



Habitat
para la Humanidad®

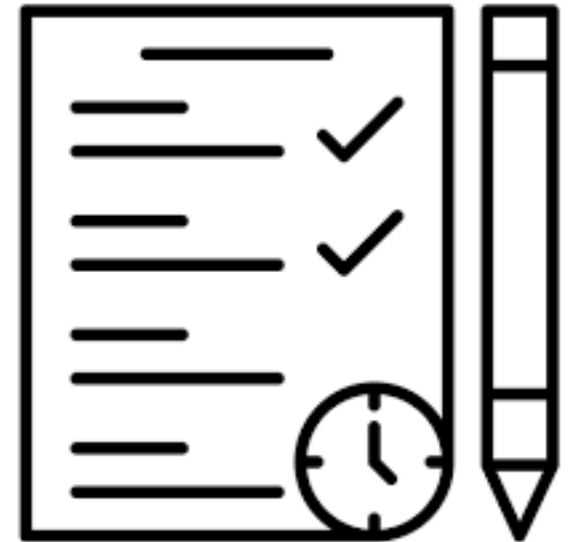
**Centro Terwilliger de
Innovación en Vivienda**

A man with dark curly hair, wearing a grey t-shirt and blue shorts with a 'CABE' logo, is shown in profile, leaning over a brick wall. He is using a trowel to apply a layer of grey mortar to the wall. The background consists of lush green foliage and a utility pole with power lines under a clear sky.

Design the Prototype System SABUC

Agenda

- ✓ Summary of the legal challenges
- ✓ Goal of prototyping SABUC
- ✓ Who is Universidad Autónoma Metropolitana?
- ✓ Process to develop the SABUC System
 - ✓ Review of plans and proposed design of SABUC
 - ✓ Previous physical mockup of the design
 - ✓ Validation of the materials to be used
 - ✓ Prototype assembly
 - ✓ Installation of SABUC technology
 - ✓ Monitoring (Quality Water)
- ✓ Potential beneficiary families
- ✓ Budget





Legal Challenges

- Copyright in Mexico
- Permits in favor of Habitat on the use of SABUC and that these were valid in Mexico
- Have the legal documents validated so that the University can start the work

Objective

- Validate the functionalities of the SABUC technology design in the Innocentive Challenge with low-income families in urban areas of Mexico City and/or the State of Mexico,
- Consider the necessary actions for the use, installation, and distribution of the possible prototype to be validated with low-income families.

innocentive

wazoku



Recolección de agua asequible para hogares de bajos ingresos en áreas urbanas

- + Burbujas de aire solar
- + Contenedor IBC
- + Luz ultravioleta
- + Filtro de carbón



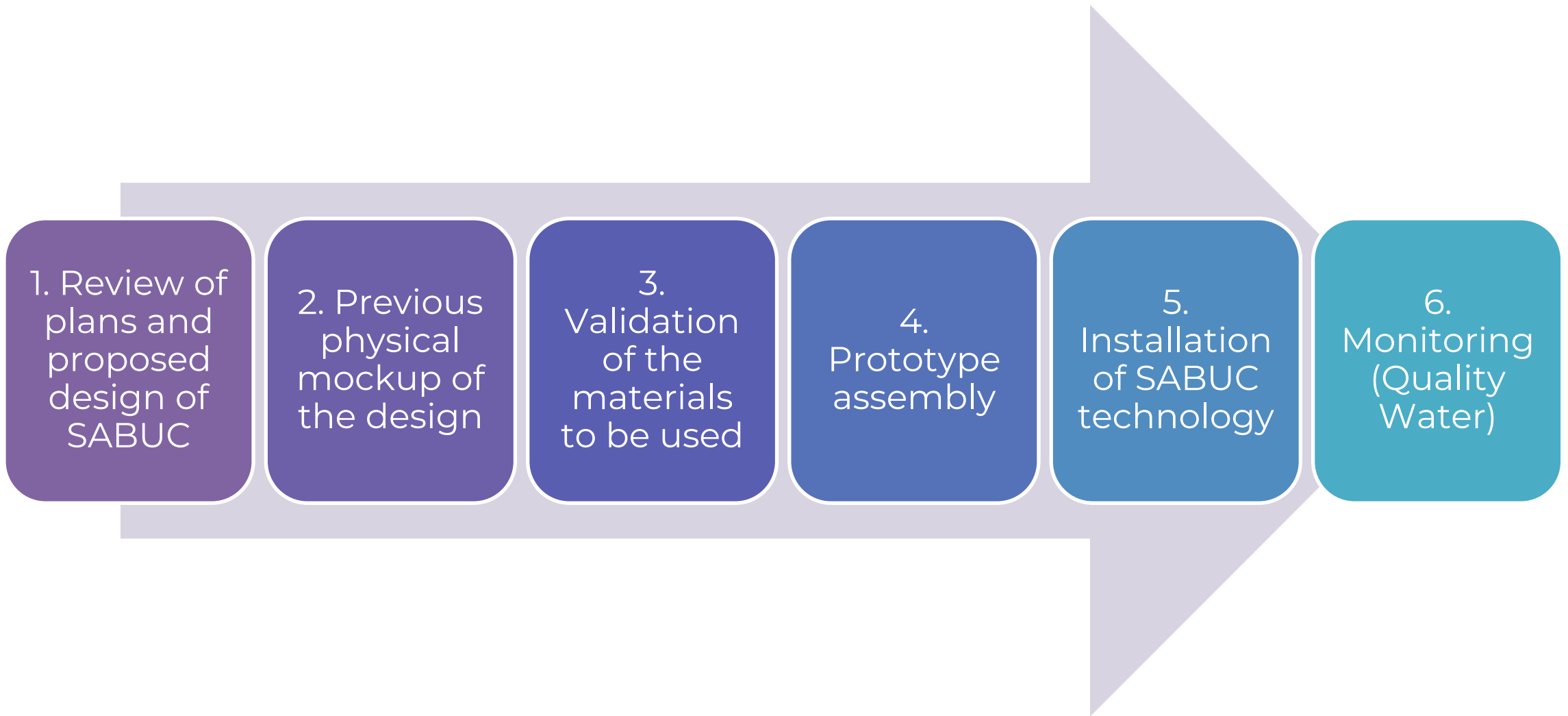
Who is the “Universidad Autónoma Metropolitana”?

It seeks to guide and daily efforts within communities, being the starting point for the strategic planning process within the education and research development plans.

- ✓ 48 years working in Mexico
- ✓ We are going to work with the Research Department
- ✓ The university has a specialized network that works with water technologies. Its called “Red AgUAM”



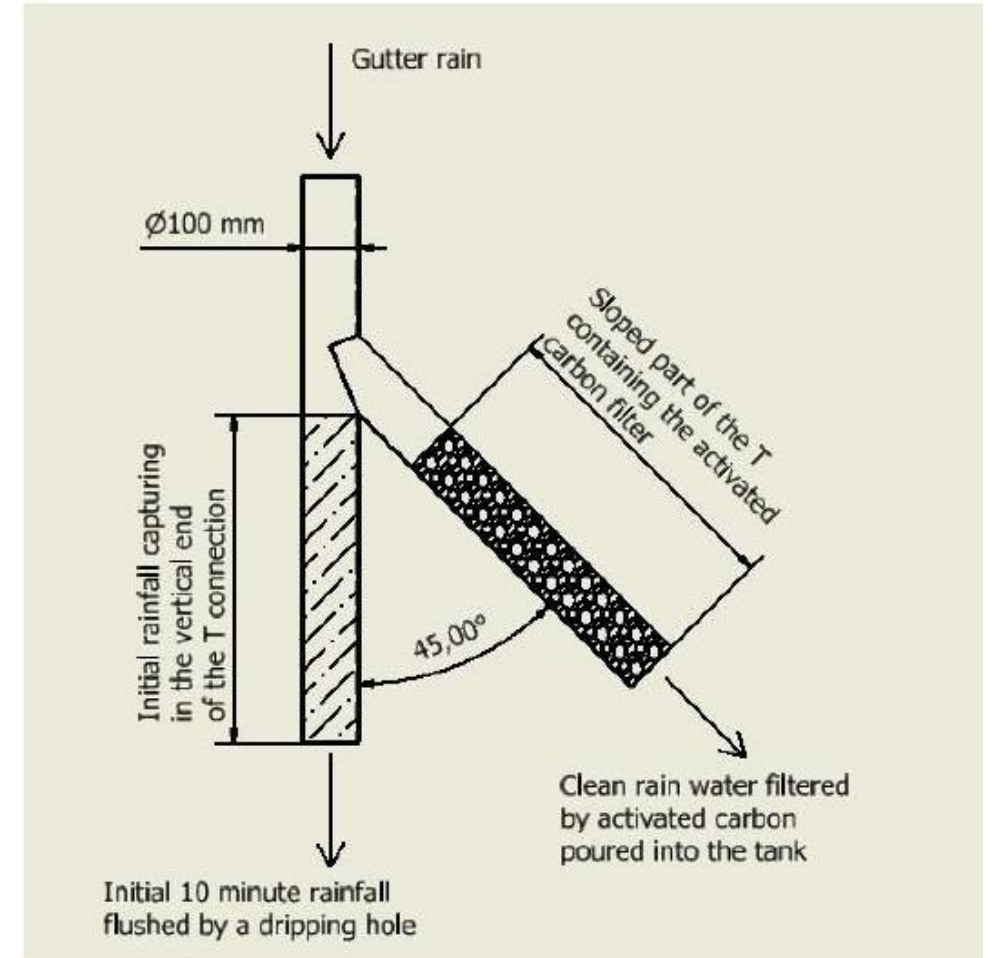
Process to develop the SABUC System



Review of plans and proposed design of SABUC

Review the plans provided by the winner of the Innocentive challenge, to validate that they can be adapted to the context of the house, and also to the assembly process of the prototype. If necessary, add or modify some type of material that may not be available or work during the "stage-model"

Note. The delivered design will be respected as much as possible.

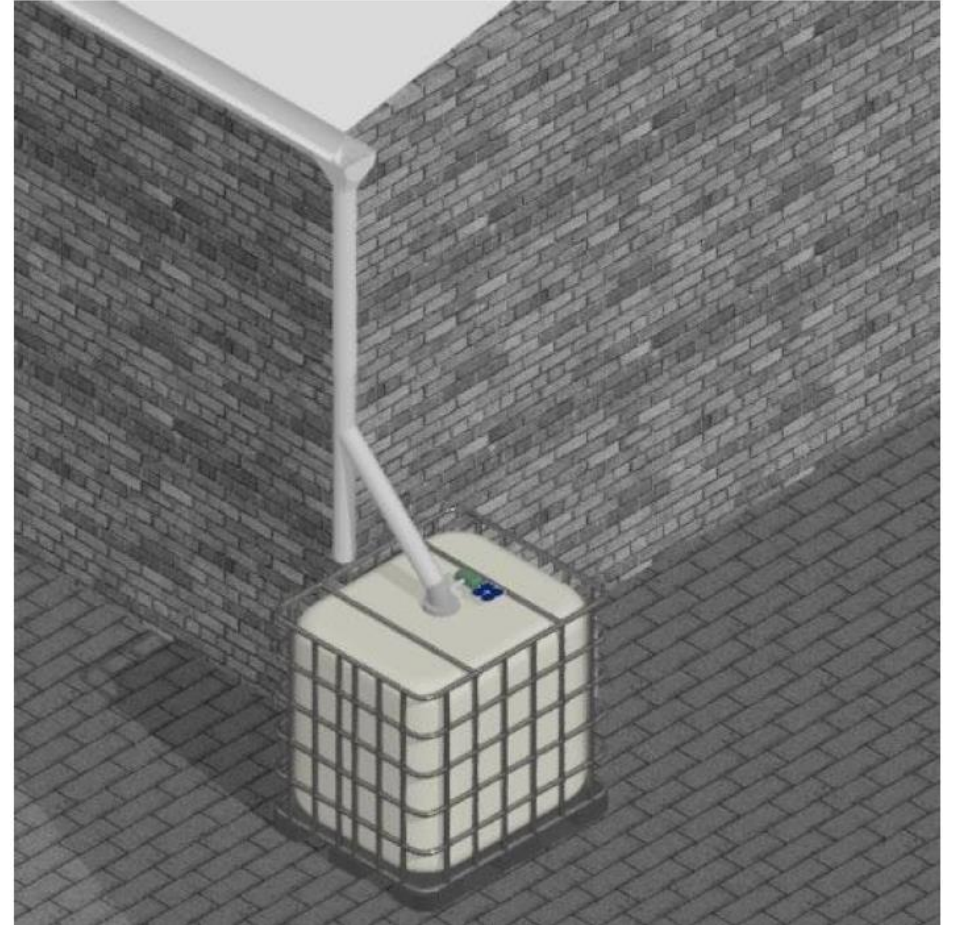


Previous physical mockup of the design

Prepare a physical model of the SABUC system to validate the operation of the designed scheme. It will allow us to understand and analyze if:

- SABUC stores water correctly
- SABUC correctly filters the water
- SABUC captures rainwater correctly
- SABUC can be connected to the house facilities
- SABUC does not represent an additional risk at home

Note. The design of SABUC. will be respected 100%.

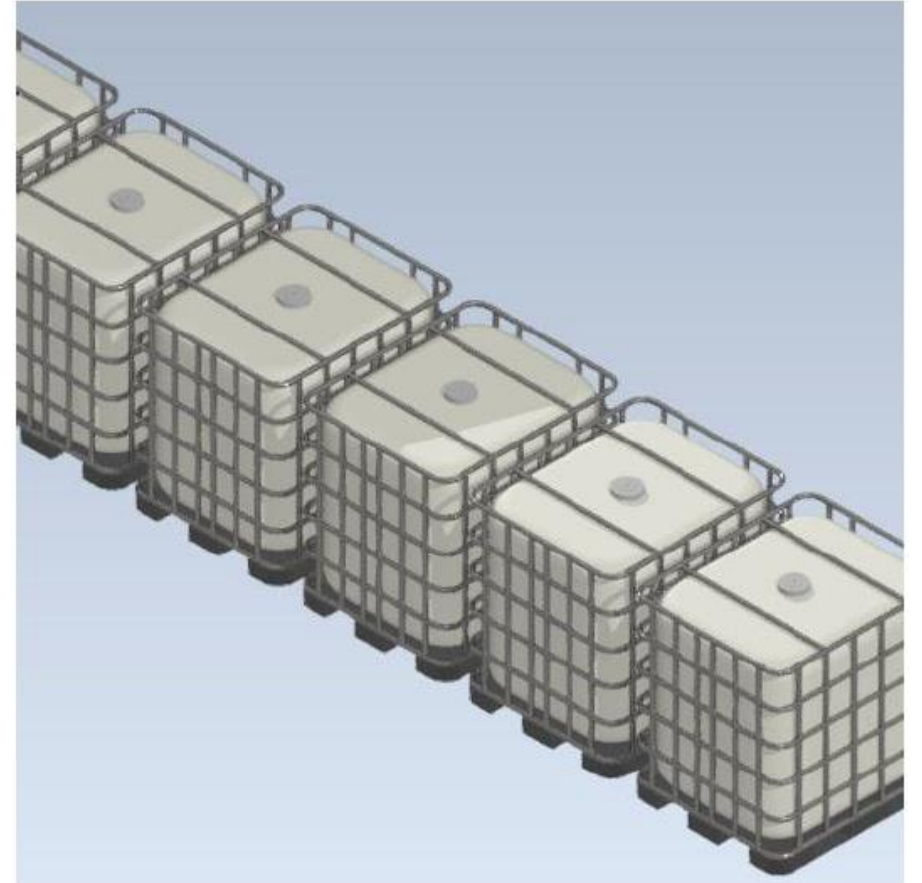


Validation of the materials to be used

It will be validated that the materials to be used by SABUC are present in the areas where it will be installed to define:

- Quality of the materials to be used
- Final price of materials
- Strategy for purchase and distribution
- Storage of materials, prior to installation
- If necessary, consider other materials that affect the assembly process

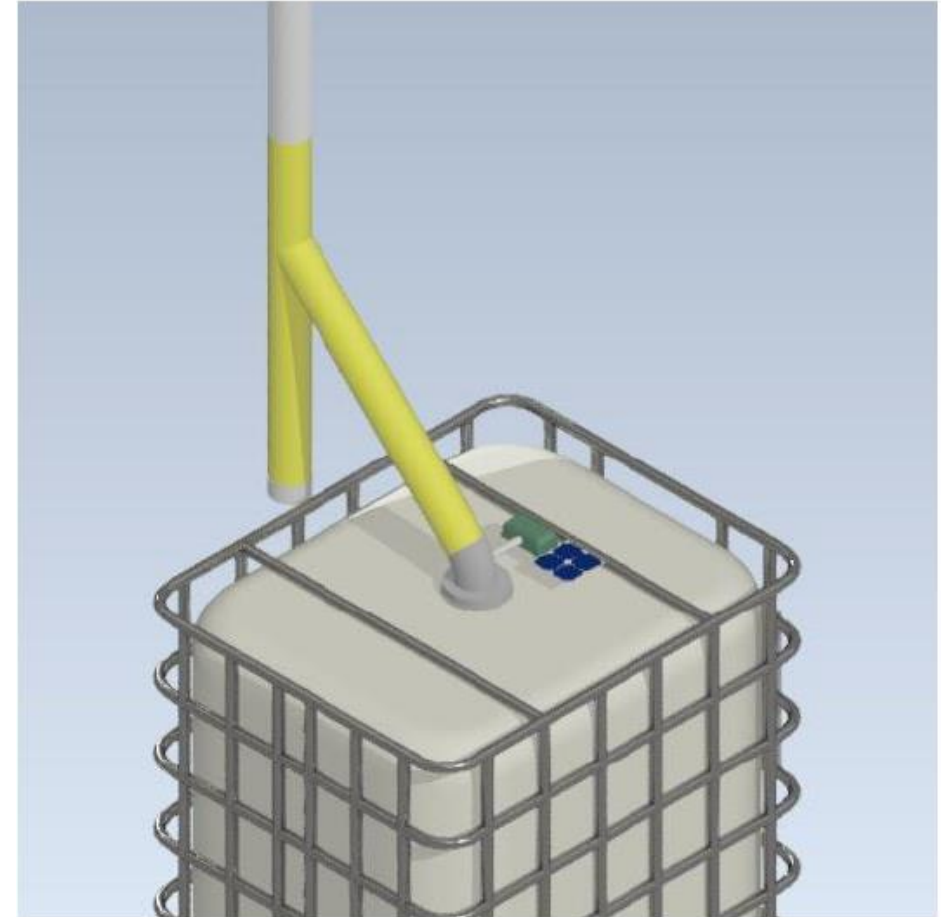
Note. The design of SABUC. will be respected 100%.



Prototype assembly

Prior to installation, an assembly process of the SABUC system will be carried out on a real scale. With the objective of validating

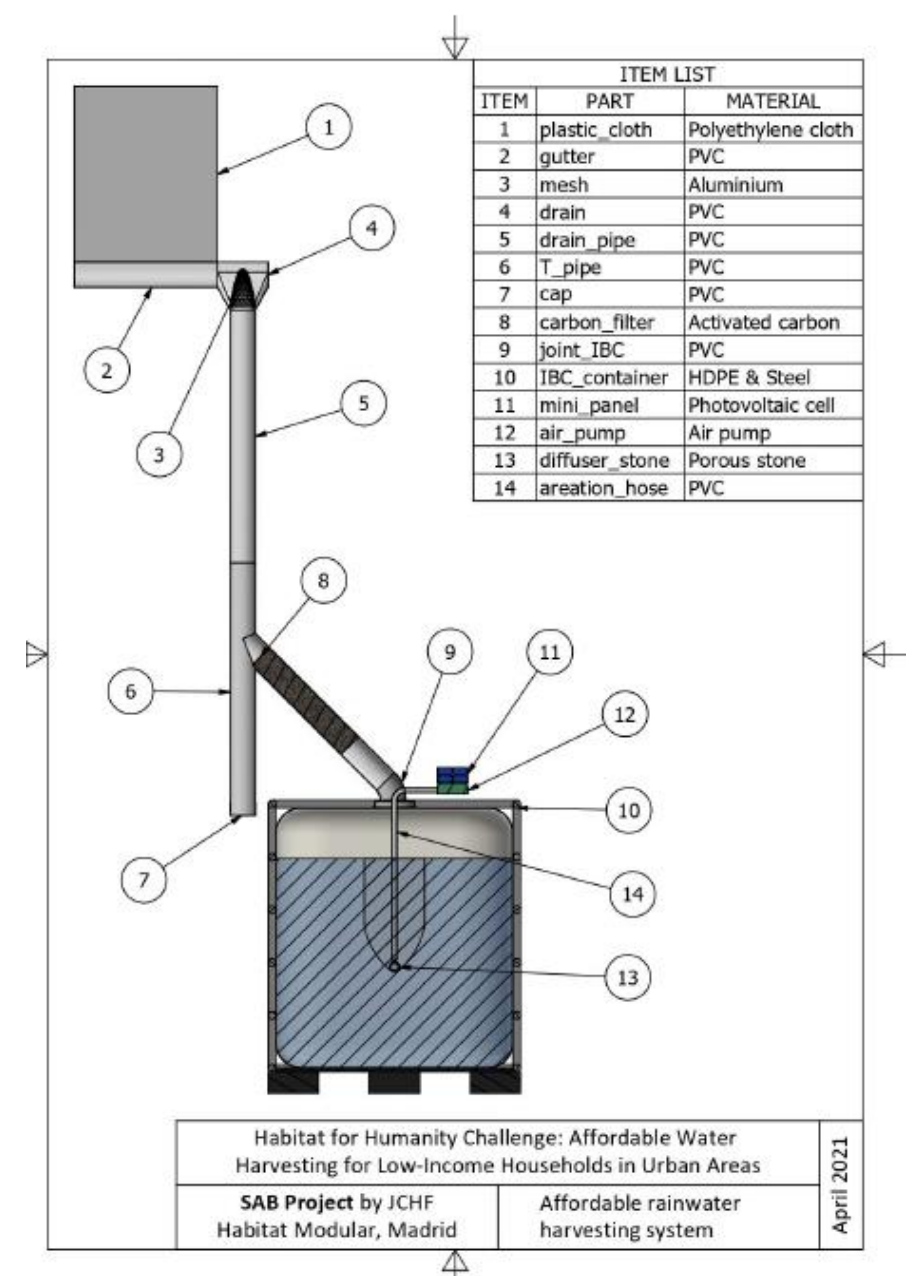
- Spaces, additional technical requirements, characteristics of the beneficiary homes and preparation for the installation process.
- **The specific characteristics of each home** will be considered, in order to best adapt the design of the SABUC System. It will seek to reset the design 100%



Installation of SABUC technology

Carry out the installation process of SABUC in the homes of the beneficiary families, previously selected. This considers:

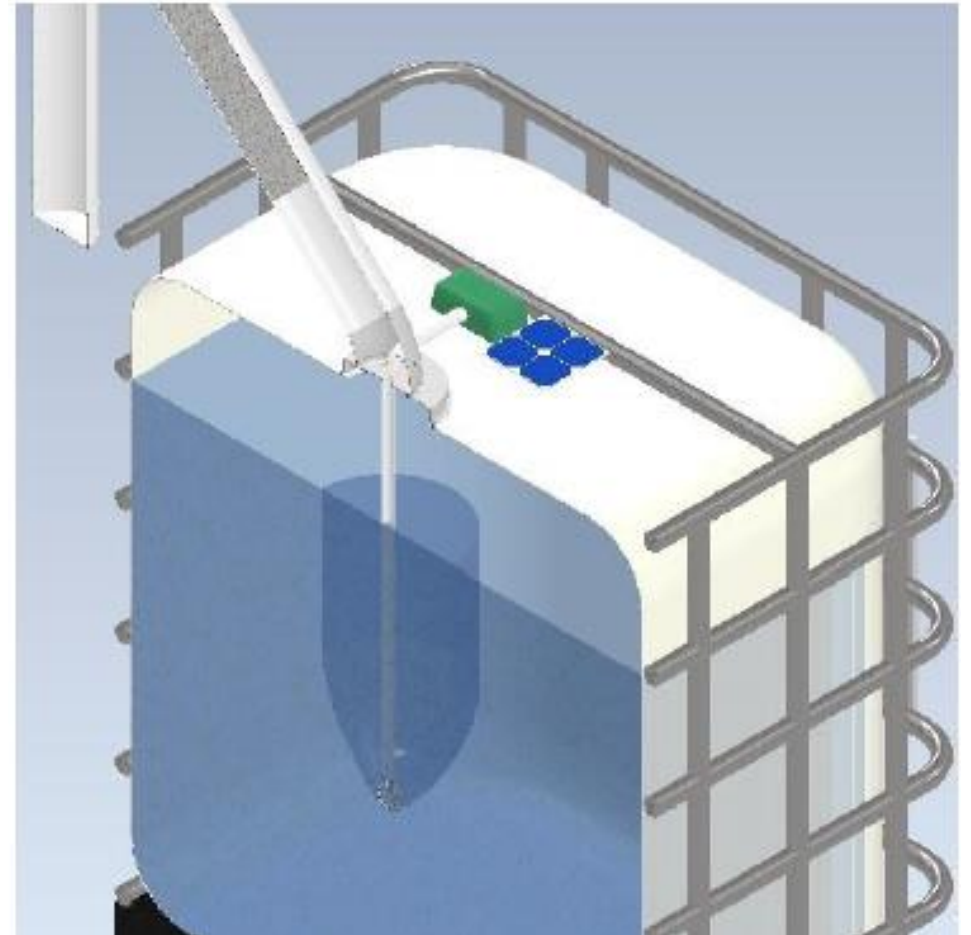
- Distribution of materials on site
- Hiring labor for the installation process (Could be Plumbers)
- Photography and systematization of the process



Monitoring

Develop and implement the necessary monitoring schemes to validate the operation and use of SABUC with families. Three key areas are considered to measure its performance:

- If the technology **is functional** and adapts to the water requirements in the homes of the beneficiary families
- SABUC stores and distributes **quality water** at home
- SABUC improves the **quality of life of families**, by having access to water through rainwater harvesting.



Beneficiary Families

3 areas are proposed to carry out the validation of the prototype, however, 1 will be selected, depending on the costs and opportunity that exists in the area.

- Atizapán de Zaragoza, State of Mexico.
El Capulin, Los Cajones, 52948
- Villa Nicolás Romero, State of Mexico.
Col. Libertad, Las Torres 54407
Col Morelos, 54455
Col del Campo, El Trafico, 54435
- Lerma, State of Mexico.
Col. Guadalupe, Center

10 families will be beneficiary



