

# Green Building Techniques Survey

Chetan j, Chandrugouda, dhanaraj H J, Dhanush D  
(Civil Engineering, Dayanandasagar College of Engineering, Bengaluru)  
Email:[Chetanreddy0905@gmail.com](mailto:Chetanreddy0905@gmail.com)  
[Chandrumalipatil735@gmail.com](mailto:Chandrumalipatil735@gmail.com)  
[Dhanarajhalemane966@mail.com](mailto:Dhanarajhalemane966@mail.com)  
[Dhanushd701@gmail.com](mailto:Dhanushd701@gmail.com)

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## Abstract:

the future of green building technology is full of opportunities for us to undo some of the damage we have done to the planet and environment. Here we are surveying the percentage of people using green building techniques such as rain water harvesting, solar panel system, bio-gas, solar heaters and etc.....

*Keywords* — green building, rain water harvesting, bio-gas.

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## I. INTRODUCTION

By conducting this survey, we here came to know the number of people using green building techniques such as rain water harvesting, solar panel system, bio-gas and etc. its very important to conserve natural resources such as water if we use rain water harvesting system then it helps in storing and save rain water, here, we are surveying about the different green building techniques used by the people. The renovation of an existing building or construction of a new one includes different choices. These choices have big impact on the health and comfort of the occupants using the building, construction costs and environment.

## OBJECTIVE

- To measure the percentage of people using green building techniques.
- Conserve energy and materials by using eco-friendly materials.
- To bring out the awareness to people about green building techniques.

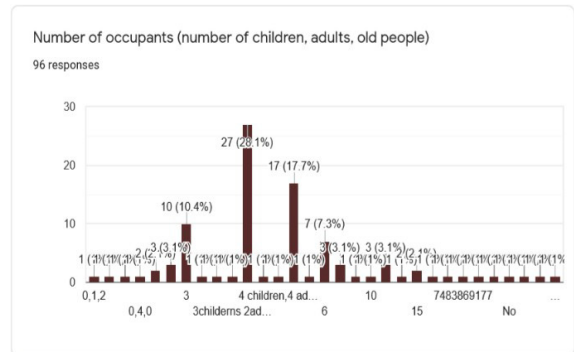
## Methodology

- Email address .....
- Name .....
- Home location .....
- Number of occupants.....
- Type of flooring.....
  - a) Granite b) Marble c) tiles d) cement
- Type of roof.....
  - a) Concrete b) clay tile c) G I sheet d) others

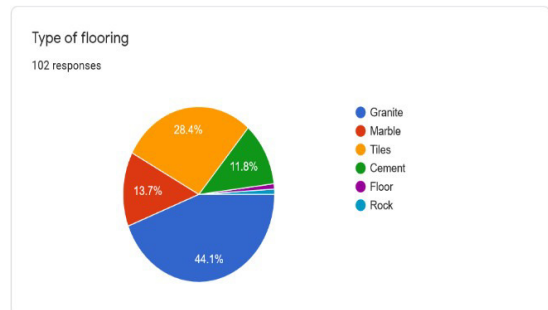
- Do you have borewell .....
  - a) Yes b) No
- Type of construction .....
  - a) Beam-column b) load bearing wall c) others
- Type of brick in construction .....
  - a) Burnt clay bricks b) concrete blocks c) fly ash bricks d) others
- Do you have solarpanels .....
  - a) Yes b) No
- If yes, average electricity bill in summer .....
- If yes, average electricity bill in winter .....
- If no, average electricity bill .....
- Do you use air-conditioner (AC) .....
  - a) Yes b) no
- Source of hot water.....
  - a) Solar heater b) geyser c) others
- Do you use rain water harvesting
  - a) yes b) no
- If yes, average water bill .....
- If no, average water bill.....
- Do you use bio-gas.....
  - a) Yes b) no
- Green cover around building .....
  - a) Yes b) no
- Do you have kitchen garden .....
  - a) Yes b) no
- Do you prepare manure from wet waste water at home.....
  - a) Yes b) No
- Do you prefer.....
  - a) Green building b) regular RCC structure
- Any suggestion for green building .....

### Findings from this survey.

1. The corresponding e-mail addresses were collected in order to have an authenticity over the responses.
2. An overwhelming of 103 responses was received.
3. Number of occupants in home.

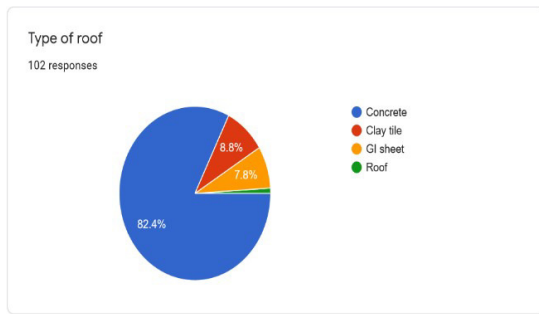


4. According to our survey 44.1% of people use granite for flooring. 28.4% of people use tiles, 13.7% and 11.8% of people use marble and cement respectively.

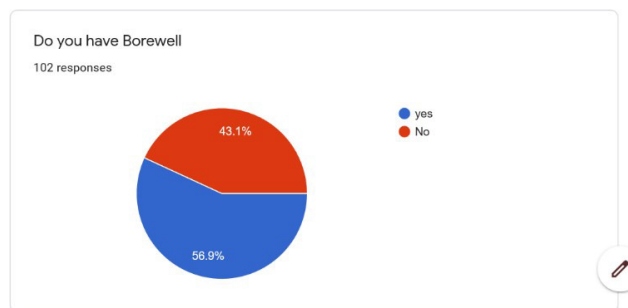


5. Type of roof.
 

Majority of people (82.4%) use concrete as roofing material. Remaining 8.8% and 7.8% of people use clay tile and GI sheet as roofing material .

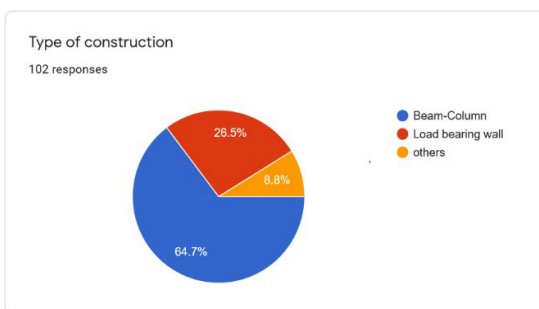


6. 56.9% of people use borewell as the source of water and other 43.1% of people depend on public water supply.



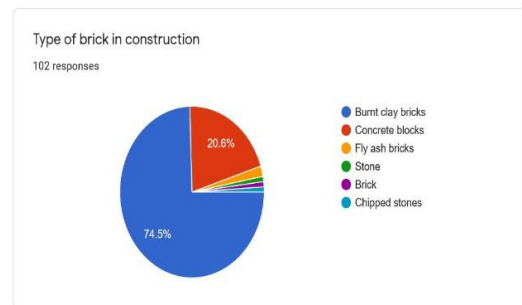
7. Type of construction

Majority of the people prefer (64.7%) Beam-column type of construction. 26.5% people prefer load bearing wall type of construction.

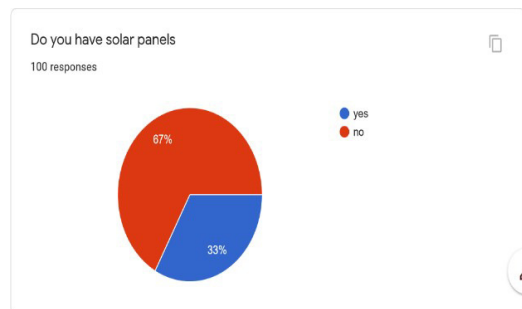


8. Type of brick in construction.

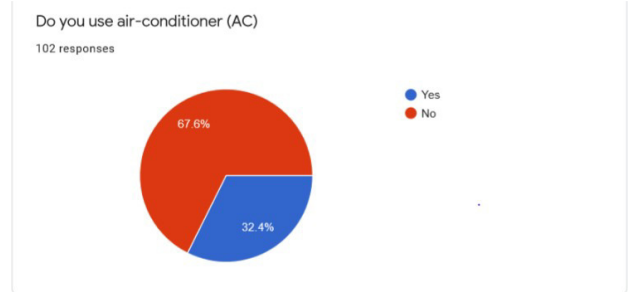
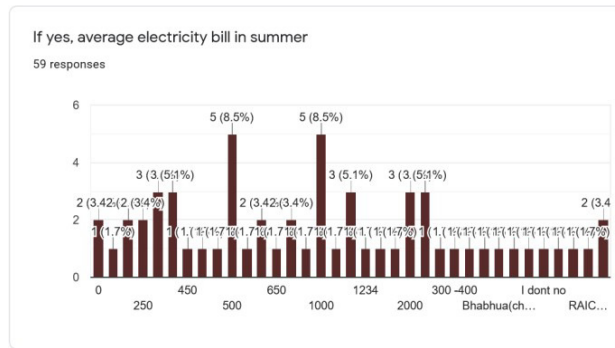
74.5% of people prefer burnt clay bricks as the type of brick in construction and 20.6% of people prefer concrete blocks, from this we came to know that most of the people are unaware about the fly ash bricks which are cheap in cost and also environmental friendly.



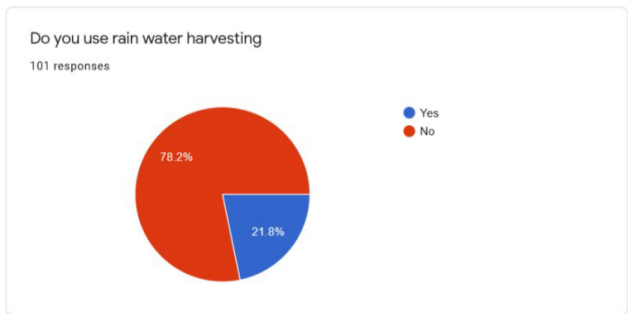
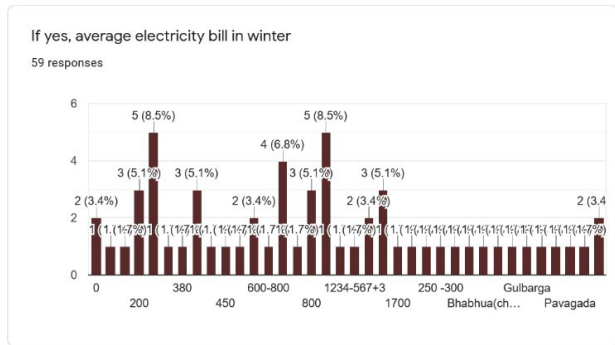
9. only 33% of people are aware about solar panels and 67% of people are not using it and they are unaware about the advantages of using solar panels.



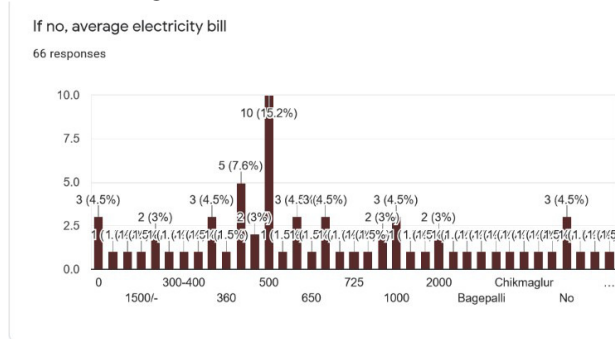
People who use solar panels their average electric charge in summer and winter.



11. here we came to know that 78.2% are not using rain water harvesting system which stores and saves the wastage of rain water.

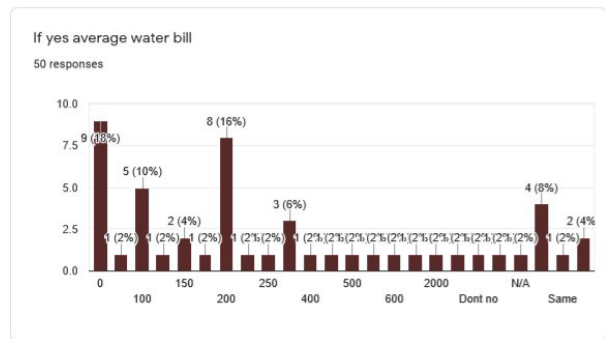


People who do not use solar panels their average electric charge.

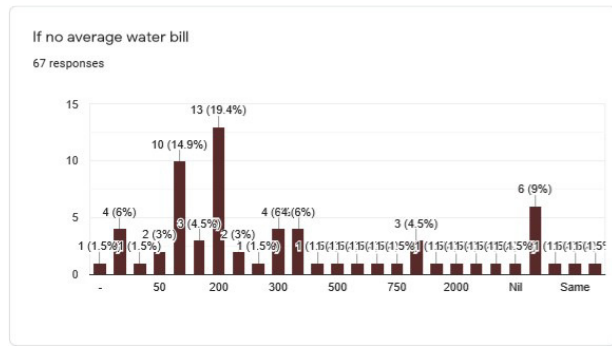


10. 67.6% of people are not using air-conditioner and 32.4% people are using air-conditioner for ventilation.

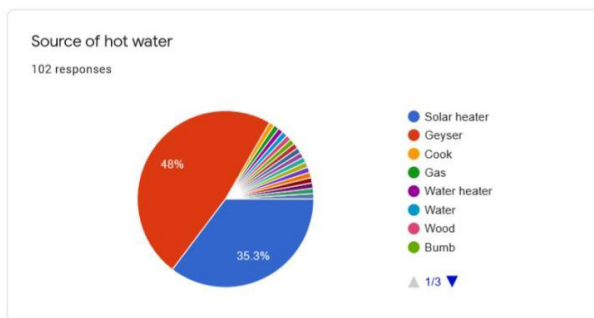
Average water bill with rain water harvesting.



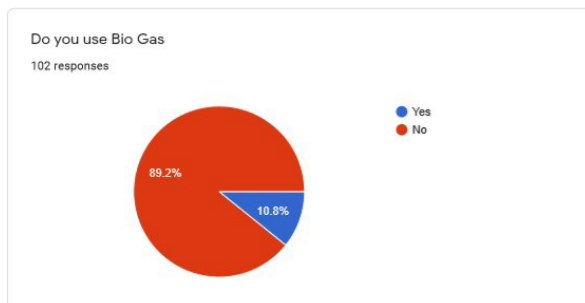
Average water bill without rain water harvesting.



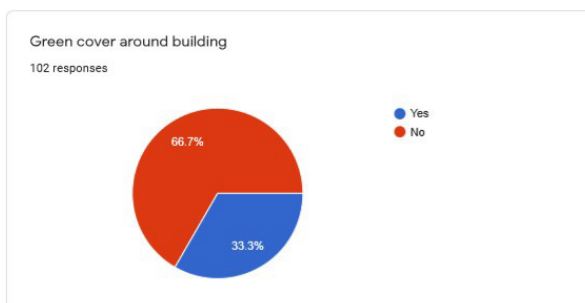
12. source of hot water.



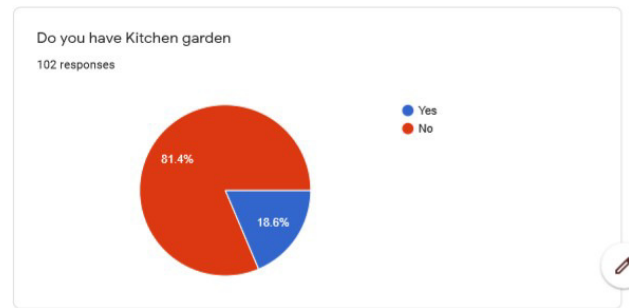
13. number of people using bio-gas.



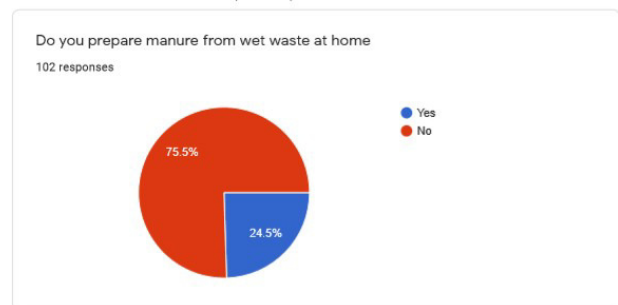
14. number of people using green cover around building.



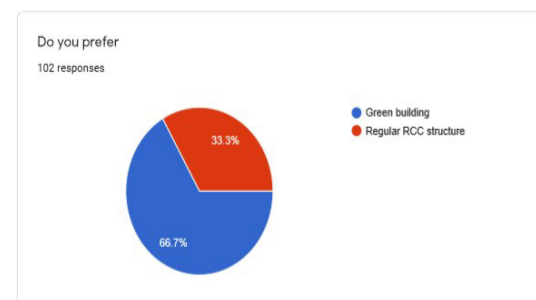
15. kitchen garden



16. only 24.5% of people prepare manure from wet waste at home and 75.5% of people are unaware about it.



17. 66.7% people prefer green building.



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