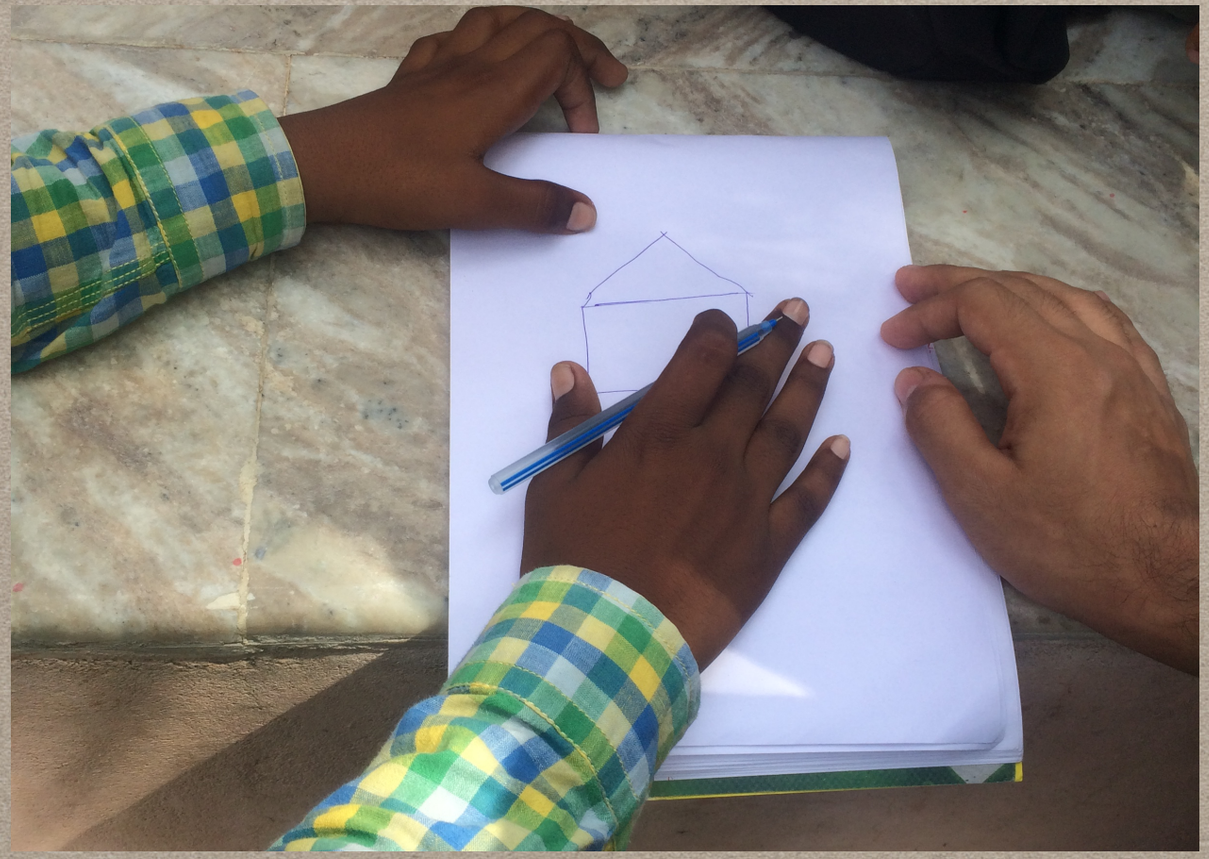
Temporary Shelter for Salt Farmers

“पानी और रहने का, दो चीज़ हो जाए तो खाना तो हम ढूंढ ही लेंगे”

-Guga Bhai



DEFINING THE PROBLEM

The interactions with the Agariya community helped us learn what they need. The team returned from the field visit and conducted a team share to define five problems which were then taken back to the target audience the following day to be sorted. On the basis of the sorting, the problem statement was defined.

Extreme temperatures in the house

Expenditure in buying materials every year

Exteriors and gaps allow water to pass through

The house gets blown away

PROJECT OVERVIEW

Challenge

Design a relatively cool home for the salt farmers such that it reduces the building cost the following year.

Solution

We used positive deviance and built upon a previous architecture that was prevalent before unseasonal rains struck the Rann.

Result

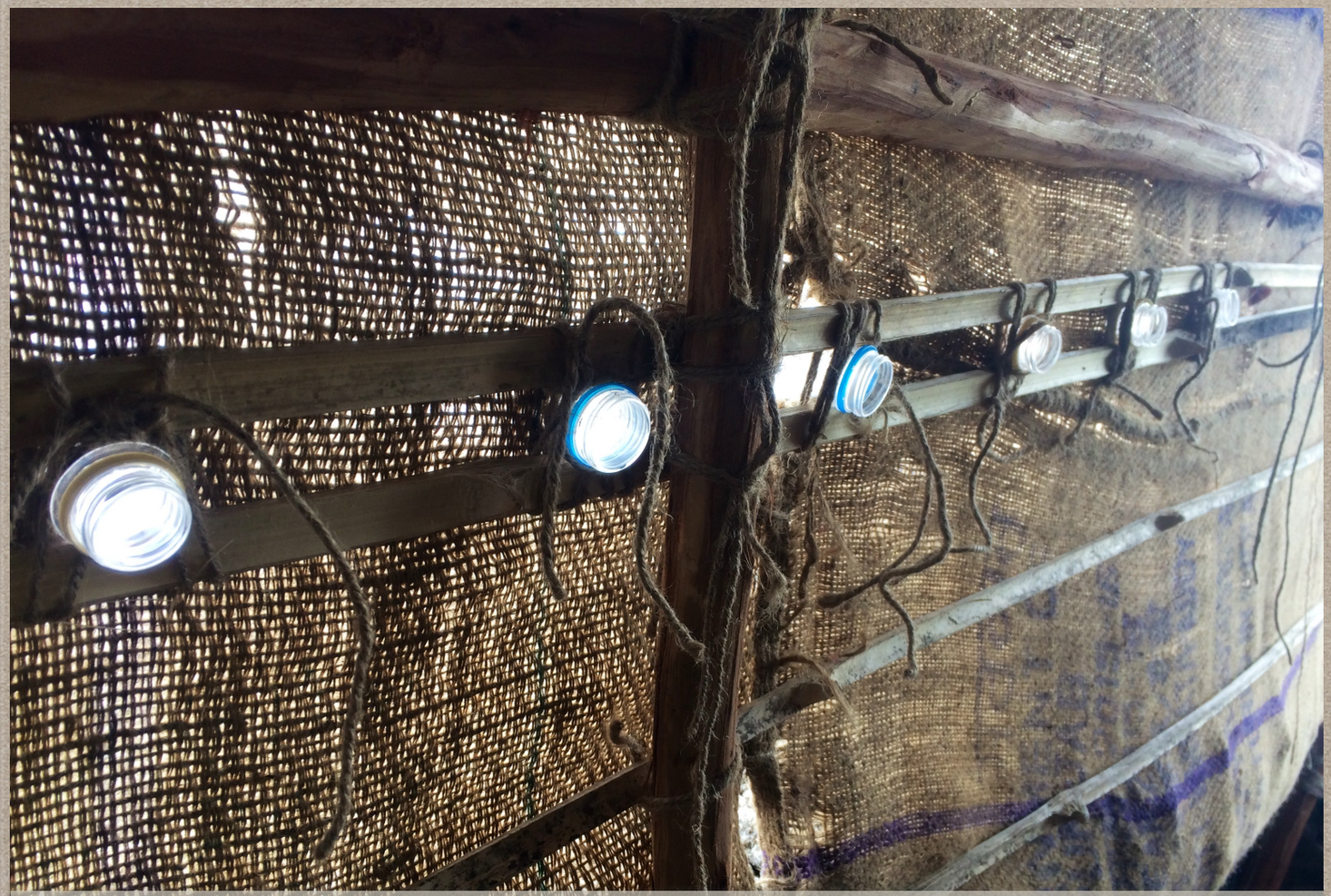
The final prototype was a success in terms of withstanding environmental extremities. A salt farmer accepted it for a home.

PROTOTYPE DEVELOPMENT

To direct rainwater away from the house using mounds of mud

Layering to prevent water from entering into the underground part of the house

PROTOTYPE DEVELOPMENT



To provide cooling by funelling cool air into the house

To provide an escape for the warm air

RANNVELI: RANN KI HAVELI

FULL SCALE PROTOTYPE AT THE LITTLE RANN OF KUTCH

THE ROAD AHEAD

- A system to provide evaporative/conductive cooling by rerouting brine towards the house before it reaches the salt pan.
- A mechanism to harvest drinking water from moisture content in air (evaporation from salt pans).
- A system to collect and reuse rainwater from unseasonal rainfall.

Thank you

-Team Rannveli