



FLOOD ALLEVIATION & MITIGATION AND DESIGN OF MACRO DRAINAGE, MICRO DRAINAGE AND WATERWAYS FOR CHENNAI CITY

Location	:	Chennai Metropolitan Area, Tamil Nadu, India
Type	:	Storm Water Drainage
Client	:	Corporation of Chennai, Tamil Nadu
Completion	:	February 2009
Scope of Work	:	Detailed Project Report
Project Cost for four drainage basins:	:	₹ 1,448 crores

Technical Data

Total Area	:	173.60 sq. km
Length of Macro & Micro Drains	:	953.74 km

Other Information

The flat profile of Chennai city and the intrusion of backwater from the sea were critical issues in the design of the stormwater drainage system. The project duration was revised to 6 months as against 9 months as envisaged earlier by the client. The project was completed within six months including obtaining permissions from JNNURM for four drainage basins which is a record in JNNURM projects. The designs were carried out using US EPA's SWMM software integrated with GIS. This was the first time that the SWMM software was used in India for a project of this magnitude.

