



engineers without borders  
ingénieurs sans frontières

# ETHIOPIA



## General

Area:	1,097,000 km <sup>2</sup>	Population:	62,565,000
		Urban:	18%
		Rural:	82%
Main Language:	Amharic, English	Growth Rate:	2.5% per year

## Water Resources

Rainfall:	865 mm	Total water use	
Total water withdrawals:	48 m <sup>3</sup> /cap/year	Domestic:	11%
		Industrial:	3%
		Agricultural:	86%

## Health

Life expectancy:	43.3 years
Infant mortality rate:	115 infant deaths/1000 live births
Child mortality rate:	184 child deaths/1000 live births

## Literacy

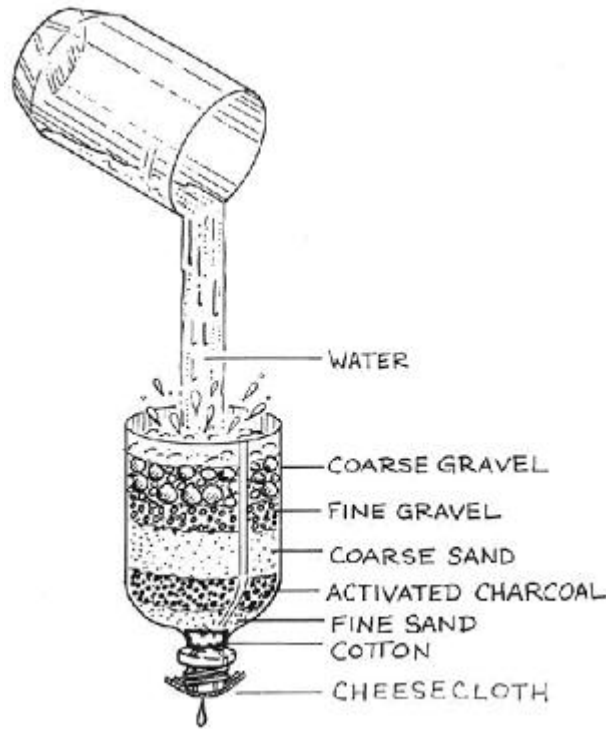
Adult literacy:	37.4% of population age 15 and above
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## Economy

GDP per capita (PPP US\$)	\$628
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# Instructions

1. Loosely pack the material in the bucket & cut a piece of cloth, cover the bucket of material with a piece of cloth of material.
2. Pack a 1-cm thick layer of fine sand, followed by a layer of charcoal, a layer of coarse sand, gravel, and a layer of cotton.
3. Clean the gravel by pouring 1-litre clean water (over a bucket).
4. Place the gravel over a plastic cup. Test the water by pouring dirty water through the filter.



## Cost of Materials

Activated Charcoal	\$50/cup	Rubber Band	\$5 each
Cheesecloth	\$5/square	Sand, Coarse	\$20/cup
Cotton	\$5/ball	Sand, Fine	\$20/cup
Gravel, Coarse	\$10/cup	Water, Clean	\$10/litre
Gravel, Fine	\$10/cup		