

CHALLENGE

Functional group facilities are key for daily handwashing and toothbrushing activities in schools.

An ideal prototype group facility should...

- be affordable in low-resource settings;
- make use of materials that are widely available;
- be functional independently of access to piped water or water pressure;
- accommodate at least 10 children;
- use water economically;
- be durable for 5 years;
- require no sophisticated skills and tools to be constructed.

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FIT FOR SCHOOL

Make WASH Happen

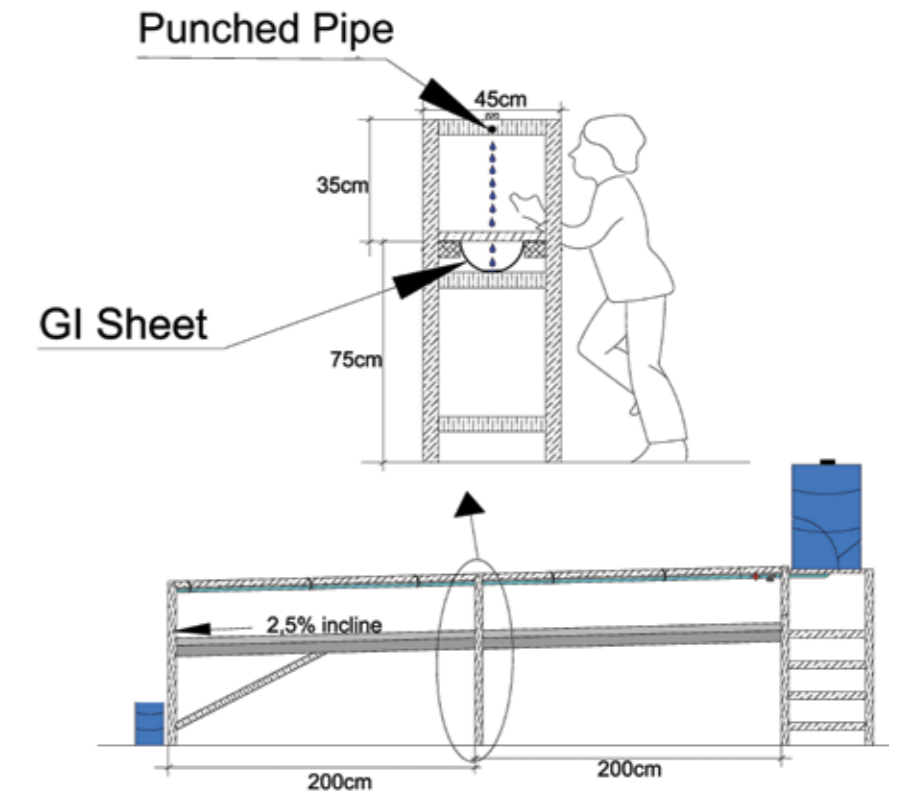


FEATURES

- Material costs don't exceed PHP 1,800 (< USD 40)
- Materials used (wood, GI sheets, PVC piping) are widely available
- Fully functional even without access to piped water or constant water pressure
- Accommodates up to 20 children when accessed from both sides
- Water consumption for handwashing of 20 children is 2 liters and additional 2 liters for toothbrushing
- Durable for at least 5 years given proper workmanship, including polishing and painting of wood



TECHNICAL DRAWING



DETAILED LIST OF MATERIALS

- 2 wooden beams (1x2x8), 13 wooden beams (2x2x8)
- 1 water container (min. 30l)
- 2 Pipes (3m in length each), 1 socket, 1 elbow, 1 coupling, 1 T-piece, 1 faucet, 1 coupling with valve, 1 cap (all PVC, 1/2 inch in diameter), 2 rubber gaskets
- 2 GI sheets (3x8)
- 1.5 kg nails
- 2 liter paint, 1 liter paint primer
- 1 roll of wire