

Hommage à La Solidarité


607892

LAZAROPOLE

Lazaropole is a village in the Municipality of Mavrovo and Rostuša, North Macedonia. Situated on a plateau at Mount Bistra and surrounded by beech and oak forest; at 1,350 m altitude, it is one of the highest settlements in the country.


SITE ANALYSIS

LOCATION



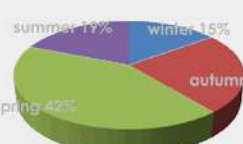
This place is situated in Rostuša, Gostivar, Macedonia, its geographical coordinates are 41° 32' 10" North, 20° 41' 38" East.

PLANT




Oak and beech forest is present there.

CLIMATE




Lazaropole is situated on a plateau at Mount Bistra at 1,350 m altitude and is a mountain heaven in Macedonia. The mild mountain climate due to the thermal influences of the Mediterranean which extend along the river of Radika is a reason for Lazaropole to have over 2000 sunny hours per year.
Precipitation - 1047mm per year
Temperature - min (-3) degree to (-6) degree max 22 degree to 24 degree

HUMAN SETTLEMENT



Lazaropole is one of the highest settlements in the country. There are about 400 houses in this village.

CULTURAL ACTIVITY



The traditional macedonian folk dance **TESKOTO** is from the area of Lazaropole.

CONNECTIVITY WATER RESOURCES SOIL AVAILABLE MATERIAL

2M DISTANCING BETWEEN TWO PEOPLE. THIS RULE IS MAINTAINED IN ROADS ALSO IN THE COLONIES FOR THIS COVID SITUATION.

The vehicular movement in the given road is very low. Road is connected with Gostivar, which is 75km distanced and Marvoro Debar, which is 23km distanced from Lazaropole.

Water basin and water supply from municipality. There is also a river named Radika.

Rocky soil. Soil is rich in iron. Strong soil. Soil is some acidic and full with nutrients.

Wood, stone, tiles etc. Stone masonry is normally used for building construction. Wood is used to construct window, door, roof trusses and interior also. Tiles are used to make floor or roof covering material moreover A.C. sheets are used to make roof covering.

- Road is designed to maintain social distance.
- Roads are divided into two parts, that is one way system. Each road consists two pedestrian paths.
- Sanitization chambers are used in the pedestrian paths.
- Pedestrian way is arranged in the form of steps(2mX2m).
- Between two pedestrial paths there is vehicular road.
- Trees are provided in the middle of the roads for shading purpose and pollution control.

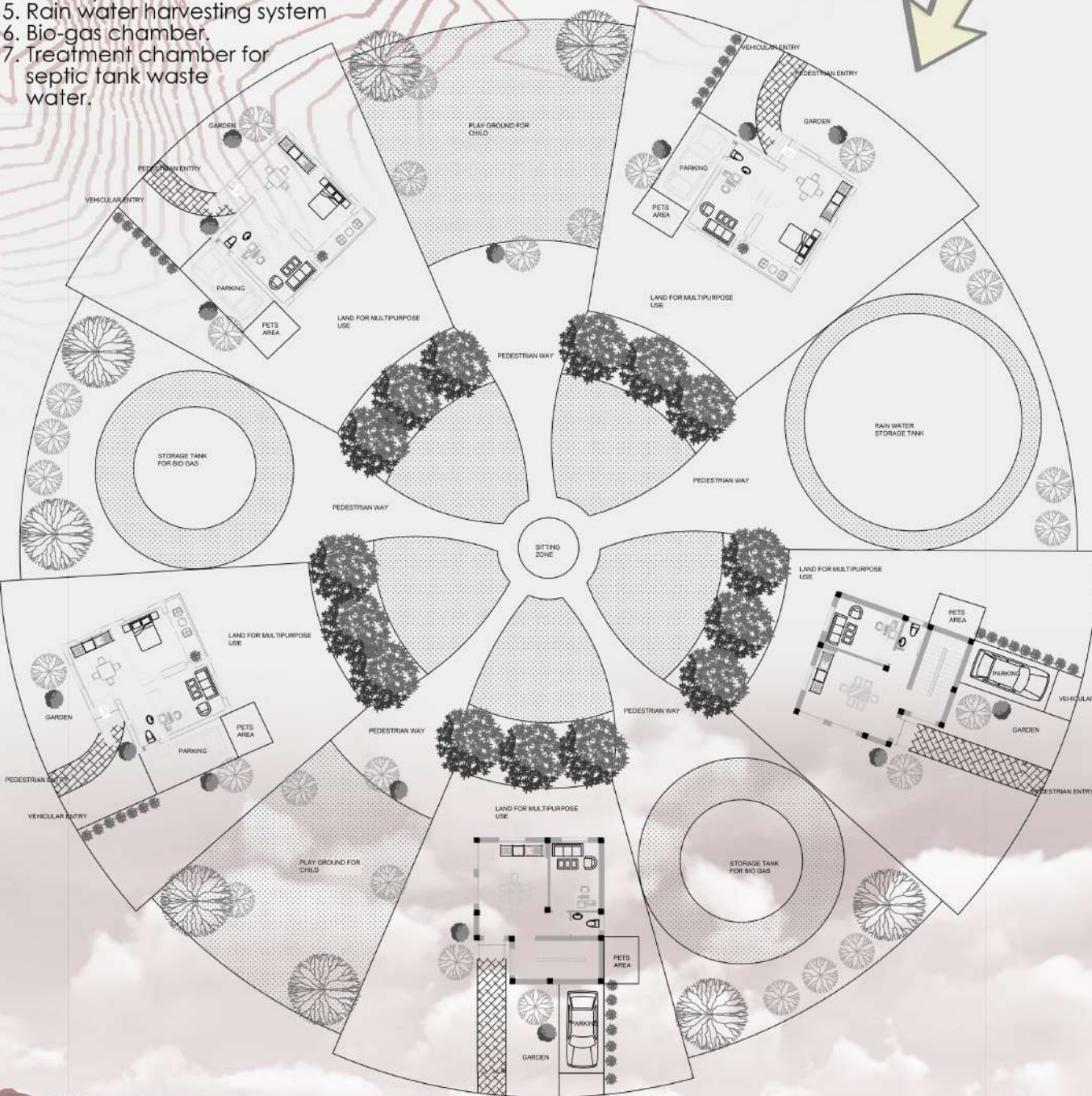
WHY COLONY?

In this COVID situation, social distancing is one of the important rule. So, we have divided the residential portion by colonies. Each colony consists 5 houses, two double storied and three single storied houses. By using landscaping, each house is separated from others, so social distancing is maintained. Also vehicular and pedestrian entries of each houses are separated from others.

ACTIVITIES

1. 5 Houses with their separate vehicular, pedestrian entry, pets' area, parking area, agricultural land for their own.
2. At the center of the colony, there is a common seating zone and garden area for temporary meeting place which reduce the boredom of every people.
3. Children's playing area.
4. Solar system.
5. Rain water harvesting system
6. Bio-gas chamber.
7. Treatment chamber for septic tank waste water.

MATERIALS AND TECHNIQUES



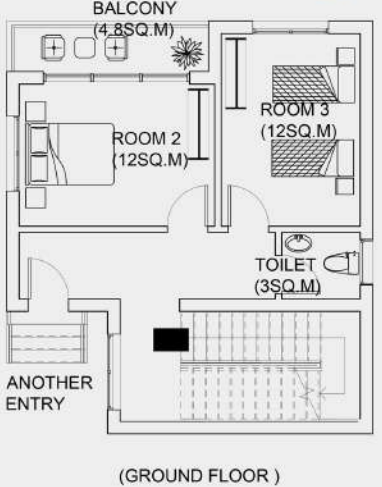
This is load-bearing wall structure.

Wall is constructed with stone masonry and mortar because stone is available material here. AC sheet is used for roof covering, which is affordable in cost.

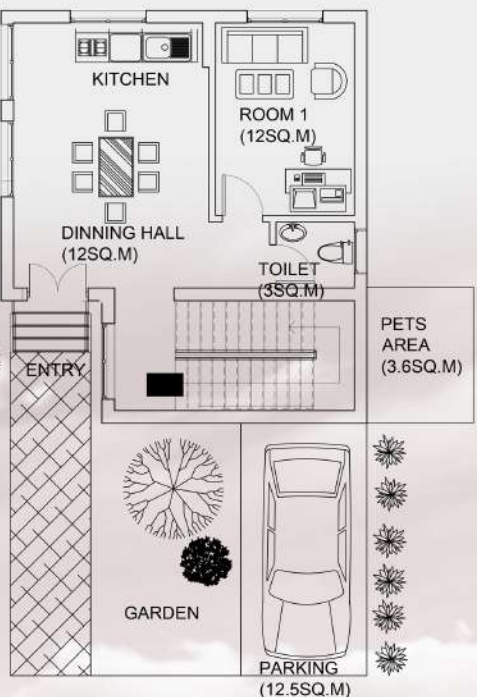
Trusses for pitch roof is constructed by wood, which is locally available.

Slab is constructed by wooden waste concrete, which is strong and sturdy. Wooden waste is easily available from the nearest oak forest.

Wooden waste flooring or stone flooring is also used as a flooring material.



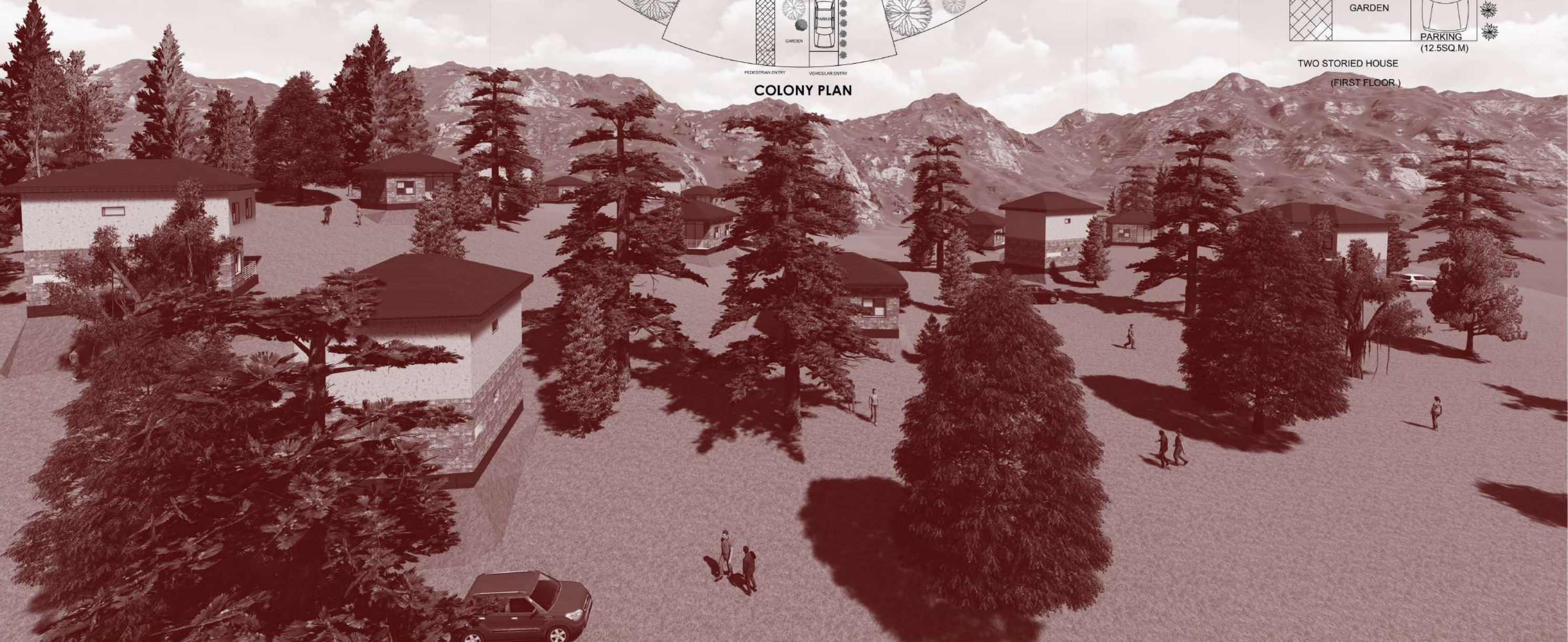
(GROUND FLOOR)



TWO STORIED HOUSE (FIRST FLOOR.)



SINGLE STORIED HOUSE



WHY TECHNOLOGY IS IMPORTANT ?



Technologies are very important to design something. we can try to use low cost building technology for construction and recycle wastage , also reduce polutions.



LOW COST CONSTRUCTION IS USED IN ALL THE BUILDINGS IN LAZARPOLE LIKE HOUSES,HOSPITAL,MARKET BUILDING



LOCALLY AVAILABLE MATERIALS ARE USED IN THE CONSTRUCTION OF THE BUILDING. EXAMPLE STONE,WOOD ETC



RECYCLING OF THE MATERIALS IS A VERY IMPORTANT FACT IN THIS DESIGN. EXAMPLE USES OF WASTED OIL, WASTED WOOD ETC.



REDUCE POLUTION IS A MAJOR THING WE CAN CONSIDER TO DESIGN THIS. EXAMPLE USES OF NATURAL ORGANIC THINGS.



MARKET DETAILS

- 1 The market is totally closed and well sanitized.
- 2 All stores are provided in the ground floor and store rooms are provided in the first floor.
- 3 Multiple entries to avoid chaoses.
- 4 Distance between two shops are 3 metres.
- 5 For covid situation,open markets are not required,so closed sanitized market is perfectly suitable.
- 6 All foods,glossaries for home, any other iteams are totally available. this is the only market.



GROUND FLOOR

Materials and technologies are similar to house construction

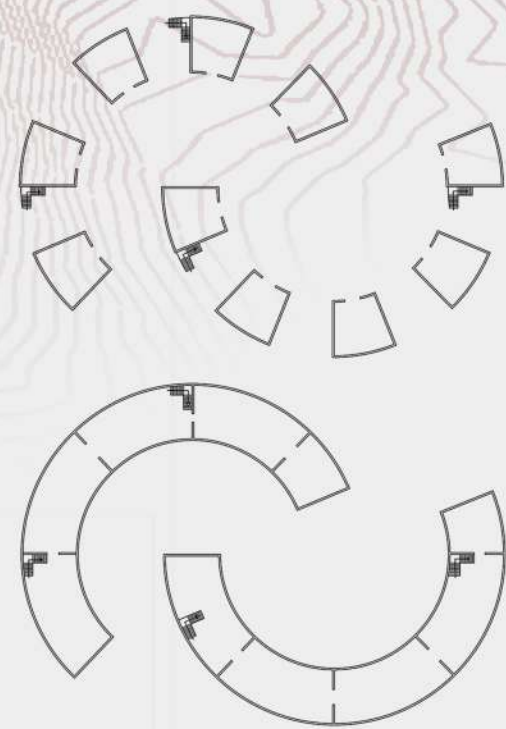
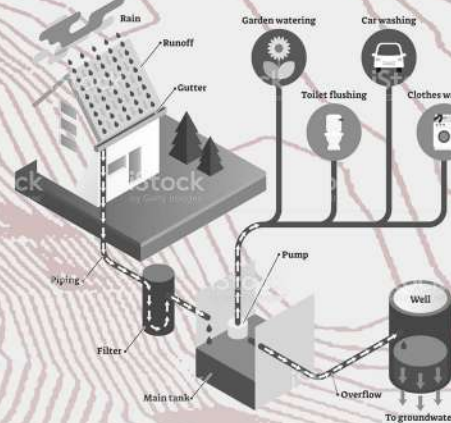
TRANSPORTATION SYSTEM

Biodiesel is produced from the waste oils of home,market etc . which is used for transportation purposes.



RAINWATER HARVESTING

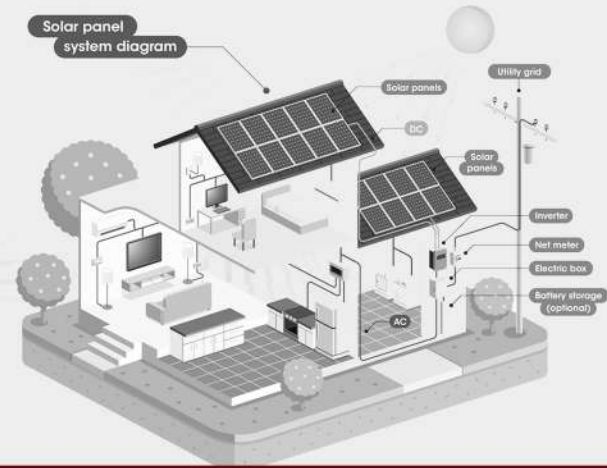
A large rainwater storage tank is provided for each colony.the rain water in rainy season and snow in winter season is collected ,then purified and then used as a water source. for other time of the year ,water is supplied from municipality .rain water is used for gardening, washing, toilet water etc purposes.



PLAN OF MARKET

SOLAR SYSTEM FOR ELECTRICITY

Solar panels are fixed on the top of the roof of the each house for a source of electricity.



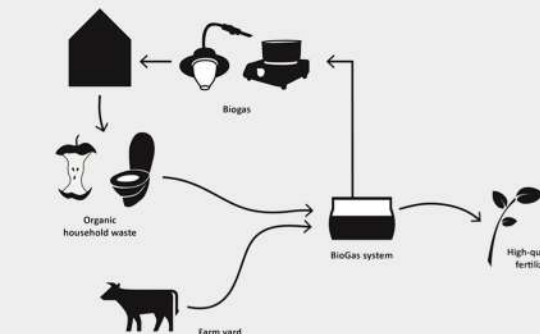
PROVIDED INCOME SOURCES

In each houses in the colony,we can provided an agricultural land and pets room.because in a village,agriculture is a main source of income,they are also have farming option as a income source. and their hand crafts are also cell in the market and exhibition area.



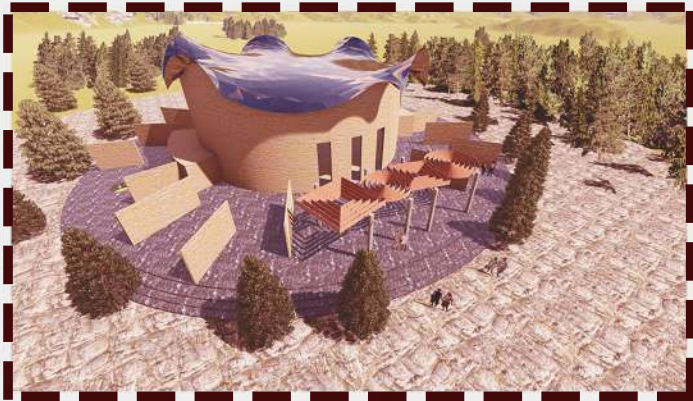
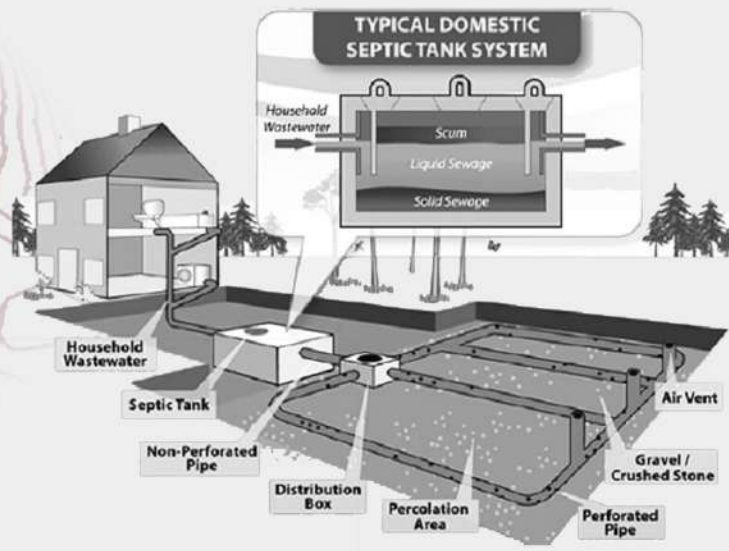
BIOGAS TREATMENT

Gas from the septic tank of each colony collected and modified.this modified gas is used as a source of electricity ,gas of the kitchen oven.



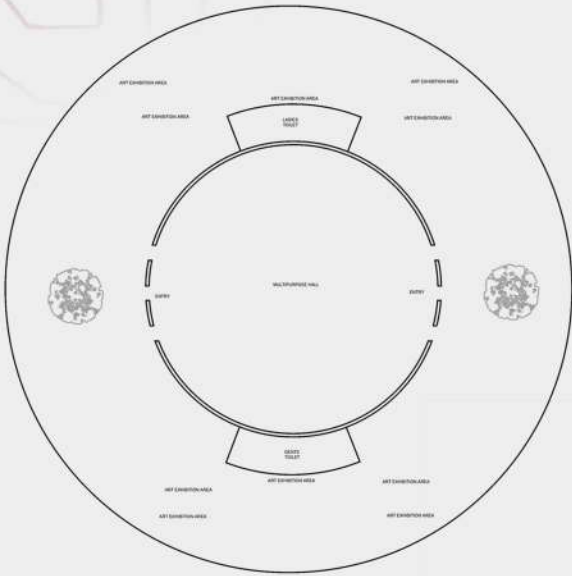
WASTE WATER FROM SEPTIC TANK

The waste water of the septic tank is collected from each the colonies and then applied in the agricultural land as a organic liquid fertilizer.



MULTIPURPOSE HALL

- 1 In Lazaropole, they have a Macedonian folk dance culture TESKOTO and peoples also creates their art like music, dance, paintings etc. these art works and cultures are represented in this hall.
- 2 For present situation(covid situation) this hall is act like a quarantine hall for out siders.



PLAN OF MULTIPURPOSE HALL

FACILITIES

- 1 A large hall
- 2 Toilets (ladies and Gents)
- 3 A great plaza for art exhibition
- 4 landscaping.

HOSPITAL PLAN DETAILS

The total hospital portion is divided into two portions, one is for normal people and another is for covid patients.

FACILITIES

- 1 Reception and waiting area
- 2 toilets (ladies ,Gents and Handicaped toilet)
- 3 Doctors chamber (3 no. in. each floor)
- 4 V.I.P. waiting area and meeting room
- 5 Medicine and drugs stores
- 6 Test unit chamber
- 7 Administration office
- 8 Operation theatre with washing zone
- 9 Outdoor garden area
- 10 Canteen ,kitchen ,toilets
- 11 Reception ,waiting area ,test unit for covid
- 12 Rooms for primary, secondary, finnal stage covid patients.



TYPICAL FLOOR

