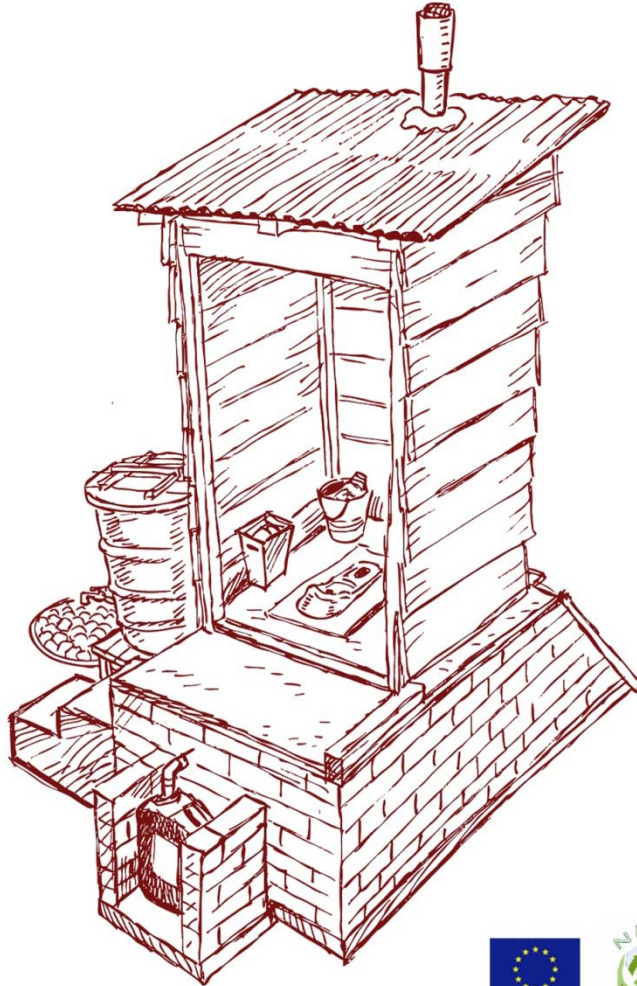


HOW TO BUILD A SINGLE CHAMBER URINE-DIVERTING TOILET



HOW TO BUILD A SINGLE CHAMBER URINE DIVERTING TOILET

HOW TO USE THE FLIPCHART

1. The flipchart is designed to stimulate interaction with community members. Encourage the audience to ask questions and make comments.
2. The questions in the text will help you to guide the discussion. Possible answers to these questions are included so that you can supplement the comments from the audience.
3. The flipchart is more effective when used with a small audience (15-25 persons). If you have more than 25 persons in a community, have two or more sessions.
4. Select a comfortable place and make sure everybody can see the illustrations very well.
5. Hold the flipchart straight. Talk loudly.
6. Demonstrate as much as possible
7. Have the audience summarise the major stages of the day's discussions.

ILLUSTRATION 1

Let us learn about how to build single chamber urine Diverting toilets in our households/communities

ILLUSTRATION 2

The components of a single chamber urine diverting toilet

NOTE TO THE COMMUNITY OFFICER

1. Discuss the components of the single chamber urine diverting toilet
2. Discuss the steps in making the various components of toilet

ANSWERS:

1. Parts of the urine diverting toilet:
 - A. The concrete base slab
 - B. The brick chamber (vault) that houses the faeces
 - C. The concrete latrine slab which fits on top of the chamber
 - D. The toilet house (superstructure) which provides privacy and security
2. Steps in making the various components
 - Make a concrete base slab on a level ground to form the base of the toilet
 - Cast a concrete latrine slab off-site
 - Cast holes in the latrine slab for the squat plate and the vent pipe
 - Build a chamber preferably with fired/burnt bricks and mortar to house the bucket (faeces container)
 - Make a chamber access slab to fit at the rear of the chamber
 - Make a superstructure with relevant and affordable materials to offer privacy
 - Make a hole in the roof for a ventilation pipe to pass through

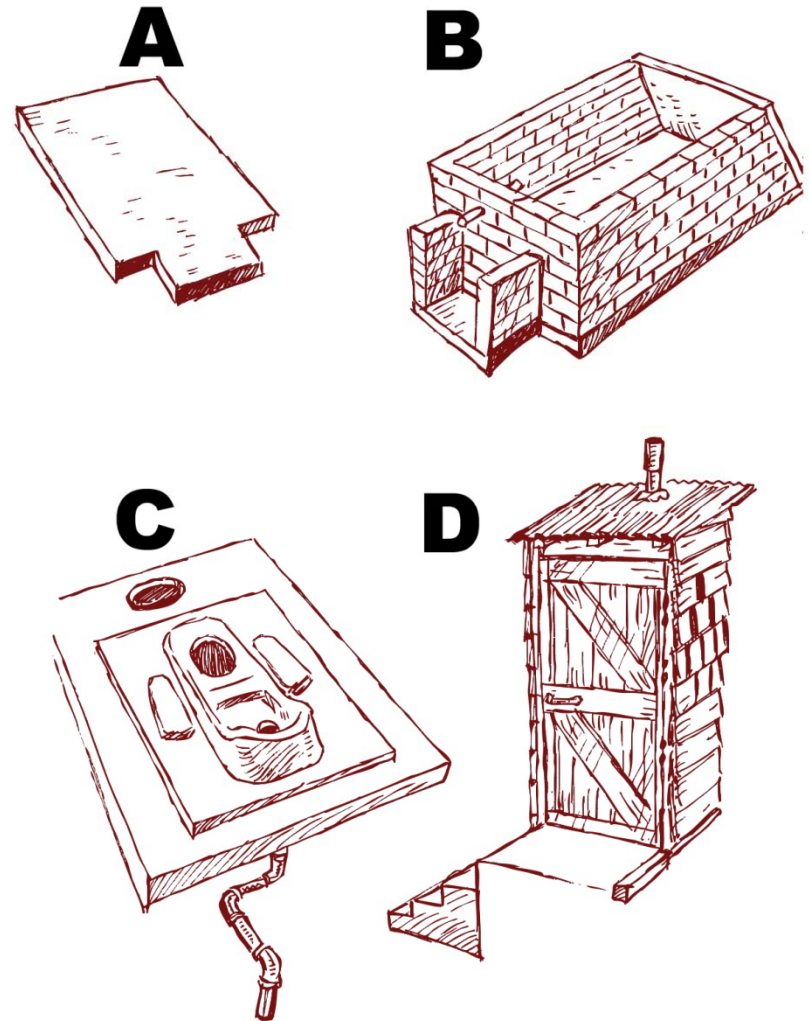


ILLUSTRATION 3

Building the concrete base slab of a single chamber urine diverting toilet

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NOTE TO THE COMMUNITY OFFICER

1. Explain the various steps in making the base slab
2. Demonstrate the various steps in making the base slab

ANSWERS:

1. Making the concrete base slab
 - Make the slab of concrete (5 parts river sand to 1 cement or 3 parts river sand, 2 parts small stones and 1 part cement))
 - Cast within a mould of bricks with dimension 1.35m long x 0.9m wide x 75mm deep
 - Place steel reinforcing wires in the concrete and leave to cure for at least two days
 - Lay the base slab on level ground to form the base of the toilet

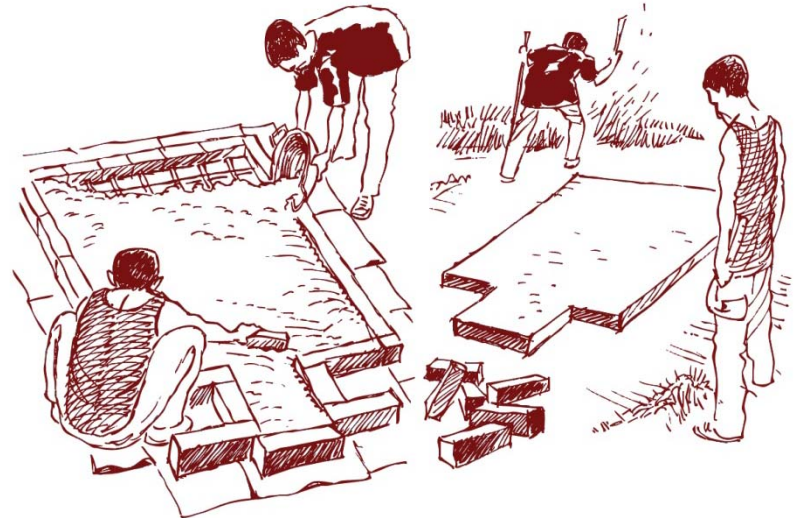
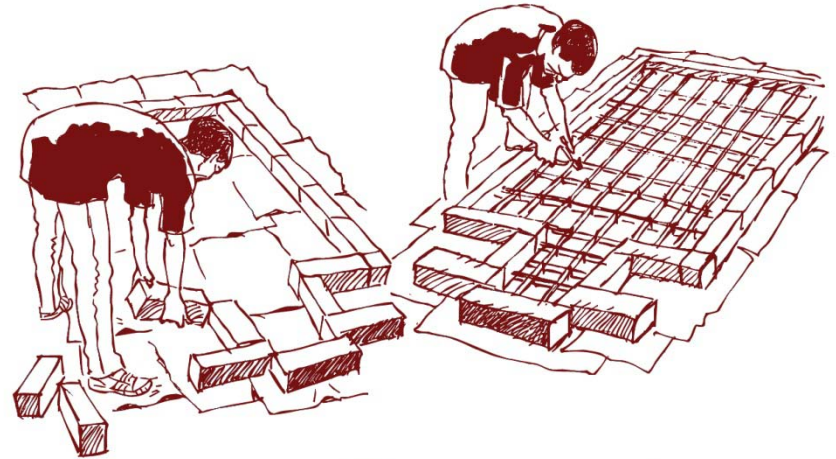


ILLUSTRATION 4

Building the latrine slab of a single chamber urine diverting toilet

NOTE TO THE COMMUNITY OFFICER

1. Explain the various steps in making the latrine slab
2. Demonstrate the various steps in making the latrine slab in a single vault urine diverting toilet

ANSWERS:

1. **Making the latrine slab**
 - Cast off-site using the same method as for the base slab
 - Make dimension of slab 1.2m long and 0.9m wide and 40mm deep
 - Cast holes in the slab for both the squat plate and vent pipe

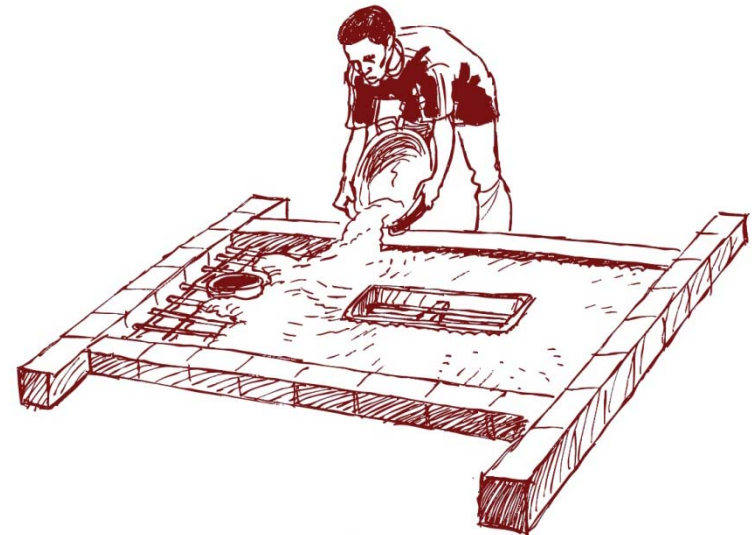
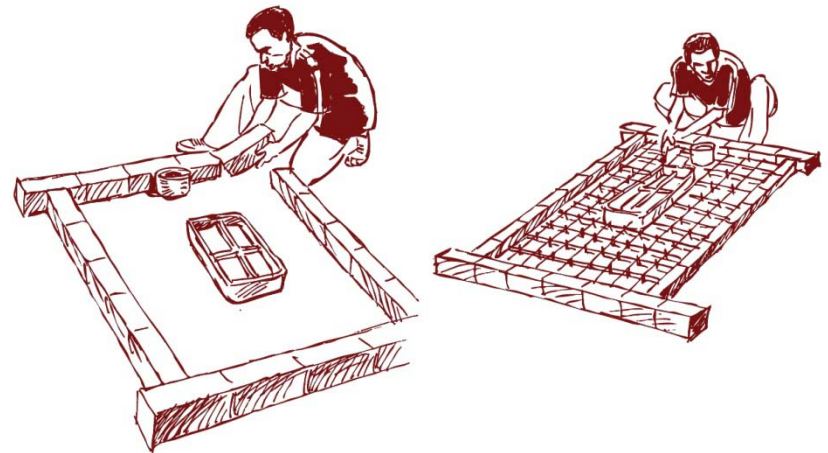
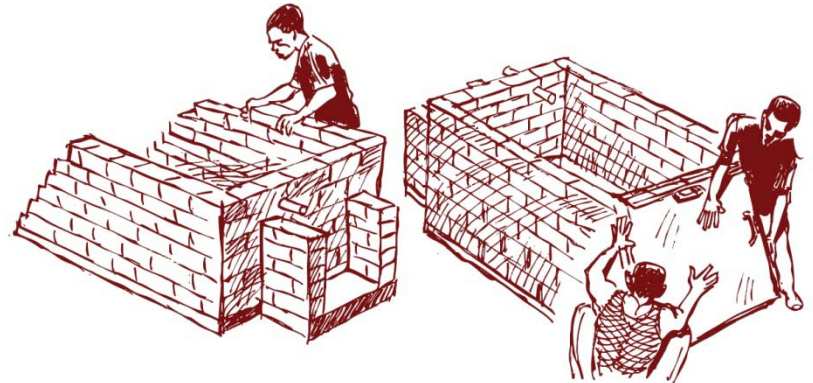


ILLUSTRATION 5

How to build the chamber that houses the faeces

NOTE TO THE COMMUNITY OFFICER

1. Explain the various steps in making the chamber and fitting the concrete toilet slab on top of the chamber
2. Demonstrate the various steps in making the chamber in a single vault urine diverting toilet



ANSWERS:

1. Making the chamber

- Build chamber with fired (burnt) bricks and mortar to the required height on the base slab
- Build chamber about 40cm high if a 20litre bucket is used
- Make the chamber access slab and
- Place the concrete toilet slab on top of the chamber bonded with a cement mortar

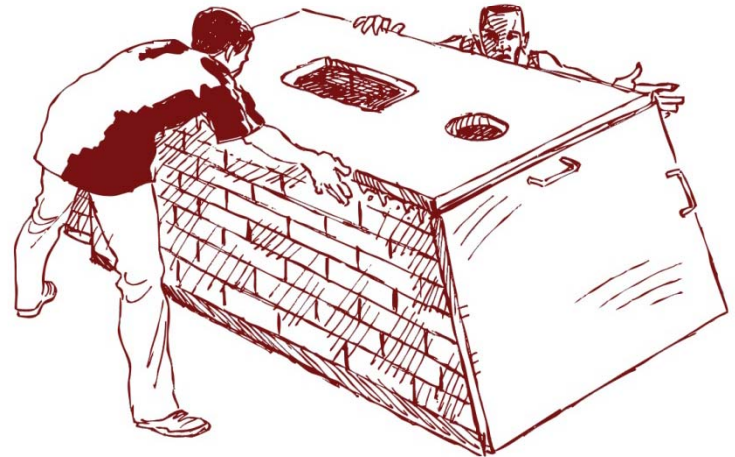


ILLUSTRATION 6

Fixing the squat plate and the urine diverter

NOTE TO THE COMMUNITY OFFICER

1. Explain how the squat plate and the urine diverter are mounted
2. Demonstrate how the squat plate and the urine diverter are mounted

ANSWERS:

1. **Fixing the squat plate and the urine diverter**
 - A squat plate is mounted on the holes cast in the concrete latrine slab
 - A plastic elbow is fixed to the urine diverting outlet of the squat plate through which a plastic pipe directs the urine into a storage container

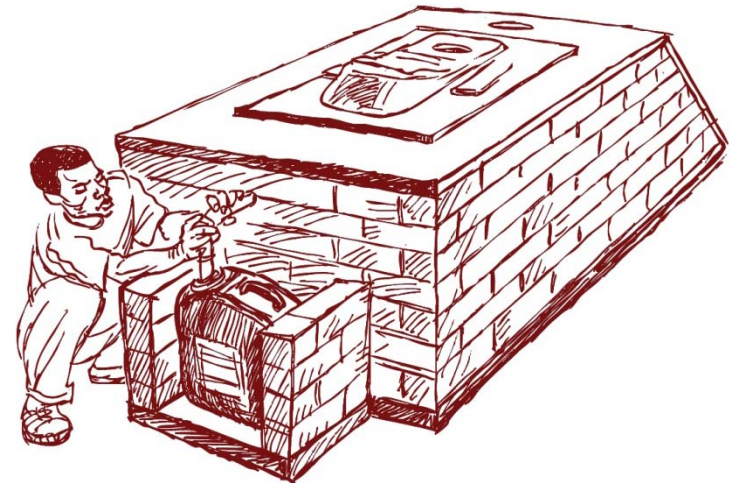
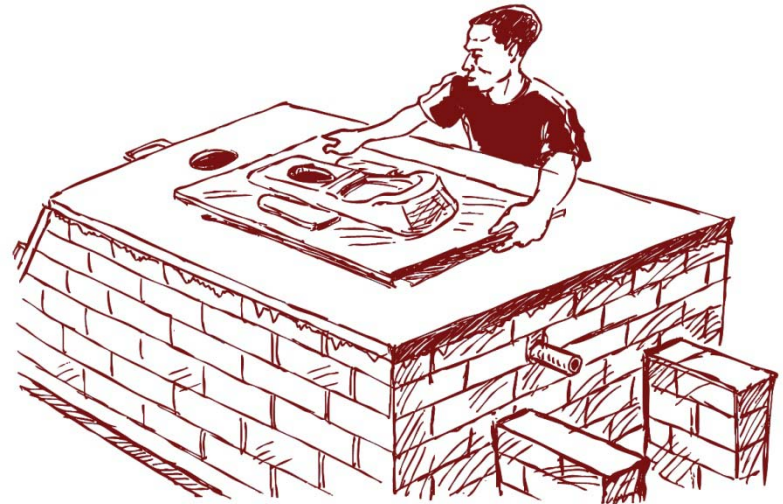


ILLUSTRATION 7

How to place the vent pipe within the single chamber urine diverting toilet

NOTE TO THE COMMUNITY OFFICER

1. Explain the various steps in placing the vent pipe in the structure
2. Demonstrate the various steps in placing the vent pipe in the structure

ANSWERS:

1. **Placing the vent pipe**
 - Place the vent pipe through the vent hole cast in the concrete latrine slab
 - Make a hole in the roof for the ventilation pipe to pass through

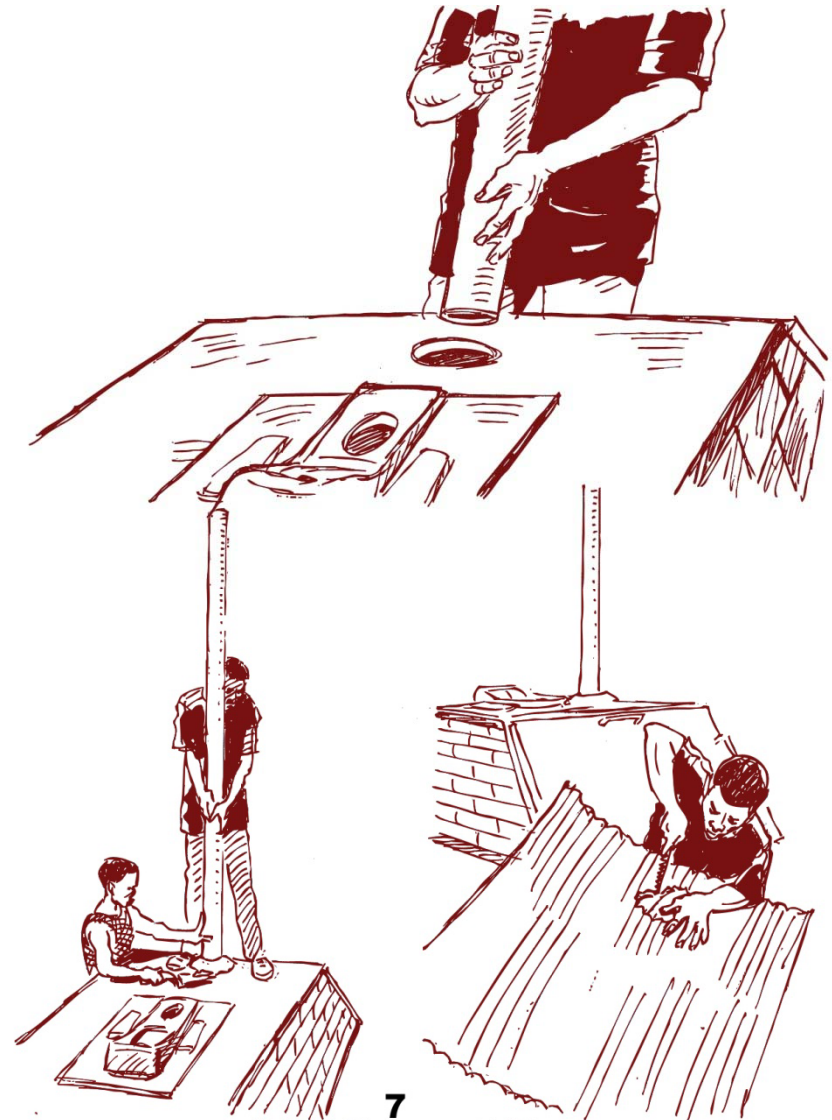


ILLUSTRATION 8

How to build the superstructure

NOTE TO THE COMMUNITY OFFICER

1. Explain the various steps in making the superstructure
2. Demonstrate the various steps in making the superstructure

ANSWERS:

1. Making the superstructure

- Can be made from timber, bricks, metal sheeting, grass or any material that offers privacy
- Use suitable roofing materials such as galvanized corrugated iron, thatch or precast concrete
- Make a hole in the roof for the ventilation pipe to pass through
- Create openings through the structure to provide ventilation and light

