



APPLICATION BULLETIN INDIA – GANGES RIVER

The SkyJuice Foundation has co-operated with Oz GREEN on several projects in developing countries by providing low cost potable water solutions. The [SkyHydrant](#) (see specification sheet for further details) water filtration units were tested and deployed in 2005 by Oz GREEN at the Swatcha Ganga Environmental Education Centre on the banks of the Ganges River in Varanasi, India. This environmental education centre was profiled on 60 minutes, “The River Keepers” on the Nine Network Television when the program focused on the poor water available to the local people.

OZ GREEN took the initiative, encouraged by the SkyJuice Foundation, to benchmark the performance of the hollow fibre membrane technology on the existing water supply from the Ganges River.

The in-field evaluation by Sue Lennox at the Swatcha Ganga Centre established the likely coliform and pathogen register of SkyJuice units on extremely degraded surface water. Several samples were taken and test slides, confirmed log 6 register of bacteria. Incoming feed water was 79,000 cfr/100ml with zero counts in the filtrate.

It is emphasized that the unit used has no chemical disinfection stage and relies entirely on 0.1 micron UF membrane barrier for complete physical separation of particles and removal of organisms. The tests were repeated with identical tow results.

This exercise has validated the sustained performance of a non-chemical system to reliably produce ‘bacteria free’ water under extreme feed water conditions of high turbidity, high coliform and organic loads and suspended materials.

Ganges River, Varanasi, India



Water filtration test results showing zero counts in the filtrate



NOTE: The SkyJuice Foundation does not endorse the unregulated consumption of water from large polluted rivers or water bodies and would always suggest that a full chemical analysis is undertaken on all potential feed waters