



SEWAGE AND WASTE-WATER MANAGEMENT USING ECO-TEC PROCESS

**AN ECO-FRIENDLY, SAFE, HERBAL-BASED SOLUTION TO CONVERT
WASTEWATER INTO DRINKING GRADE WATER FOR RE-USE**

A PROPOSAL FROM

Ecohealth
PRODUCTS PVT LTD

ECOHEALTH PRODUCTS PVT LTD, a Chennai based company has pride in introducing EcoTec Process using two very effective reagents, **ECOCLEAN-20** and **ECOCLEAN-50**, which when used in tandem will clarify sewage and industrial effluents and destroy bacteria to the extent that the water gets converted into drinking grade.

ECOCLEAN-20 used in combination with **ECOSD-P** (a Poly electrolyte compound), is an ideal organic coagulant and flocculating reagent for separating dissolved and suspended solids and removing colour and mal-odour from sewage, dying unit effluents and industrial effluents. It causes the sludge to sediment, leaving the upper water crystal clear. The sludge, unless contaminated with chemical toxins, would constitute an effective fertilizer. **ECOCLEAN-20** is a combination of water soluble cationic polymers and herbal additives formulated in the form of a hydrated solution. It is a cationic coagulant for clarification of water (see detailed product description).



Sludge separates from sewage water to which ECOCLEAN-20 has been added



Crystal clear sewage water, 20 minutes after treatment with ECOCLEAN-20

ECOCLEAN-50 is a wonder reagent that can convert India's polluted waterways, rivers, ponds and lakes into **pure, bacteria-free drinking grade water**. It is an effective bio- bactericide, fungicide and larvicide effective against all forms of bacteria including e-coli, aphids, thrips, whiteflies, mites, fungus gnats, beetles, moth larvae, locusts and nematodes. However, it is not harmful to mammals, birds, fish, earthworms or beneficial insects such as butterflies and honey bees. Developed after over two decades of painstaking research, **ECOCLEAN-50** is a proprietary, organic water-purifying reagent. **It is a combination of copper mixed complexed compounds and versatile micro Biocides and Herbicides. It is extremely useful for the control of algae, fungi, bacteria, etc (including E-coli and other fecal coliforms) during treatment of sewage water and highly polluted water apart from drinking water treatment.**



SEWAGE TREATMENT USING ECO-TEC PROCESS: Release of untreated sewage is perhaps the most heinous of acts as this is done with the active connivance or concurrence of Government agencies and the local bodies like municipal corporations and *panchayats*. Most sewage treatment plants put up by various state governments are dysfunctional and exist more as sewage collection plants, which then let out the combined sewage of an entire town or city into a river or water body with minimal or no treatment. Little wonder most rivers and lakes in India are so polluted, posing grave danger to the health of people living further downstream.

Fully functional Sewage Treatment Plants where sewage is treated with **ECOCLEAN-20** and **ECOCLEAN-50** before being released into the river or any other water body would clarify the water and remove bacteria and e-coli residue in the sewage.

The process of integrating **ECOCLEAN** in the sewage treatment process is extremely simple. **ECOCLEAN-20** has to be added to the sewage after the screening process is completed to separate solid substances such as metals, wood, glass, plastics, etc, by making use of a simple dosing pump. 30 to 40 milliliters of **ECOCLEAN-20** is required for 1000 liters of untreated sewage (30 to 40 ppm).

Immediately on addition of **ECOCLEAN-20** along with **ECOSSED-P**, the sludge in the water begins to separate and precipitate. The mal-odour is also substantially arrested. The sludge that is produced can be pumped out using a centrifugal sludge pump and transported away for use as fertilizer. The effectiveness of the manure can be heightened manifold by the addition of chelated micronutrients to it.

After all the sludge has been sedimented, the water can be filtered and then dosed with **ECOCLEAN-50**. Just 30 milliliters of **ECOCLEAN-50** is required to treat 1000 liters of sewage water (30 ppm). **ECOCLEAN-50** neutralises the salts of calcium and magnesium rendering the water soft. It helps chelate and remove heavy metals, if any, that may be present in the water. It also totally eliminates all bacterial colonies including fecal coliforms like E-coli, making the water bacteria-free and safe for re-use for irrigation and even drinking after it is passed through sand and activated carbon filters.

USES OF TREATED WASTEWATER : Water treated by the ECO-TEC process is of drinking grade. However, globally there is a mental block against consuming treated waste water, though such water is being used for drinking in countries like Japan and Singapore.

Water treated by the **ECO-TEC** process is therefore suggested for all other secondary uses such as:

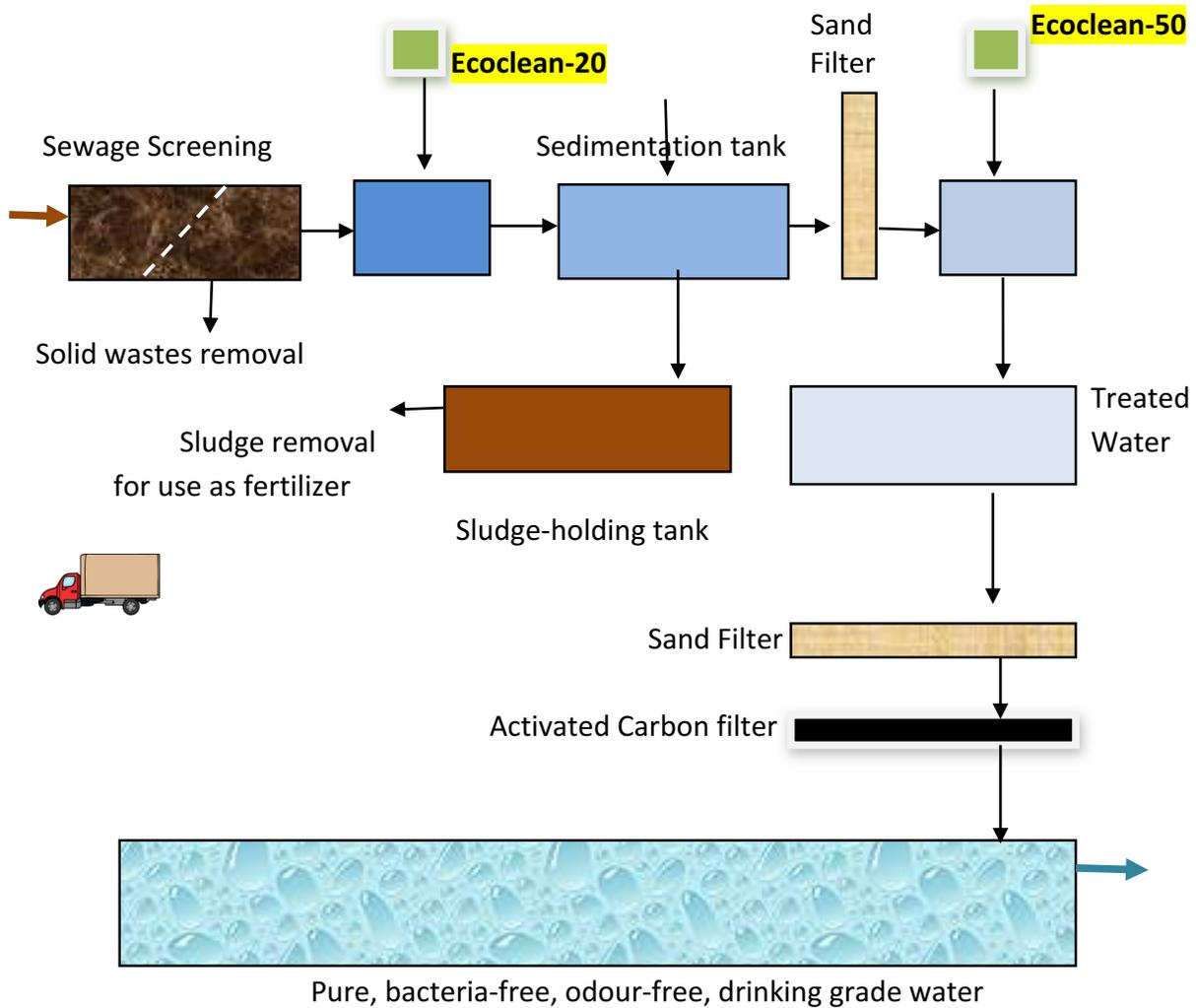
- Gardening, landscaping and irrigation
- Cooling Tower
- Laundering
- Washing of vehicles
- Flushing in toilets
- Bathing
- Industrial uses (boilers, coolant, solvent)
- Construction
- Regeneration of natural aquifers and groundwater
- Regeneration of lakes, ponds and other water bodies

WHERE ECO-TEC PROCESS CAN BE USED : The Eco-Tec process can be employed for treating sewage and waste water in any of the following places where large quantities of sewage or waste water is generated:

- Hospitals
- Hotels and resorts
- Apartment complexes and housing colonies
- Large office establishments
- Shopping malls
- Schools, colleges and educational institutions, especially those with hostels
- Industrial units producing waste water
- Municipal sewage treatment plants

ECO-TEC PROCESS FOR SEWAGE TREATMENT

(Flow Chart)



The **Intellectual Property Rights** of the products vest with **Ecohealth Products Pvt Ltd** represented by its Directors and are protected as a Trade Secret as stipulated by WIPO.

A **#MadeInIndia** Technology after over two decades of research. The **ECOCLEAN** combo is a revolutionary, edible grade, eco-friendly reagent for purification of polluted water bodies and rivers to give pure drinking grade water.

DO YOU KNOW?

**Reclaimed sewage,
branded as NE Water, is
sold in Singapore as
drinking water**

