



# LIFE GREEN SYSTEMS

Green Cities | Clean Waters | Better Life

Modular Rainwater  
Harvesting – Store and Reuse /  
Underground Water Storage  
LifeRain™ Tank by Life Green  
Systems

## Case Study

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Life Green Systems R- 42, Basement, Greater Kailash – 1, New Delhi: 110048, India  
Tel: +91-11 – 47541762, Websites: [www.lifegreensystems.com](http://www.lifegreensystems.com), [www.liferain.net](http://www.liferain.net)

***Table of Contents***

***Page No.***

Introduction to Life Green Systems	3
Project Details	4
The Design Solution	4
Technical Description	5
Project Installation Images	5,6
Cross Sectional Drawings	7,8
Quick Product Attributes	8

## **I**ntroduction about Life Green Systems Limited



Established in 2000, Life Green Systems (LGS) is a Sustainability expert assisting its Clients and partners in planning, designing and implementing innovative Green solutions to our pressing problems. Our Clients include Architects, City Planners, Builders & Developers, Multinational companies and other end users.

We provide cutting edge technology and customer friendly consultation, along with execution of projects related to – *Modular Rainwater Harvesting, Urban sustainable Drainage System, Storm Water Management, Artificial Recharge, Hydrogeological Study, Rainwater Harvesting Consultancy, Rooftop Gardens, Vertical Gardens, Pond and Lake Development, Grey/ Wastewater Treatment and many more.* Our products and solutions qualify for Green Ratings, obtaining Carbon Credits as well as LEED points.

**Enquiry:** +91-11 – 47541762

**Support:** +91 – 844 7751 048, 844 7751 223

**Working Hours:** Monday to Saturday

**Service & Support:** [info@lifegreensystems.com](mailto:info@lifegreensystems.com)

**Websites:** [www.lifegreensystems.com](http://www.lifegreensystems.com)

[www.liferain.net](http://www.liferain.net)

Supply and installation of Modular Rainwater Harvesting using LifeRain™ Modules and LifeRain™ Micro Filters at a leading IT & Software Development Company. A parking area has been built over the top surface of tank after completion of the project.

**Industry:** Information Technology

**Project Location:** Hub SEZ, Sector-126 Noida Noida, Uttar Pradesh

**Date of Commencement:** 1<sup>st</sup> Aug, 2016

**Date of Completion:** 17<sup>th</sup> Aug, 2016

## **The Design Solution for Fresh Rainwater Management by Life Green Systems**

Life Green Systems has designed and installed modular underground water tank *at a leading IT & Software Development Company* based out at SEZ Hub, Noida. The client was looking for an innovative solution to curb rainwater wastage and for this reason a LifeRain™ underground water storage tank along with the two LifeRain™ Micro Filters have been successfully installed.

The project design and installation includes:

- Tank Size- 13.70Mtr. X 5.265Mtr. X 1.74Mtr.
- Tank Volume- 125.5 cum.

Material supplied and installed to cater the project needs:

1. LifeRain™ Modules - 125.5 cum.
2. Geotextile -536 sq.mtr.
3. HDPE Liner -268 sq.mtr.
4. Inspection Chamber with cover - 2 Nos.
5. Inspection Chamber without cover -10 Nos.
6. LifeRain™ Micro Filters (*Certified by GRIHA*) - 2 Nos



**LifeRain™ Micro Filter (Certified by GRIHA)**

## T echnical Description:

Modular Underground Water Storage Tank is designed with LifeRain™ Modules to capture rain water through infiltration, and then clean and filter the water through LifeRain™ Micro Filters before it is allowed to enter the storage tank. After completion of site the upper surface of the tank is used as a parking lot. The overall solution for rainwater storage or reuse consists of three basic elements:

- Inspection Chambers,
- LifeRain™ Underground Water Storage Tank
- LifeRain™ Micro filters.

Our modular tank system typically requires Geotextile fabric, HDPE Liner, Inspection Chamber for successful and effective installation. LifeRain™ tanks clubbed with filters are best to reuse the rainwater. Inside the tank water is kept at optimum conditions promoting aerobic activity within the tank. This prevents stagnation and growth of unhealthy anaerobic bacteria inside the tank.

## I nstallation of LifeRain™ Underground

Installation of LifeRain™ Modules and LifeRain™ Micro Filters by Life Green Systems







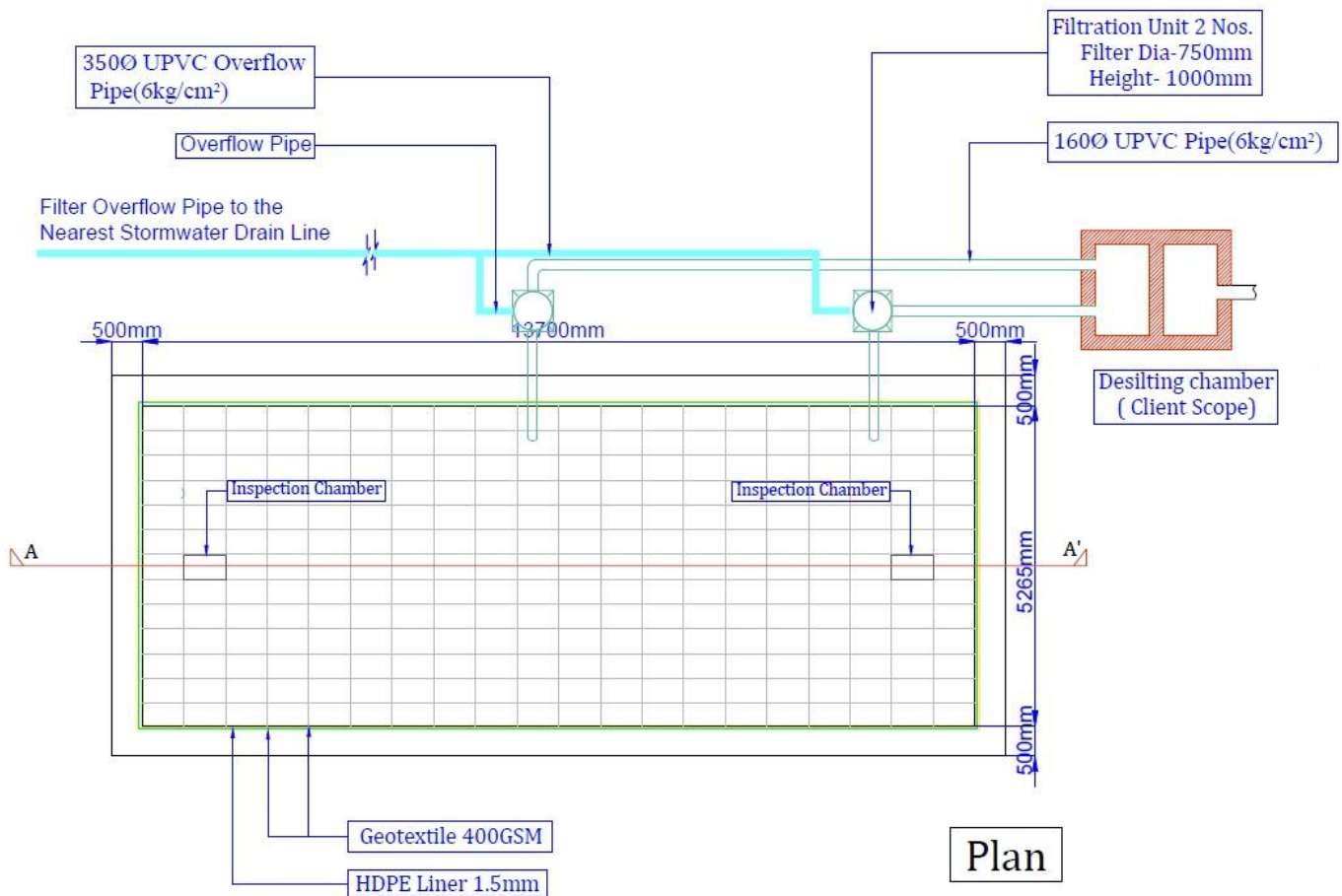
Wrapping of LifeRain™  
Modules with HDPE Liners  
and Geotextile.

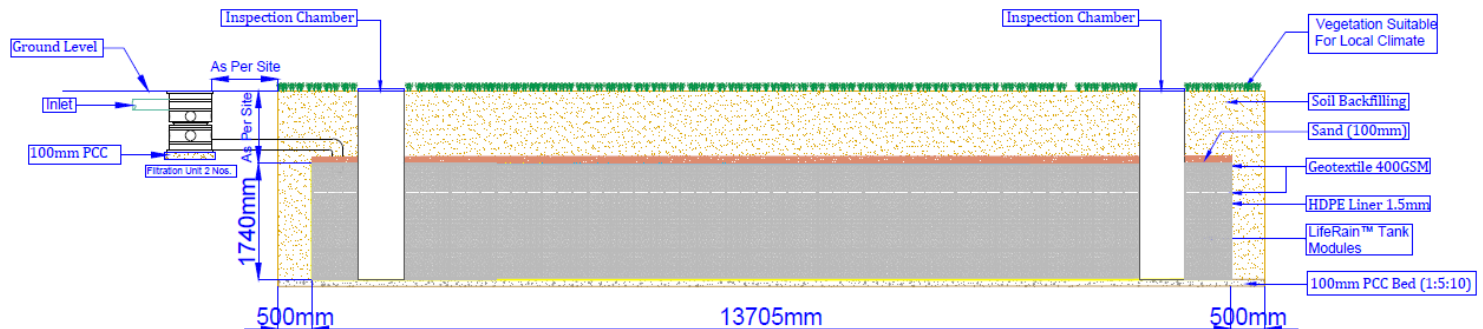


Installation of LifeRain™  
Modules with HDPE Liners,  
Geotextile and Inspection  
Chambers completed.



## Cross Section of Life Green Systems Underground Water Storage Tank:





SECTION

## Quick Product Attributes: LifeRain<sup>TM</sup> Tank for Modular Rainwater Harvesting

- Easy & low maintenance
- Quick installation & minimal civil work
- Cost effective
- Enhances water quality
- Unlimited water storage capacity
- Qualifies for LEED points / Green Ratings
- Strong structural design & lightweight modules
- High void ratio up to 96.5%
- Honey-comb structure
- Crush load capacity 20 Tons / sq.mt.\*
- Traffic bearing capacity up to 40 Tons / sq.mt.\*

\* With adequate backfilling

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

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

**Head Office:** R- 42, Basement, Greater Kailash – 1, New Delhi: 110048

**Tel:** +91-11-47541762, +91-8447751048

**Email:** [info@lifegreensystems.com](mailto:info@lifegreensystems.com) | **Website:** [www.lifegreensystems.com](http://www.lifegreensystems.com), [www.liferain.net](http://www.liferain.net)

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