

# InRain (ICPL) Rain Water Harvesting System

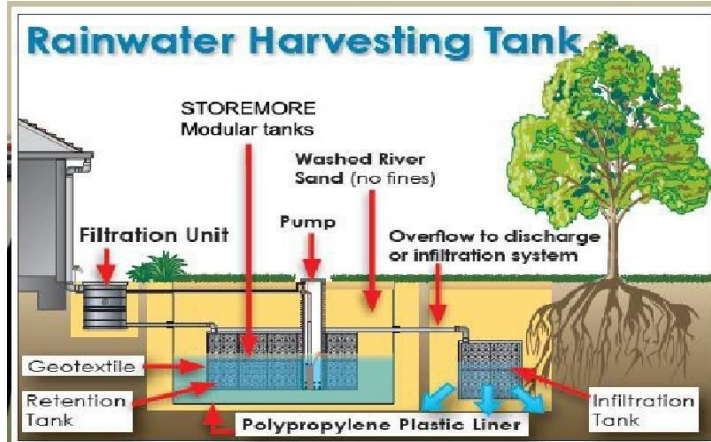
[www.inrainconstruction.com](http://www.inrainconstruction.com)



Govt. MSME APPROVED &  
ISO 14001:2015 CERTIFIED COMPANY

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Plot No.219, R.Ext, DLF Farms  
Chattarpur, New Delhi-74

# Group Profile



Modular Rainwater Harvesting System



Bridge Construction (Pile Foundation & Well-Sinking Bridges)



Irrigation & Flood Control



Road Construction  
(Pradhan Mantri Garam Sadak Yojana)

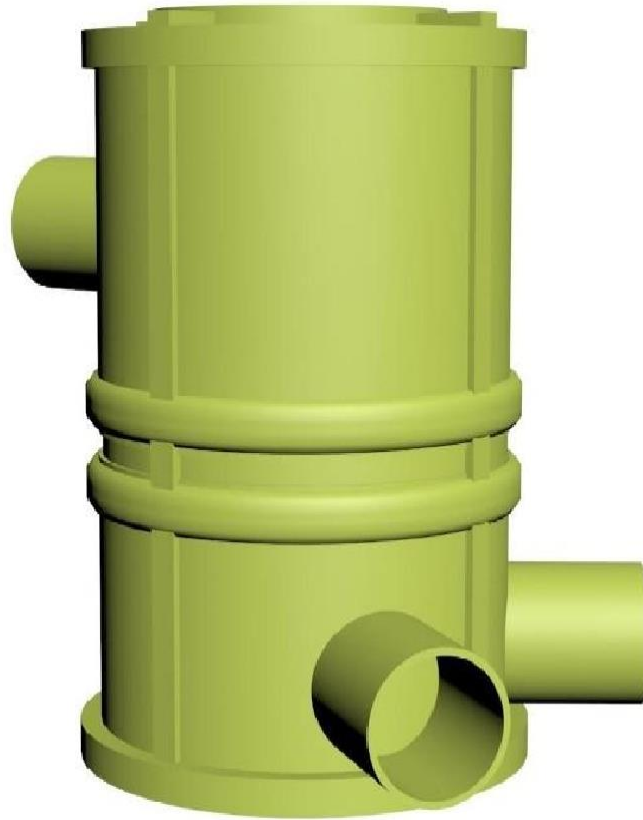


Pile Foundation Bridge  
Under PWD



Solar Pump Installation

## InRain Large Filtration Unit



# Accident free honeycomb structure/Tank



# Installation Process of Rain Water Harvesting



**Site for RWH**



**Excavation**



**Base Preparation**



**Laying of Geotextile**



**RWH Modules**



**RWH Modules**



**Back Filling**



**Completed Site**



# RAINWATER HARVESTING

With New Technique  
(Since 1987)

**ISO 14001..2015**

Excellence in "Rain Water Harvesting"  
(Indo-Australian Technology)



## In Rain (ICPL)

- Rainwater Percolation & Ground Recharge System.
- Storm Water Drain & Filtration system.
- Bios Wale Drain\Fire Fighting.
- Highway Porous Drain.
- Industrial water solution & Govt. Compliance.

## Installation Process of Rain Water Harvesting



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RWH Modules

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Back Filling

Completed Site

Geotech Eco System  
a unit of

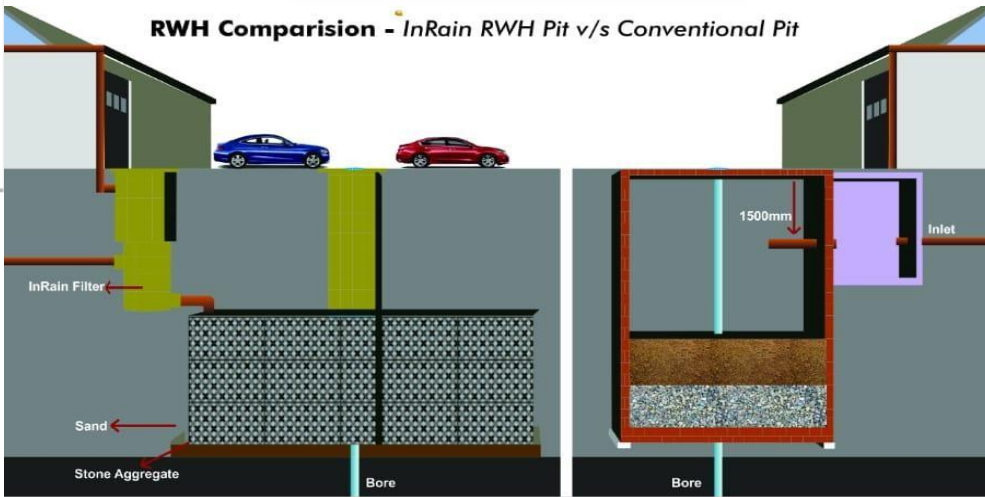
**InRain Construction Pvt.LTD.(ICPL)**

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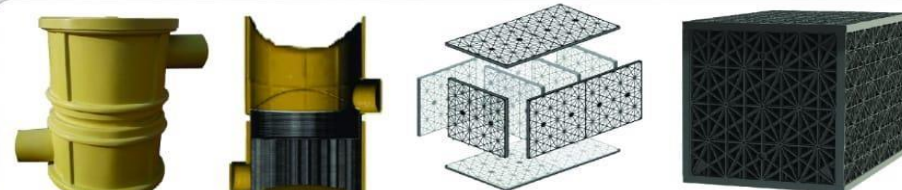
### Facts & Figures

- Global Rainwater Harvesting market will witness a CAGR of 4.8% during the period of 2016-2020.
- India ranks 133rd out of 180 nations for it's water availability.
- India ranked 120th out of 122 nations for it's water quality.
- India 4% of the world's water resources.
- 80% of India's surface of water is polluted.
- 16% of the world's population
- 15% of the world's livestock
- 2% of the world's land
- CAGR of 19.5% is the capital expenditure of water reuse.

### Water Problems

- Increasing water consumption
- Wastage & industrial growth in urban areas
- Increasing irrigation & agricultural demands.
- Water cycle imbalanced political and regulatory disputes.
- lack of technology & use of modern engineering solution.
- India's per capita water storage capacity currently is much below that of China or United States
- 75% of water pollution is from domestic sewage, which is discharged untreated into local water bodies.

## Filtration & Honeycomb Polymer Structure



### Our Group Companies Expertise:-

- Well-Sinking Bridge Construction
- Pile Foundation Bridge Construction
- Irrigation & Flood Control
- Road Construction
- Solar Pump Installation
- Rainwater Harvesting

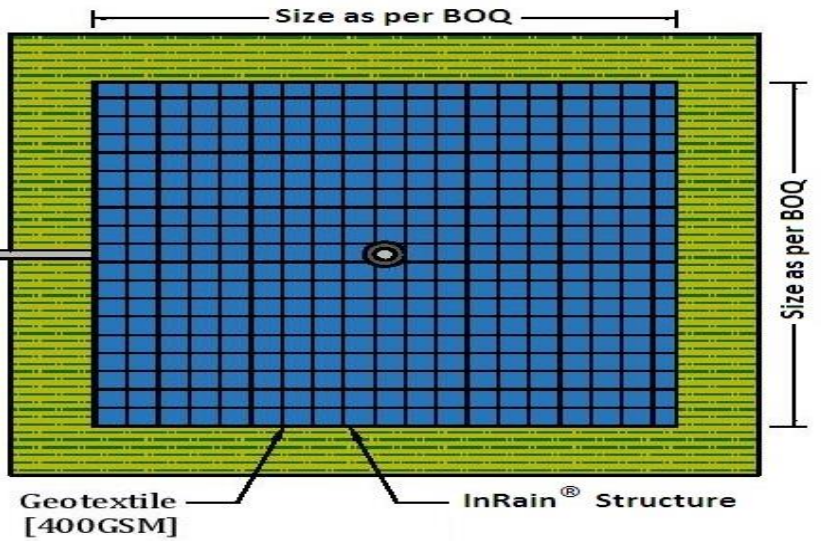
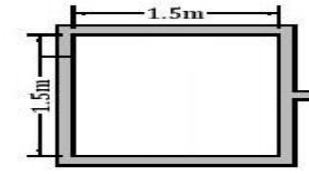


**Geotech EcoSystem**

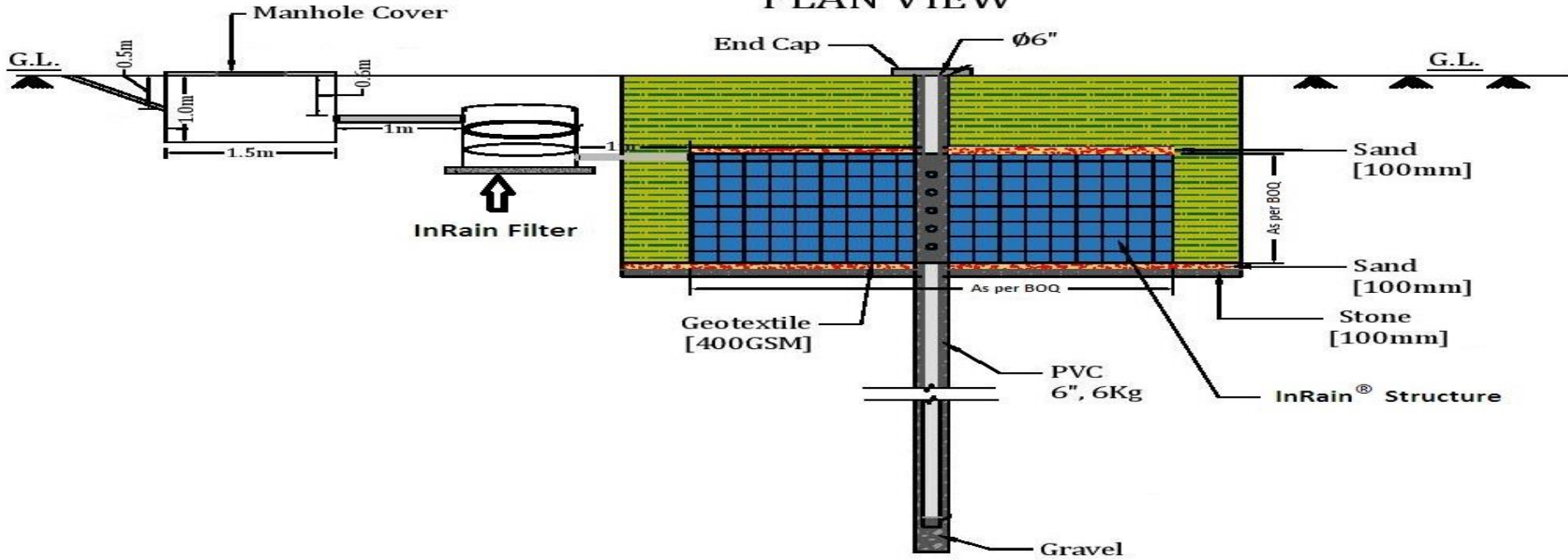
Building Value with Vision  
A Unit of ICPL



Size as per BOQ



### PLAN VIEW



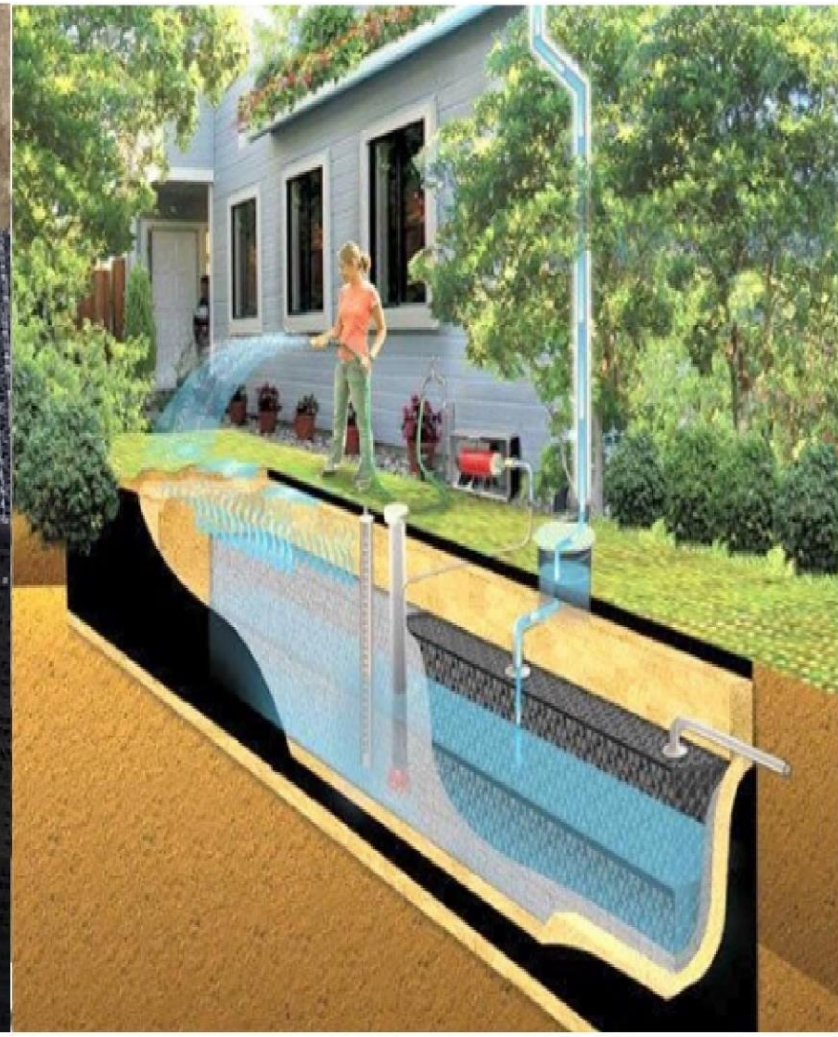
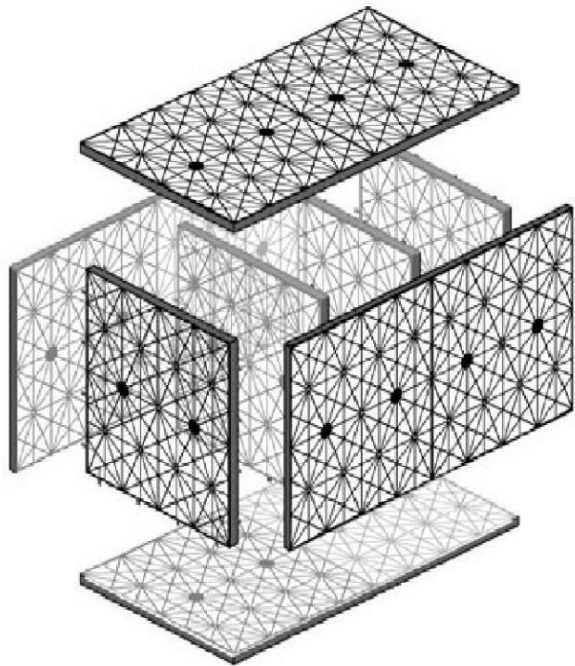
### SECTION VIEW

# InRain RWH Vs. Conventional/old RWH





# Effective Volume



under the parking lot, at shopping centre (Storage capacity:6,600m<sup>3</sup>)

# Why Conventional Rainwater Harvesting Fail??



- ✓ **Alteration is very challenging Not possible to relocate**
  - ✓ **Because of no movement water quality reduces**
    - ✓ **Accumulation of poisonous gases**
    - ✓ **Accident prone due to hollow structure**
- ✓ **Desilting chamber does not perform the function properly**
  - ✓ **Cleaning the whole structure is tedious and expensive**
- ✓ **Requires maintenance every year after three year of commissioning**
- ✓ **Unskilled manpower is used and that reduces the quality of work**

## Comparison between Conventional RWH & InRain RWH

S. No.	Item Description	InRain- RWH	Old Conventional Civil
1	Pit Structure Size	20 CuM (20,000 Litres)	47 CuM (47,000 Litres)
2	Actual Capacity Availability (due to wastage of space occupied by filter media and free area above invert level)	95.6%	40-45%
3	Actual Capacity Availability in Litres	19,120 litres	20,000 litres
<b>Cost Comparisons</b>		<b>InRain- RWH</b>	<b>Old Conventional</b>
4	Cost (approx.) of 20 CuM available volume Pit	5,86,000/- No Desilting Tank Req'd.	5,55,145 /- including Desilting Tank
5	5 Years Maintenance Cost	Nil	3,04,356/-
6	Total Cost (approx.) of 20 CuM available volume Pit including 5 Years Maintenance	5,86,000/-	8,59,501/-



## GRIHA Council

This is to certify that the product of

**“INRAIN CONSTRUCTION PVT. LTD.”**

**INRAIN FILTRATION SYSTEM**

has been included in the GRIHA Product Catalogue under the following categories:

**GRIHA V.3 criterion: 21**

**GRIHA V.2015 criterion: 18**

**&**

**SVAGRIHA criterion: 9**

The product can be used in GRIHA & SVAGRIHA registered projects to meet the GRIHA & SVAGRIHA norms, respectively. This is valid only for the product which has been mentioned above.

The certificate for the above mentioned product is valid from  
**30<sup>th</sup> September 2019 – 29<sup>th</sup> September 2021**

**Sanjay Seth**  
Chief Executive Officer

*Note: This evaluation has been done based on the documentation - in the form of 3rd party test results and/or declarations - submitted by the manufacturer to GRIHA Council.*

GRIHA Council is a joint initiative of Ministry of New and Renewable Energy, Government of India and The Energy and Resources Institute (TERI) to implement GRIHA (Green Rating for Integrated Habitat Assessment), India's National Rating System for Sustainable Habitats.  
[www.grihaindia.org](http://www.grihaindia.org)



## Certificate of Registration

This is to certify that

**INRAIN CONSTRUCTION PRIVATE LIMITED**

KH NO 148, PLOT NO- 219, GF, RAJPUR KHURD EXT, NEW DELHI, 110068

has been independently assessed by QRO  
and is compliant with the requirement of:

**ISO 14001:2015**

**Environmental Management System**

For the following scope of activities:

*Offering services of rainwater harvesting & environmental solutions*

Date of Certification: 19th December 2018

2<sup>nd</sup> Surveillance Audit Due: 18th December 2020

1<sup>st</sup> Surveillance Audit Due: 18th December 2019

Certificate Expiry: 18th December 2021

**Certificate Number: 2018121910**



Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. (In case if surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

**The Validity of this certificate can be verified at [www.qrocet.com](http://www.qrocet.com)**

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.  
QRO Certification LLP is accredited by UK Accrediting Forum Limited, UK ([www.ukaf.org.uk](http://www.ukaf.org.uk))  
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142, 11nd Floor, Avtar Enclave, Near West Paschim Vihar Metro Station, Delhi-110063, (INDIA)  
Tel.: 9810557489, 9999620858 E-mail : [info@qrocet.com](mailto:info@qrocet.com) Website : [www.qrocet.com](http://www.qrocet.com)

# Meeting Requirement Of Govt. Compliance



Delhi Jal Board



# Water

“It is Possible that the wars of the twenty-first century will be fought for water. SAVE NOW TO PREVENT WAR. **Please save** water

**THANKS**

Nishant Gaurav

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