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

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Introduction 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.

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www.liferain.net
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.
Technical 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.

Installation of LifeRain™ Underground
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™ 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.m.t.*
- Traffic bearing capacity up to 40 Tons / sq.m.t.*

* 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

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