

'Urban Wastewater Reuse'

Under "JAL SHAKTI ABHIYAN: CATCH THE RAIN" Campaign



National Water Mission

Ministry of Jal Shakti

New Delhi

Urban Wastewater Reuse

Under Jal Shakti Abhiyan: Catch the Rain campaign, it is very essential to segregate grey water (waste water coming from the Kitchen, laundry, shower, floor cleaning, etc.) and black water (waste water coming from Toilet) through different drains at household level to avoid mixing of them and reuse grey and black water separately after providing appropriate treatment to them individually for groundwater recharge and agricultural purposes.

Grey wastewater can be easily re-used for filling of the new or rejuvenated water bodies as well as ground water recharge through bore wells following the water quality standard as prescribed by **Central Pollution Control Board** and **Central Ground Water Authority** simultaneously. The guidelines for reclaimed waste water (black water) reuse could be applied to grey water, too, as long as no grey water guidelines exist. Because grey water doesn't include faeces and therefore is less polluted, the parameters set in the reclaimed water guidelines (for example faecal coliforms, BOD and others) can be easier met by grey water than by reclaimed water.

Municipalities to pass by-laws for the separation of grey water and black water at collection site and provide appropriate treatment technologies for Grey water (Magic Pit, Wastewater Stabilization pond, Constructed Wetland, Baffled Septic Tan, Phytoid Technology, Soil Bio Technology, Trickling Filters, etc.) and Black water (ASP, Oxidation Pond, MBR, MBBR, etc.) separately. Therefore, in urban areas, plans/approvals with time bound targets should be developed for waste water reuse for industrial and agricultural purposes. Plans need to be developed for at least one urban water body revival for groundwater recharge in the block or the city.
