



Clean Water Project: **Focus on South India**

Bio-Sand Filter Clean Water Project

Sponsored By:

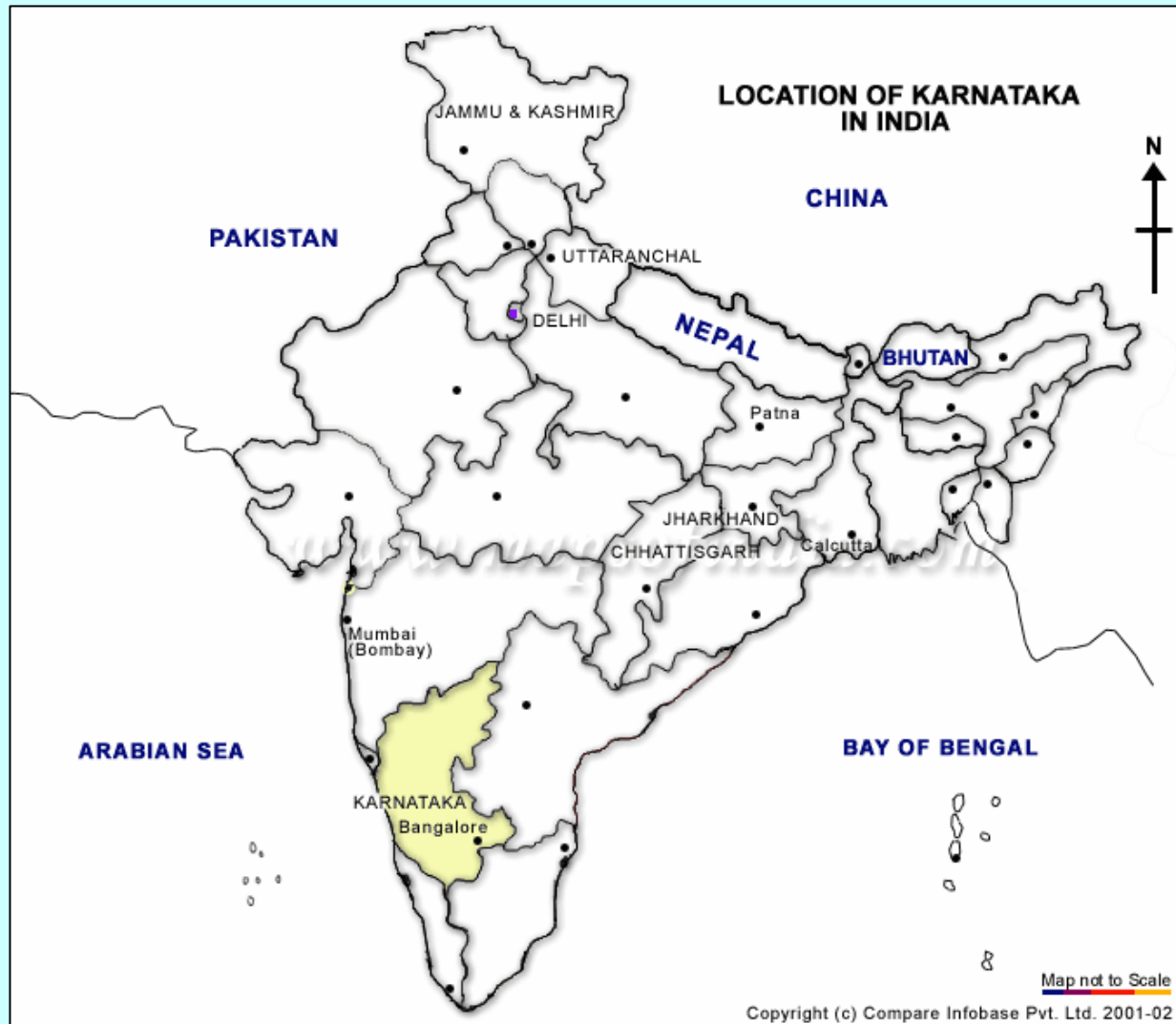
South Asia Pure Water Initiative, Inc.



The Facts About Dirty Drinking Water

- **80% of the world's illness is related to dirty water supply and poor sanitation**
- **5 million people die each year from contaminated dirty water and inadequate water treatment**
- **In India, over half of the population has no access to clean drinking water (505 million people)**

Clean Water Gives Life in India



India is Colorful!



India is Exotic!



India is Poor!



India is Thirsty for Clean Water!



Kolar District- High, Dry and Rocky



Kolar Municipal Water Delivery

Most Kolar town residents get unsanitary household water from trucks filled from municipal deep wells and ponds. Water is untreated and the trucks are poorly maintained.



Kolar Rural Water System

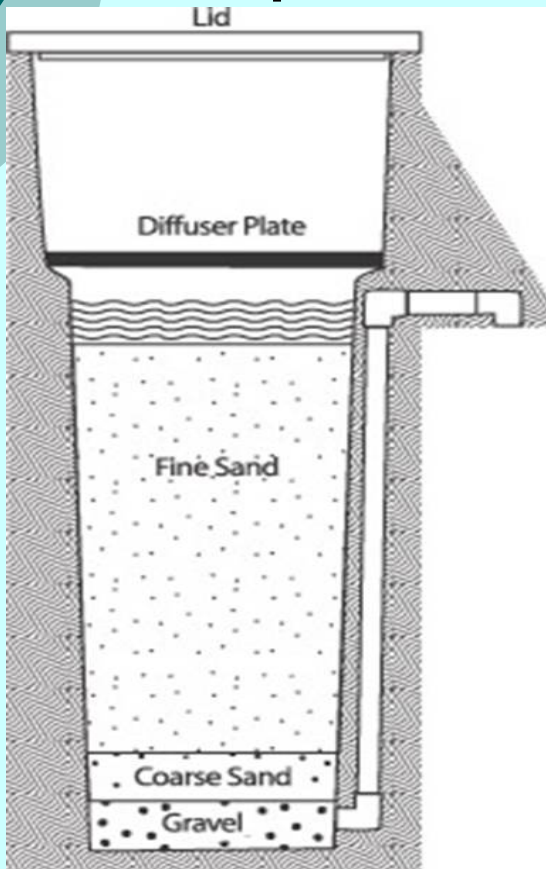
Villagers get unsanitary household water from deep bore wells piped to local storage tanks. Some villagers use ponds for their household water.



Bio-Sand Filters

A Practical Household Solution to Clean Water!

A concrete filter with layers of sand and gravel eliminates impurities as water passes through.



1. Water is poured into the top.
2. Diffuser plate evens flow into the sand bed.
3. Bio layer preys on the pathogens.
4. Water passes down through layers of sand and gravel.
5. Clean water flows from spout immediately at one liter per minute.

Simple and Effective!

The Bio-Sand filter removes:

- 100% of parasites, protozoa and worms.
- Over 95% of bacteria.
- 99-95% of zinc, copper, cadmium and lead.
- Over 67% of iron and manganese.
- Over 47% of arsenic.
- All suspended sediments.

The Economics of Dirty Drinking Water

- **Due to poor water quality, intestinal diseases are widespread and households spend scarce financial resources on medications and doctors rather than on food, clothing and shelter.**
- **Water-borne disease creates a further financial hardship to families because adults miss days of work and children miss vital schooling that eventually adds to the household income.**
- **The overall quality of life for an Indian family is reduced from of the lack of pure household water.**

Kolar Workshop Builds the Worlds Best Bio-Sand Filters



Kolar Workshop Builds the Worlds Best Bio-Sand Filters





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Presents:

ADOPT-A-VILLAGE "PARTNERSHIP"

Example: Chilapanahalli

Here is Chilapanahalli.....

Sponsored by the Rotary Club of North Haven.

Adopt-A-Village Partnership Gives Chilapanahalli:

- Villagers purchase up to 30 Bio-sand Water Filters at a subsidized rate
- Sponsor donates up to 60 filters to the Village
- A Water and Sanitation Program for the Villagers and children
- Filters in the Schools and Early Learning Center
- A trained “Community Steward” to Help the Villagers

Here is Chilapanahalli.....

Most families have income of \$120 annually!



Here is Chilapanahalli.....

Children and adults suffer from water borne diseases



Here is Chilapanahalli.....

Farm laboring is the major occupation



Here is Chilapanahalli.....

Ninety families now enjoy pure water!!



Here is Chilapanahalli.....

Clean water at school and home!!

Two filters were installed at the early childhood learning center and the village grammar school.



Here is Chilapanahalli.....

Young and old, villagers learn proper water care and sanitation through music and skits!!!



Here is Chilapanahalli.....

Soap is distributed to all the village children as part of the water care and sanitation educational program.



Here is Chilapanahalli.....

A granite plaque insures that The Rotary Club of North Haven will be in the minds and hearts of Chilapanahalli forever!!

