

# Case Study

On

**DESIGNING OF ECOLOGICAL CHANNEL / URBAN SUSTAINABLE  
DRAINAGE SYSTEM OF LATEST DESIGN & TECHNOLOGY AT  
CLIENT SITE, HARYANA (INDIA)**

BY

**Life GREEN SYSTEMS**

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## Ecological Channel / Urban Sustainable Drainage Installation

**Client's Industry :** Automobile

**Solution Offered:** Ecological Channel / Urban Sustainable Drainage System

**Location:** Haryana, India

**Project Completed:** Nov, 2014

Life Green Systems' ecological channel system provides permanent underground waterways that restores water quality and recharges the natural environment. The underground Life Green Systems channel system provides a unique way of working with nature to solve the enormous problems currently associated with open concrete channels.

As per client's requirement, we installed Life Green Systems' Ecological Channel / Urban Sustainable Drainage System at their company premises. The ecological channel is hollow from inside and wrapped with geotextile. The property of the geotextile is to avoid soil insertion and allow surrounding water to insert to Life Green Systems Ecological Channel. The design is based on seeping water from the earth which will route through Life Green Systems' Ecological Channel after getting percolated through geotextile which has wrapped the entire channel. Top surface is covered with landscaping that offers aesthetic feature to the overall design.

### **The design solution includes:**

- Area: 92625 sqm
- Water capturing capacity: 600 cum
- Length of Ecological Channel: 1100 meter

## Installation of Life Green Systems' Ecological Channel / Urban Sustainable Drainage System



Initial site before installation of Ecological Channel



Excavation Process





Base Preparation / Soil Dressing



LifeRain™ Module Installation



Cutting & Laying of Geotextile



Geotextile wrapping of LifeRain™ Modules





Geotextile wrapping of LifeRain™ Modules



Backfilling Process





Backfilling



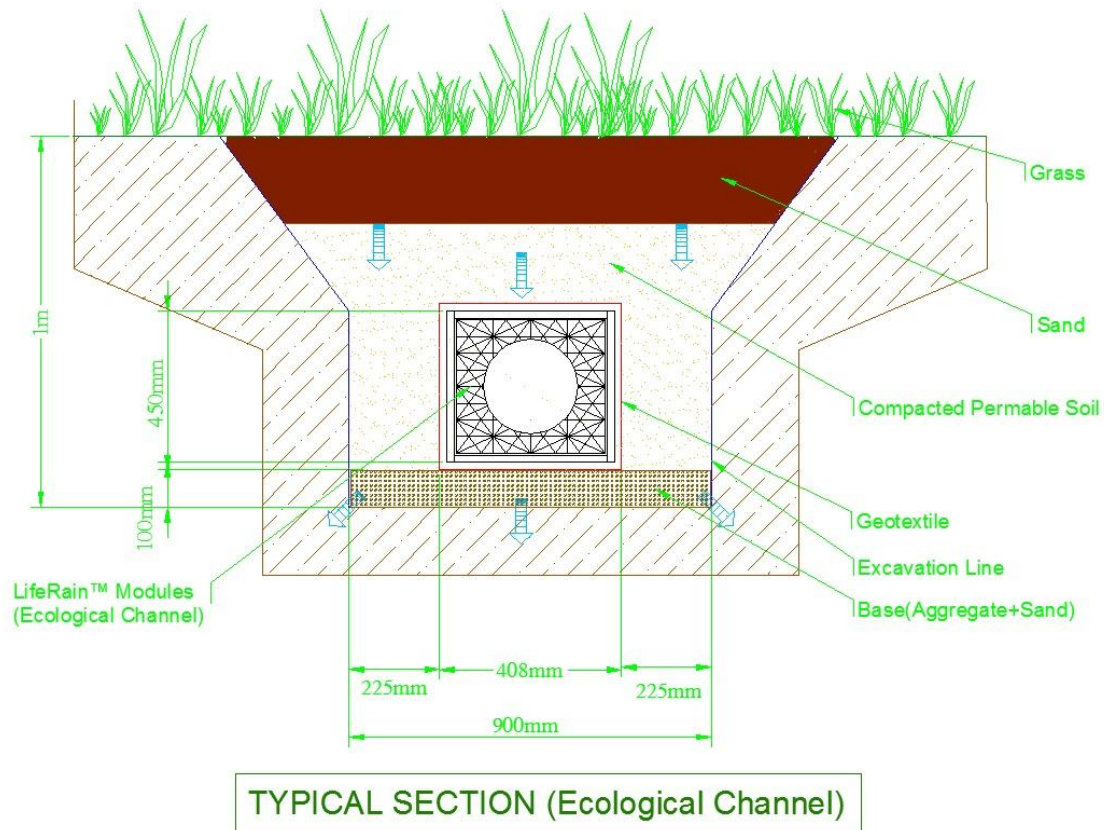
Final site after installation



Final site after installation of Ecological Channel



## Cross Section of Ecological Channel



Together we can work to achieve your water resource goals. We look forward to helping you find your balance.

Visit: [www.lifegreensystems.com](http://www.lifegreensystems.com)

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