CONSTRUCTED WETLANDS

Categorization of Technology

BIOLOGICAL ⟶ **AEROBIC** ⟶ **ATTACHED GROWTH**

Engineered Natural Treatment Systems using 'Phytoremediation'

Technology Brief

Constructed wetlands are engineered systems artificially developed to function in natural processes along with coexisting microorganisms to aid wastewater treatment. The design of constructed wetlands has been adopted by mimicking the natural wetland systems that are known to treat wastewater. The wetland vegetation and the microbial population present in media are the key functional units in constructed wetlands whose natural mechanisms assist in the removal of the contaminants present in groundwater or surface water. Constructed wetlands are less expensive than the competitive mechanized treatment technologies, and are simple to operate. Further, plants have the advantage of nutrient removal, attractive biomass yield, and can generate revenue. A number of variants of CWs are developed which might be used as per the land availability on site.