MOST FRIENDLY MATERIAL TO USE AND DISPOSE OFF.
THE MUD BLOCKS NOT ONLY REDUCE THE COST OF THE BUILDING, BUT ALSO CREATE THE EMPLYMENT OPPORTUNITY TO THE LOCAL UNSKILLED LABOUR.

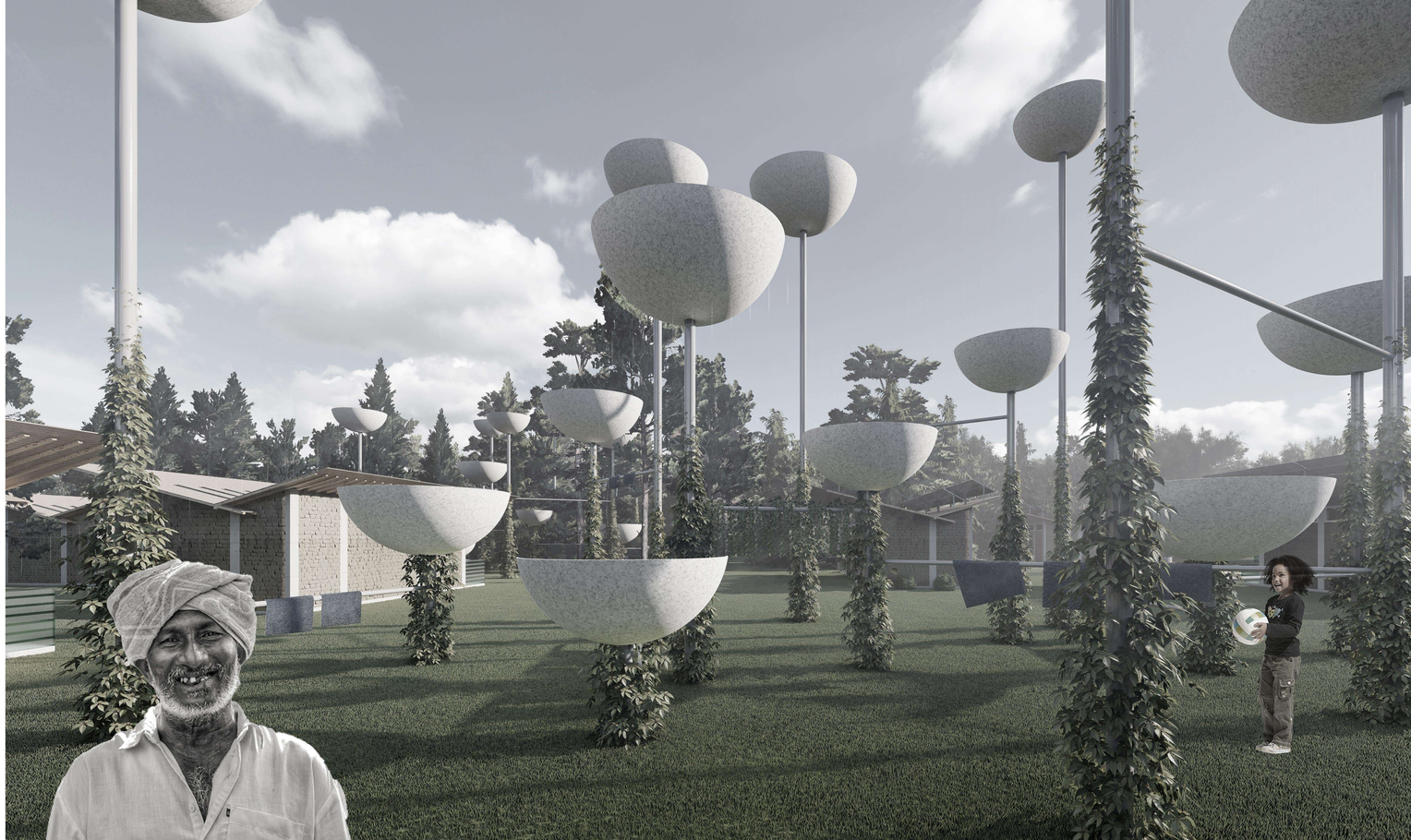
THE PROJECT AIMS TO SET A STANDARD FOR SUSTAINABLE AND EFFICIENT LOW COST HOUSING, SINCE GROWIING POPULATION IS INDEED THE SCARIEST PROBLEM IN INDIA, AND IT IS HERE TO STAY.



EXPLODED STRUCTURE



TYPICAL MODULAR UNIT PLAN



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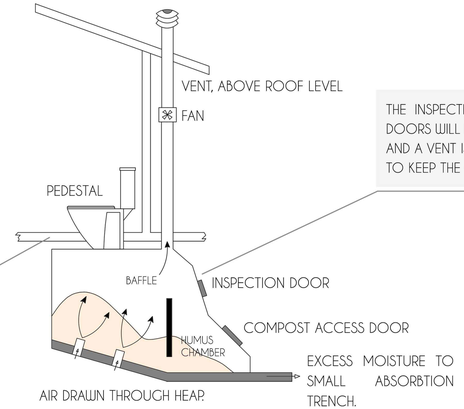
COMPOSTING TOILETS USED IN ALL THE LOW COST HOUSING UNITS, TO SERVE BOTH, THE PURPOSE OF MANUFACTURING THEIR OWN ORGANIC COMPOST FOR THEIR FIELDS OR LANDS, AND ALSO REDUCE THE COST OF DRAINAGE AND SEPTIC TANK FACILITIES FOR THE W.C.



THE INSPECTION AND COMPOST ACCESS DOORS WILL BE PROVIDED ON THE OUTSIDE, AND A VENT IS PROVIDED WITH EXHAUST FAN TO KEEP THE ODOUR OUT OF THE UNIT.

RAINWATER HARVESTING MODULE

MODULAR UNITS