

"Raani wants a clean and hygienic surrounding with more opportunities for social interaction and wish to have affordable electricity"
"OUR SOLUTION SHOULD PROVIDE RAANI WITH AFFORDABLE ELECTRICITY WHICH ALSO FACILITIATES IMPROVED SOCIAL INTERACTIONS AND CLEAN, HYGIENIC SURROUNDINGS"



Raani used to live in an informal settlement (slum). Picture Source: dnoindia.com



Raani moved to the Pragati Apartments built by L&T 2.5 years ago. Picture: Ms. Sachie Yoshizumi (22.08.2019)



Will Raani's building be properly maintained or end up as a vertical slum in ten years? Picture: Ms. Sachie Yoshizumi (27.08.2019)

Handwritten notes for Raani's persona: 35 yrs old, Hindu, living in a settlement for nearly 2 years, 2 sons, 2 daughters, 24 in room, no water, no electricity, no waste management, no social interaction, no safety, no hygiene, no clean environment, no social life, no community, no group, no functional, no area, no space in balcony.

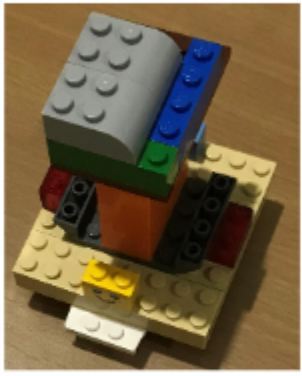


Handwritten notes for Anilina's persona: 25 years old, Muslim, has lived in house for 3 years, living on rent 4000/rent, 3 kids, 1 husband, wife's from UP, not working, husband is auto-rickshaw driver, not in school until 10th grade. Lists likes (affordable rent, living with family) and dislikes (overcrowded small space, no social life, waste management, violence, hygiene, dirty environment, very dark).



Background res
Creating & reiterating PROBLEM STATE
Client meeting

Solution: Integrated Solar Energy and Rain Water Harvesting Systems

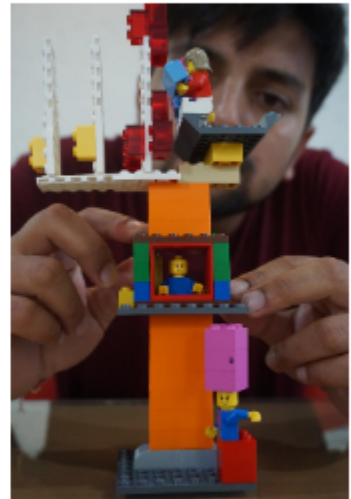


The first solution was a self sustaining SRA building which can generate its own electricity and harvest rain water for maintaining the building.



As a validation exercise, we visited various locations to observe the surroundings and interview residents. Based on their feedback, we refined our solution.

In the refined solution, residents export the solar energy to the grid and some advertisement spots are identified in the high rise part of the building. These bring the society a revenue that could cover the operations and maintenance of the building.



Additionally, as a recommendation for implementing the solution, the residents (especially women) are trained on the various conservation and health benefits, which indirectly increase community forming and social interaction. This would hopefully also lead to motivating residents to take ownership of maintaining their surroundings and building.

OUR LEARNI

- Way of identifying problems (and sol
Different PBL tool: process, interview
Difference between learning
Designing curricular
Analysing the prot perspective

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