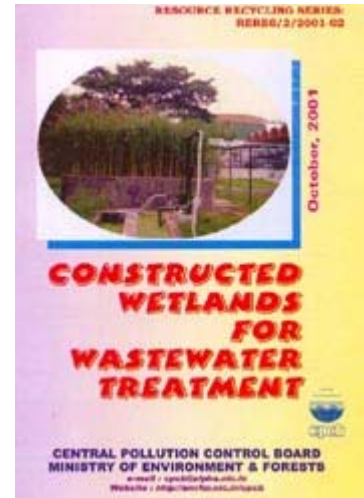


Constructed Wetlands for Waste Water Treatment

Foreword

Disposal of untreated urban wastewater has been a major cause of water pollution in India. Strategies for control of water pollution caused by municipal wastewater have focused mainly on implementation of expensive and energy intensive conventional treatment technologies. The limited successes of such strategies can be attributed to the high capital investment requirement, continual replacement and on-going operation costs of these 'concrete and steel' facilities, which often goes beyond the financial grasp of most of our towns and cities. The criticality of cost-effective, appropriate wastewater treatment technologies for water pollution control in our country, hence, needs no emphasis. In recent years, constructed wetlands systems have emerged as a low-cost high-performing wastewater treatment technology in many European and American countries. There is a growing interest to develop and adopt this technology for water pollution control in India as well. This publication provides a detailed overview of the concepts, pollutant removal mechanisms, engineering design, construction, operation and maintenance of constructed wetlands for wastewater treatment.



We hope this publication will bring broader understanding of the concepts of constructed wetlands for urban wastewater treatment, thereby, promoting wider application of the technology.

A handwritten signature in black ink, appearing to read 'Dilip Biswas'.

Dilip Biswas
Chairman, CPCB