# How to build a jug tank (tangi la mtungi) of 2500 litres for rainwater harvesting 

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Photos: Eija Soini
Materials:


- Cement 6 bags
- Chicken wire 6 m (if 180 cm wide, 10 m if 90 cm wide)
- Sack cloth 10 m
- Sand 40 buckets/debe
- Gravel 2 buckets/debe
- Bricks 20 or stones only for the foundation
- Pipe, GS pipe $3 / 4,6$ inches long with a bracket welded at the end
- Lime $1 / 2$ sack ( 10 kg )
- Sawdust/rice husks/sand to fill

How to build:
Sew the sack material as follows by sisal string:
Join the two widths of the material to get a total width
of 230 cm (this is the height of the tank up to the mouth
ring)
Sew the two diagonal sewing lines so that the bottom
with becomes 140 cm and the top end 220 cm
Make the top end narrower by sewing its sharp corners
off from 175 cm height from the bottom

|  | Use pegs and wire to keep the construction together. |
| :---: | :---: |
|  | Mix mortar with a ratio of $1: 3: 5$ (cement : sand : gravel). <br> Pour water on the construction. |
|  | Then start adding the mortar on the foundation stones. |
|  | Making sure it goes to the gaps between the stones. Use a wooden trowel. |






| This is how the lid looks like. |
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