GROUP NO-01

HYDRO HELPERS

RAIN WATER HARVESTING SYSTEM

OUR TEAM

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Problem Overview

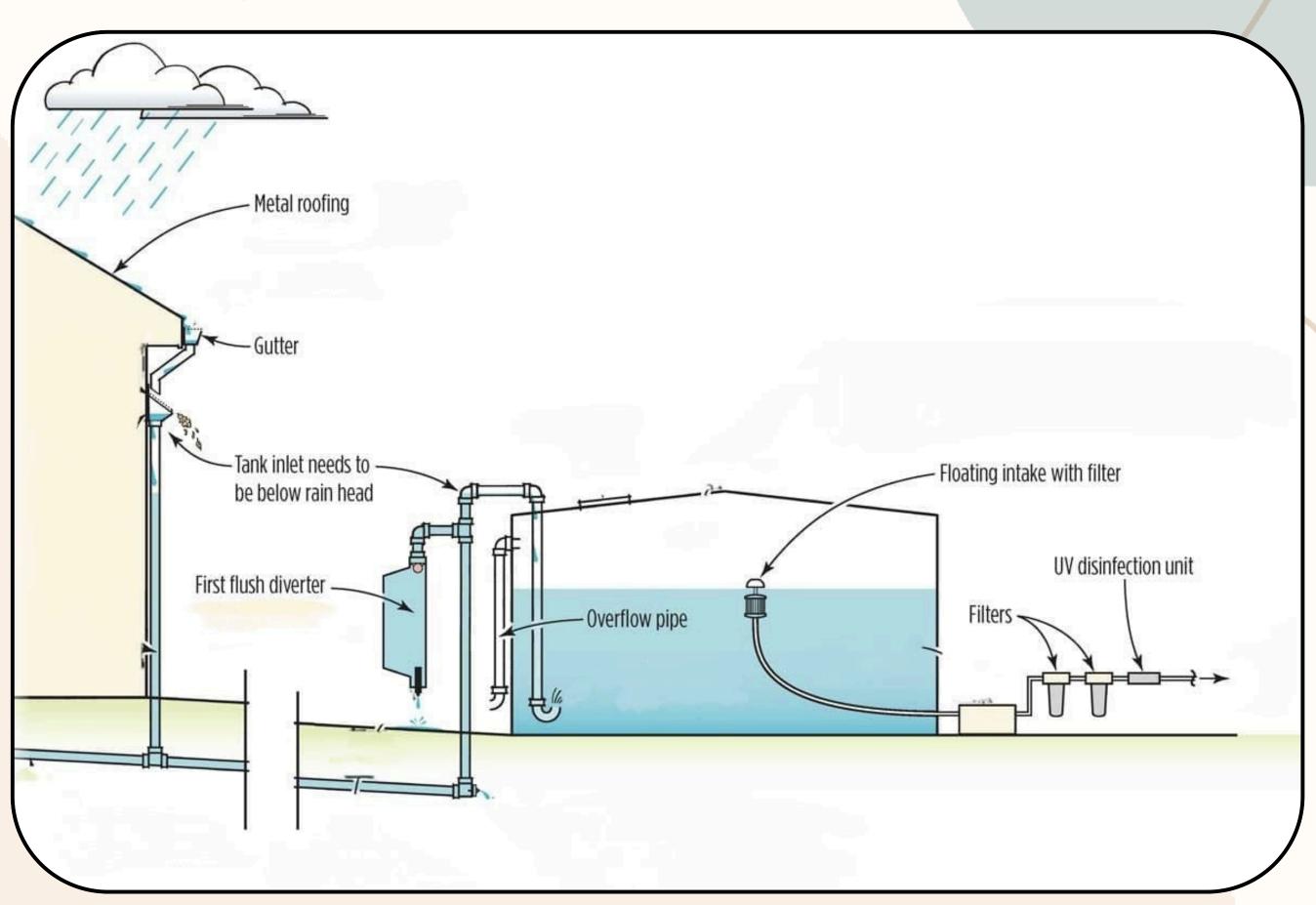
In various regions of maharashtra their is enough rainfall but still people are facing water problems like dirty water, water shortage, dried wells and borewells. the government is not able to reach at ground level for every small village to provide them enough source of water with good quality and quantity. also same kind of problem is faced by people who lives in populated cities. beacuse of crowded region the every family cannot get enough water supply from municipality.



BRAINSTORMING

ACTIVITY

Includes creativeness&future vision



PERSONA CONSTRUCTION

In this persona the targeted enduser is the homeowner in populated city like mumbai

Persona G=1Group no:1 To decrease water pollution and increaseth . The end user is a homeowner placed in Mumbi Conservation of ground water · He live's with his small family, or 2 To increase his property value by providing eco-friendly features to protect internment. To provid healthy & sediment bess water to his family. Children and his wife. Ite is active gourd and environmental Volunteer well educated and knows all the do's Doubts / Fears · Mosquito breeding in stored water and and don't's regarding to the invironassociated health risk. · fear of social stigma and negative response mental. Family background education, childhood from neighbors or socity · Rish of electricity flow through the pipes due to improper installations 2 mainstanance was Challenges faced Limited awareness in setting up RWH System High installation and maintanance cost

· Decrease dependency on munipal water supply and store enough water

· save's money an water cost and that money can be collected for other important · inpire other to adopt sustainable practices

and install Rain water harvesting system.

Construct a story while explaining, the persona to your peets and document the insights and belongs to a well educated family. He is the end user is a family man living in mumbal and belongs to a well educated family. He is a active environmentalist and social warker. He is well aware about scarcing of water in many rural areas near his locality. Facing the problem of finance making a working rain water harvesting system. Is motivated to decrease water localition and increase ground water.

Very limited space to install in urban

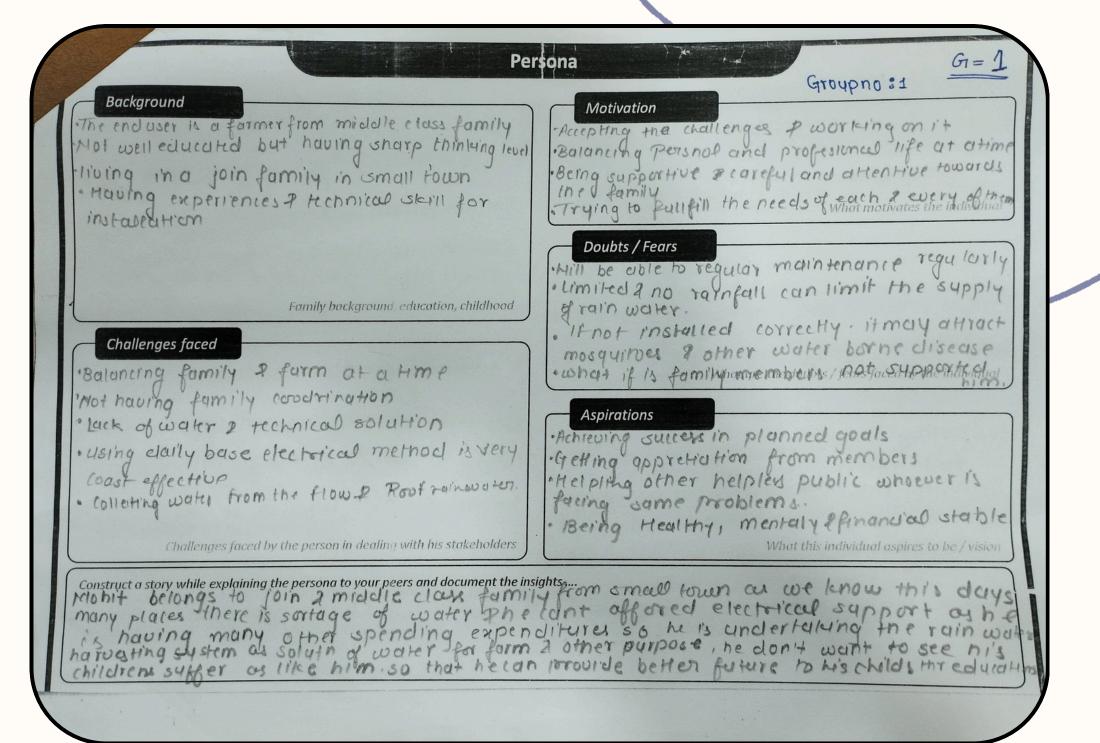
· limitation to expand or scale up the

area houses.

system for improvement

PERSONA CONSTRUCTION

In this persona the targeted enduser is the farmer from the middle class family



AFFINITY MAPPING

A visual technique for organizing information into groups to identify patterns

STORAGE

TANKS
RESERVOIRS
BARREL
CISTERN
CONTAINERS

TREATMENT

FILTRATION
SEDIMENTATION
DISINFECTION
PURIFICATION
SCREENING

BENIFITS

CONSERVATIONS
EFFICENCY
COST-EFFECTIVE
SUSTAINABLE
ENVIROMENT
FRIENDLY

USAGE

IRRIGATION
DRINKING
COOKING
WASHING
FLUSHING

AFFINITY MAPPING

REQUIRMENTS

PIPES
PUMPS
VALVES
FITTINGS
HOME

COMPONANTS

OVERFLOW VALVE
INLET SCREEN
OUTLET PIPE
FLOAT VALVE
FIRST FLUSH
DIVERTER

DESIGN

CAPACITY
SIZE
MATERIAL
SHAPE
LOCATION

MAINTENANCE

CLEANING
INSPECTION
REPAIR
REPLACEMENT
UP KEEP

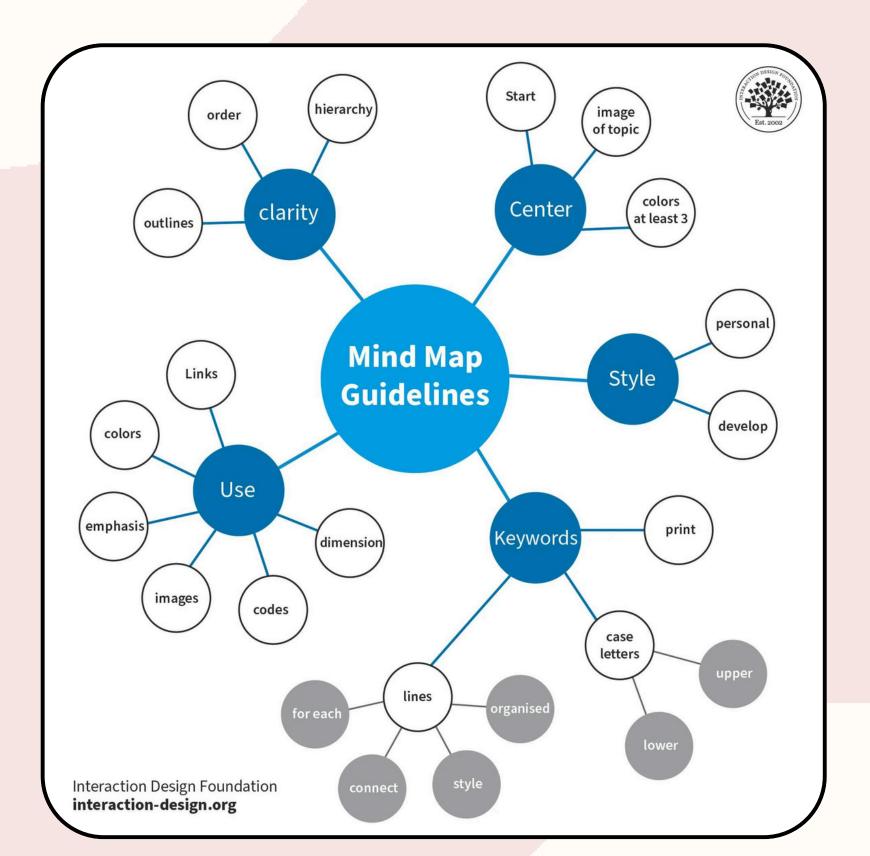
AFFINITY MAPPING

EDUCATION AND AWARENESS

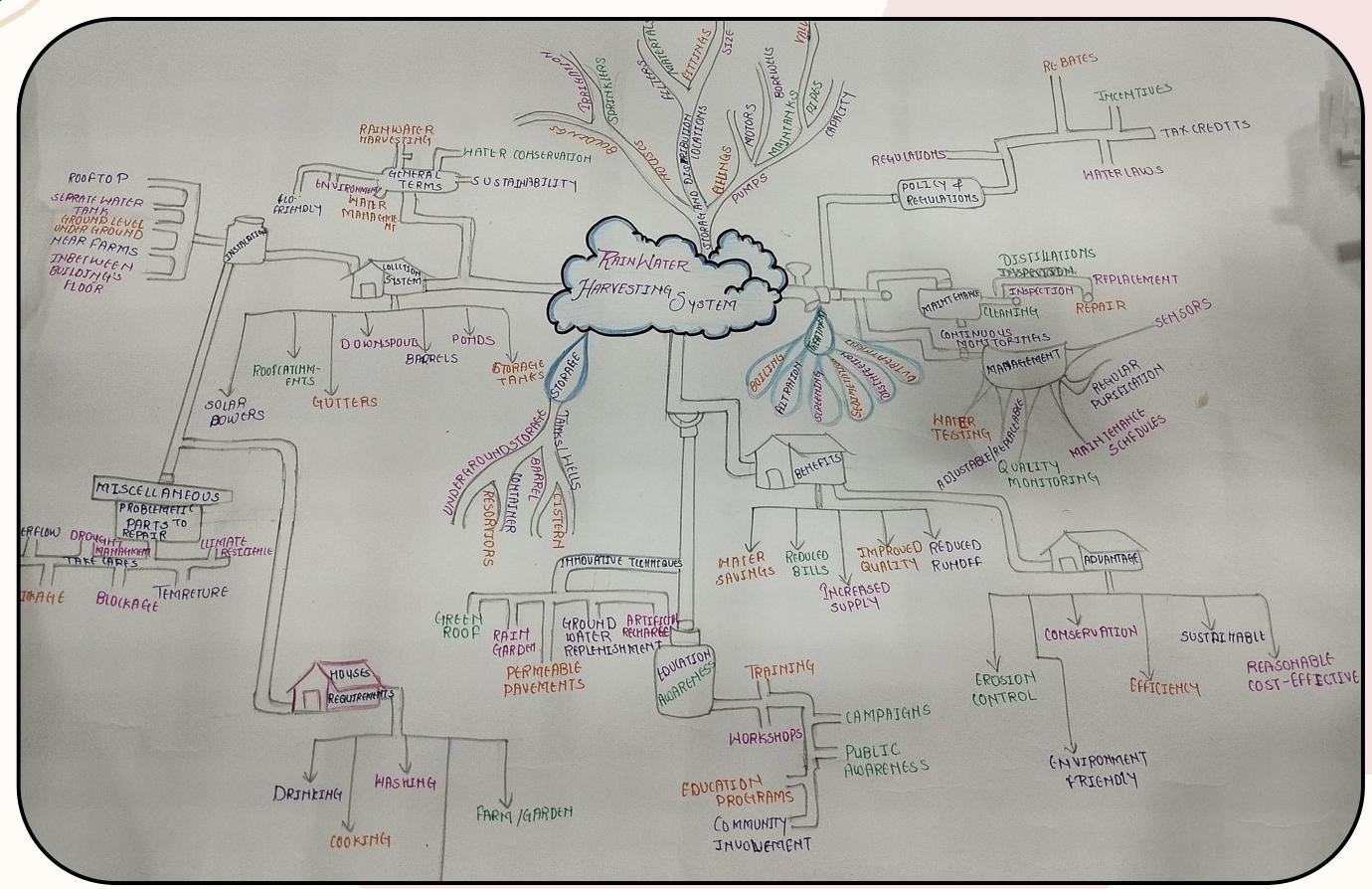
WORKSHOPS
TRAININGS
EDUCATION PROGRAM
PUBLIC AWARENESS
CAMPAIGNS

MINDMAPPING

A mind map is a diagram used to visually organize information into a hierarchy, showing relationships among pieces of the whole.

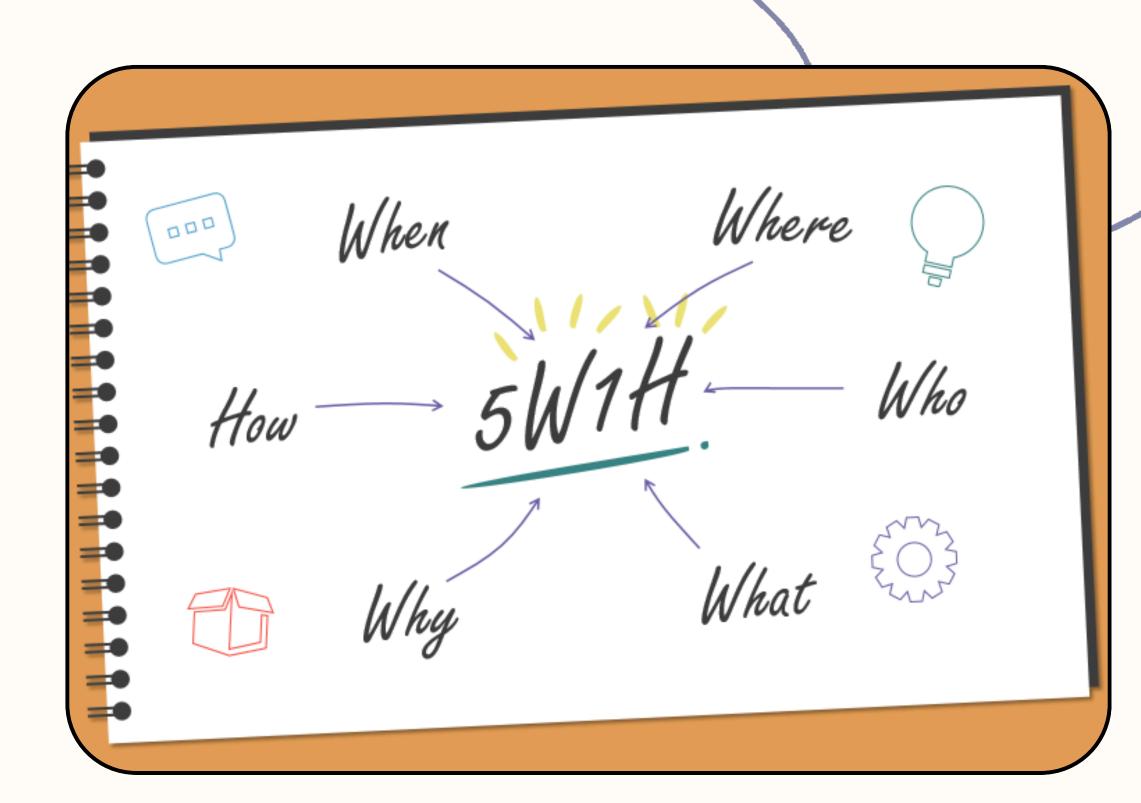


MIND



5W&1H

The 5W1H technique is a questioning method that helps you understand a situation by asking six basic questions: what, who, when, where, why, and how.



5W&1H

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opic-Rain wa	ter harvesting system	
Aspects	Question	Details
Who	Who are the endusers?	people who lives in populated citys(Apartments)
		Farmers
		beneficaries-all peoples who face water probem
		supporters-Government
What	What is the problem?	Facing drought and water shortage
		too much wastage of rain water
		No one to give right guidance
	what is the solution?	Rain water harvesting system
	what are the key features?	one time investment
		eco-friendly
		free source of water
		money saver
Where	Where will the system being used?	homes
		schools
		offices
		apartments
		All kind of buildings
	where will the system being test?	In buildings which will have no objections
when	When is this system needed?	In rainy season
	When should the project be complete	In 3 weeks
why	Why is this project important?	Because it can reduce the wastage of rain water
		It can save money
		It's a eco friendly investment
	Why enduser will adopt this system?	It's good source of free water
		It's the solution to reduce water bills
How	How thus the system works?	It collects water from rain and stored in tanks with purification process
	How to upgrade the system	By regular maintanance
		By gathering more information about system

Thank you!