

**BIOMIMICRY
TECHNOLOGIES
PVT. LTD.**



*Towards
Cleaner
Future*

BIOMIMICRY TECHNOLOGIES PVT. LTD.



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INDIA AND WATER CRISIS

India has only 4% of the world's freshwater resources despite of having 16% of the world's population. According to Central Ground Water Board data of 2017, out of 700 districts, 256 have reported groundwater levels that are "critical" or "over-exploited." The "Atal Bhujal Yojana" was introduced by the Indian government to aid in better groundwater management. India accounts for 25% of all groundwater extraction worldwide. Our tanks, ponds, and wells have dried up as a result of this.

Groundwater extraction is still tough, but recently another challenge serious pollution of our rivers—has emerged. Our ability to manage waste generation has been hampered by rapid urbanisation, which has put a strain on our sewage and effluent treatment facilities. As a result, untreated sewage has been thrown into several rivers, including the Ganga, the Yamuna, and others.

The water crisis has contributed to a few societal problems, such as the economic situation and the marginalisation of women.



URBAN PURE

A SMART DEVICE FOR SMART SOLUTION

Technology driven water management company **Biomimicry Technologies Pvt. Ltd** has designed and development such a system which can treat drain, sewage, and effluent water "in situ" and produce water that is easily usable for construction and gardening.



ADVANTAGES

Urban Pure is modest, modular, solar-powered, fully automated, and can be tailored to your specific needs and water quality.

Urban Pure can be scaled up or down to treat greywater, effluent water, or sewage water.

TECHNOLOGY

Urban Pure has been developed over three years with the help of knowledge transfer from IIT Kharagpur & BARC and since then it has been consistently improving its performance. It uses hollow fiber membrane technology, a patented porous bio-beads based biological treatment, advanced oxidation techniques, and filtering. The device has been filed for a US patent.



WATER RECYCLE: NEED AND LEGISTATION

It is vital that developing new water sources is a big undertaking. The only technique that has been utilized to produce and treat water as a "one-stop solution" is desalination. However, the current distressing condition might be greatly improved by the reuse and recycling of waste water for "Non-potable" purposes. The National Green Tribunal (NGT) has outlawed the extraction and use of groundwater for both construction and landscaping. The NGT has also levied heavy fines against State governments for allowing untreated sewage to be discharged into rivers. This has caused numerous State and Central administrations to look for remedies.

