**Working of drainage management system**

The drains will originate from each house,and will merge into a centralized drain in each society or village, then this drain will go into the main sewage treartment plant of the city, or in case of village, there will be one treatment plant per “panchayat”.

From there after treatment of sewage, clean water goes to the algae pond.

Now at each house, there is a simple net placed between the interface of house drain and the sewer drain, which separates coarse impurities, like plastics,etc. Then during the flow of sewage water inside the drains, it slows down due to the concrete blocks which gives enough time to the fine but insoluble impurities to settle down in the drain itself, and also some water seeps through the charcoal bed and the sand bed directly to the ground(as there’s no concrete layer between sand and soil bed) which will prove vital for the soil around the drains as it makes the soil fertile for plantation(A very important side benefit). The charcoal also absorbs foul smell from the drains.and if any person feels that the drains in his/ her locality needs to be cleaned , he/she can g onto the website, developed by us, and make a request.

The direct benefits of this new drain architecture will be the following:

* There will be a much needed proper structure for waste management in the authorities and this will result into a better and clean country, and further world.
* There will be rise in the groundwater level due to the continuous seepage of water int the soil, and this will help in dealing with another very dangerous problem,the continuous decline of the ground water levels.
* Also in the area in affinity of the drains, the fertility of the soil will increase which will result into more greenery on the planet.

Now after the sewage reaches the sewage treatment plant, it gets treated and the clean water goes into a algae pond.

The sludge(waste generated after sewage treatment) is then sold to farmers at very low prices, as it acts as a very good natural fertilizer.This will help the farmers as it will eliminate the need to buy costly fertilizers from the market and also help the rural economy in a positive way, as cash flow will increase.

Now in the algae pond, this water is oxygenated and naturally purified also, which helps in the healthy growth of the pond ecosystem.

Also this will again indirectly help in groundwater level replenishment.