

Aquatron® is a highly scalable and tested product that has immediate effects and benefits to the country and environment at large. By adopting Aquatron® Government of India can save hundreds of thousands of crores across the state and central government department budgets. The key benefits of Aquatron® would be:

1. No expensive capital investments into STPs which still produce Sludge that needs to be further dumped into landfills. Aquatron® completely removes the problem of sludge creation. You can get to ZERO sewage waste within 3 minutes by installing Aquatron®.
2. No requirements to relay thousands of km's of drain lines across India or even create new ones by digging roads and laying larger pipelines which is the current extreme need of the hour. Aquatron® ensures that no solids will be transported in the drain water pipelines and hence the existing line of the pipelines will be easily extendable for another 100 years, as effectively we are now only transporting water which occupies less volume compared to solids.
3. No trapping of gases in drains due to lack of faecal solids in the drain lines. Many deaths can be saved every year as there will be absolutely no need of any manhole maintenance works to handle solid related blockages.
4. This has other benefits in that during rainy season the excess water will have a SAFE channel to use and go away without bringing out highly contagious pathogens into contact with humans. This ensures that waterborne diseases are reduced to a minimum. Also, flooding will reduce as drains are free to evacuate the rain water instead of being blocked with solids that create air pockets.
5. No Manual Scavenging – Complete elimination of sludge and hence ZERO need for night soil evacuation as waste is arrested at site and completely decomposed to organic manure. This is a huge social benefit of Aquatron®. All the Safai Karmacharis will have great benefits to a more humane working environment.
6. Aquatron® with its compact STP technology can allow toilets to be constructed along highways, remote forests, hilly terrains, regions with high ground water tables and many other remote and compact urban areas of new development with efficient treatment of faecal waste at source. The problems of laying new lines to remote areas or bringing heavy electricity-intensive STPs into remote areas will be removed. This will allow also the longer usage of toilets as there is no flow back from a septic tank. No smell or odour in the toilets from leech pits and or near the existing STPs in urban or developed areas and everything is very hygienic and easy to operate.
7. Aquatron® ensures 100% reuse of water. India loses immeasurable amount of water due to the non-segregation and treatment of faecal bacteria at source. Our lakes, rivers and water sources get contamination due to faecal matter. Aquatron® will immediately arrest the contamination of all our water bodies and bring about a sea change in the availability of water quality. Currently the average per capita across India per person per day is 200 liters of water with an extreme pressure for more water every day due to the rapid growth of our country. We lose >50% of this water every day due to our inability to treat and arrest further contamination. Using Aquatron® if adopted across the country we can save instantly a minimum of 30 Billion Liters of water every day even if only 300 million of our citizens have their WCs connected to Aquatron. If our entire nation adopts this technique then the benefits are much larger.

8. Water that is received after separation from Aquatron® is highly nutrient-rich and is the right combination required for farmers to get the required Ammonium, Nitrogen and other nutrients to their plants and soils. The need for farmers to use borewells excessively will be reduced and also in summers some form of irrigation can be provided to areas with complete lack of water resources. We can reuse the water both in rural and urban areas for the use of farmers and garden irrigation. We can replenish our groundwater tables and secure more time by increasing our water budget by 100% reuse. Also the need for farmers to buy urea and other fertilizers will be reduced and save each village household many thousands of rupees of debts per year in their farming input costs. Government will also save money as there will be lesser requirement for urea and hence lesser imports (petroleum) to produce more urea on a yearly basis. The human capital potential of Indians can be affectively mined (urea and nutrients) and hence save our resource budgets.
9. The most significant advantage of Aquatron® is that it is simple and it is something that does not need electricity, moving mechanical parts, knowledge of operations or any major maintenance barring minor monitoring on a monthly, quarterly basis. The problem of treating waste can be transferred completely from a problem that the Government has to tackle at the end of the line at huge costs and pressures to a simple solution at the source that should be adopted under the theme of My waste My responsibility that our Honourable Prime Minister has tried to enlighten us on.
10. In Public Institutions, Corporate Zones and Commercial areas alone, the reduction of waste can cause a huge difference to our country's environment and water systems and rivers. If premium residential layouts and zones are also brought into the purview of this system, these high per capita zones can save billions of liters of water for reuse. In these zones the cost of Aquatron® could be very economical to adopt at an average cost of @ 6000/wc as a one-time investment. This cost for an average SME office would be about 60,000 (across 10 toilets) but it would save the government the cost to transport, clean and manage 4000 liters of Sewage water every day from 1 office. If it's a large Mall, this can be extrapolated to much larger water figures.
11. Aquatron® has no limitation with the number of people for load calculations as the existing STP technologies do. Its beauty is that it can handle even a 1000 people peak load or just 1 person who use the same WC. It's highly scalable and unrestrictive in load balancing to achieve the required water quality. Therefore it is highly cost effective for the citizens to adopt it themselves. It requires very minimal space too.