

Pure Rain[®]

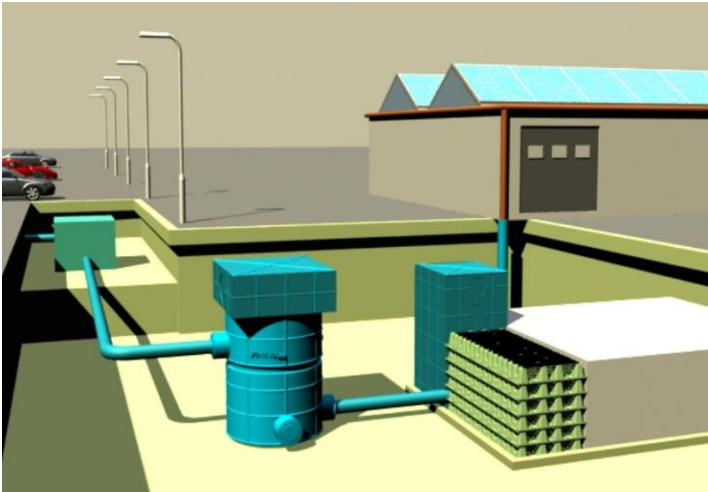
Modular Rain Water Harvesting System



By:
Ashwath Infratech (P) Ltd
New Delhi

Ashwath Group

Services & Solutions



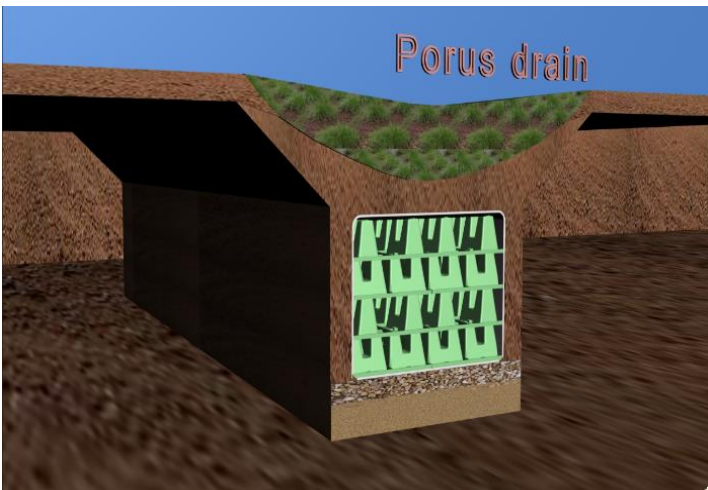
Rainwater Harvesting



Sewer Pipe Rehabilitation



Vertical Wall Garden



Storm Water Management



River Water Cleaning

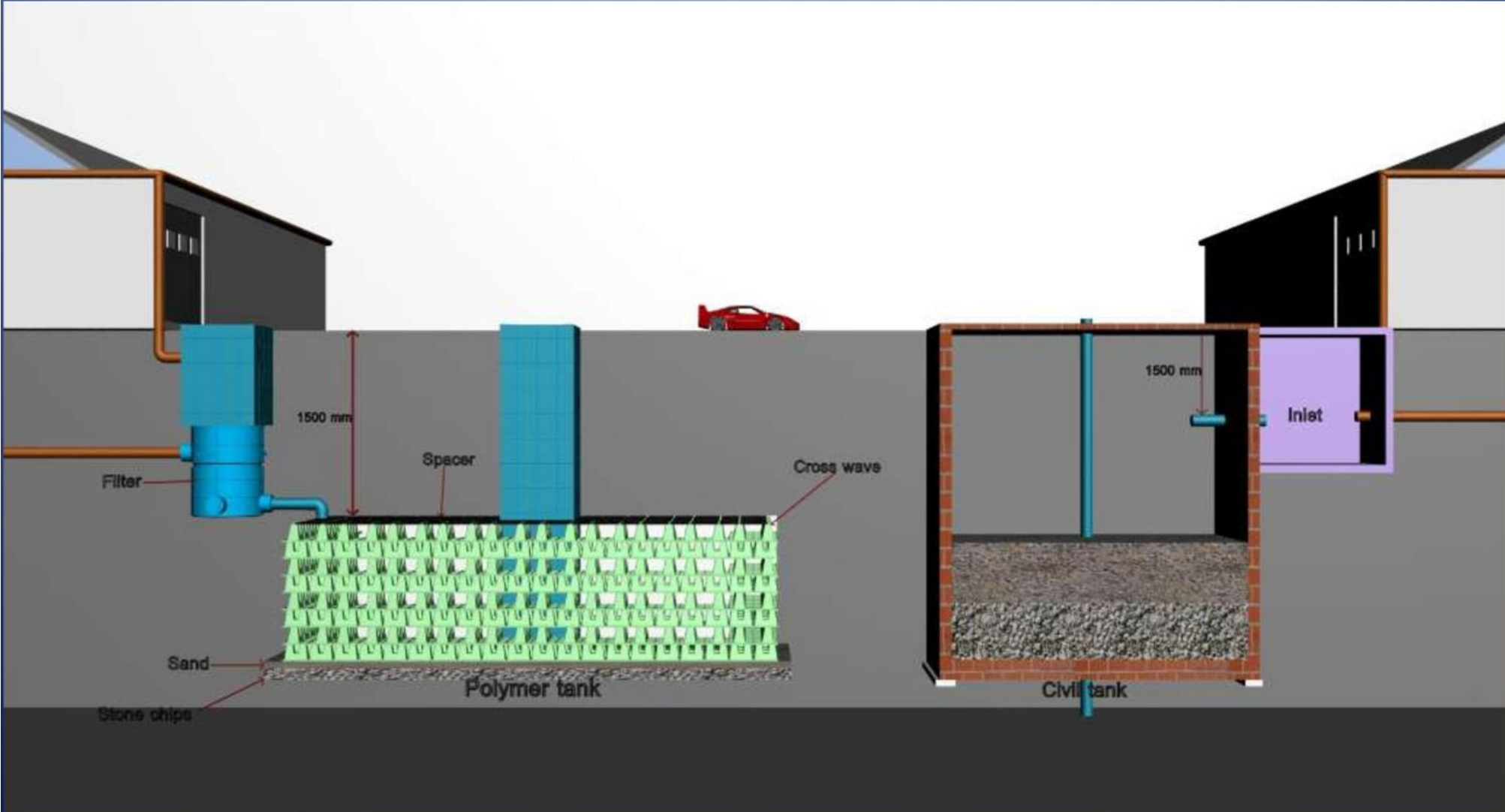


Aerial Planter

Ancient Successful RWH Techniques



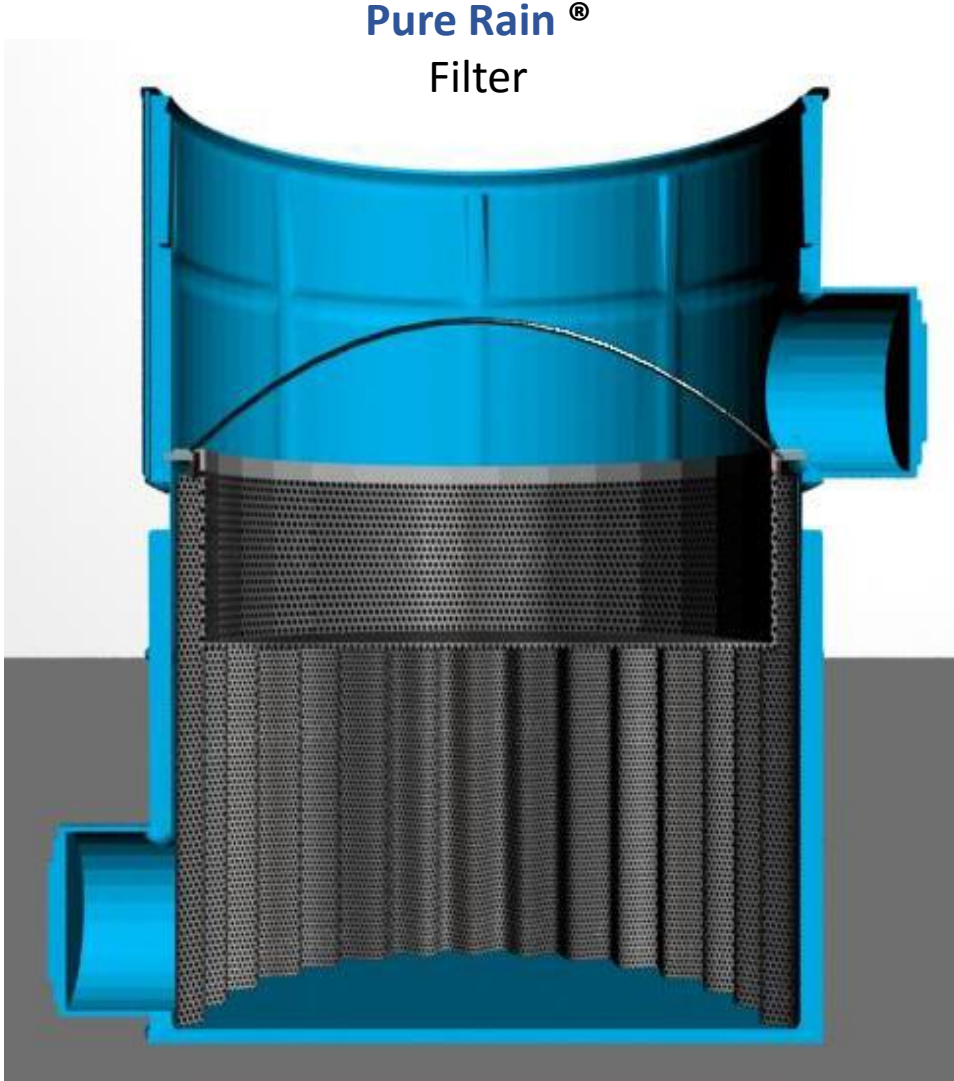
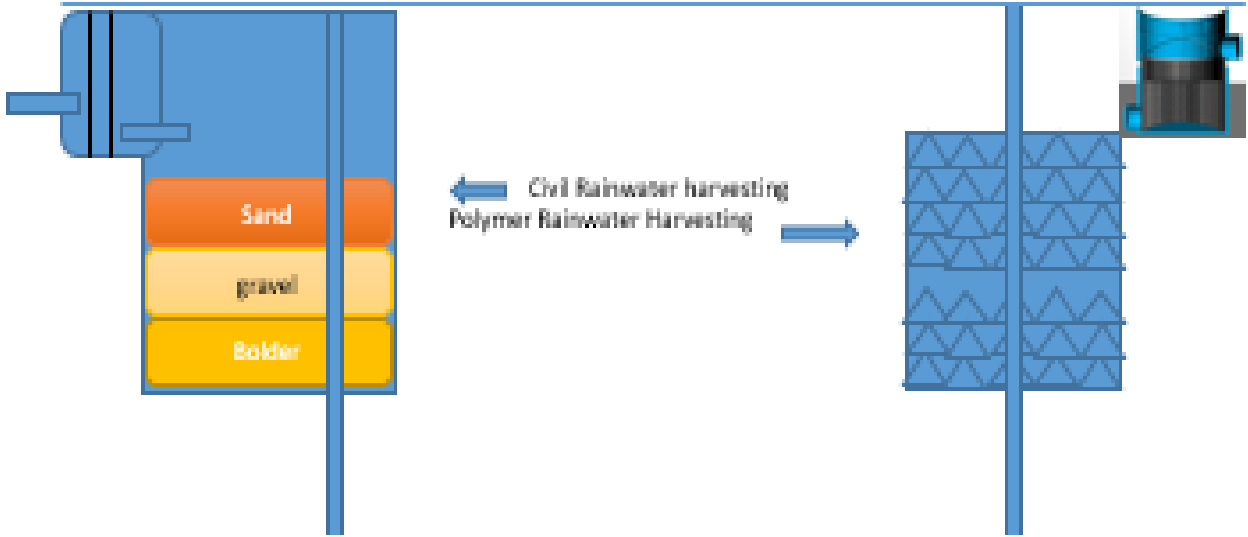
RWH Comparison – Modular v/s Conventional (Civil)



Modular Rainwater Recharge with Injection well



High quality filtration system – *Easy to maintain*



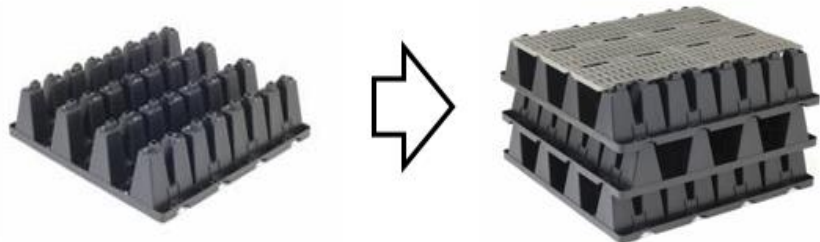
Crosswave - accident free honeycomb structure





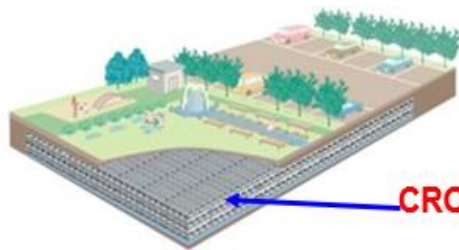
Technological changes

Install under the ground and water stores inside CROSSWAVE
⇒ Utilization of the top of the ground



size: 1m × 1m × 0.2m

Cross and pile up one by one
Creating a space for rainwater

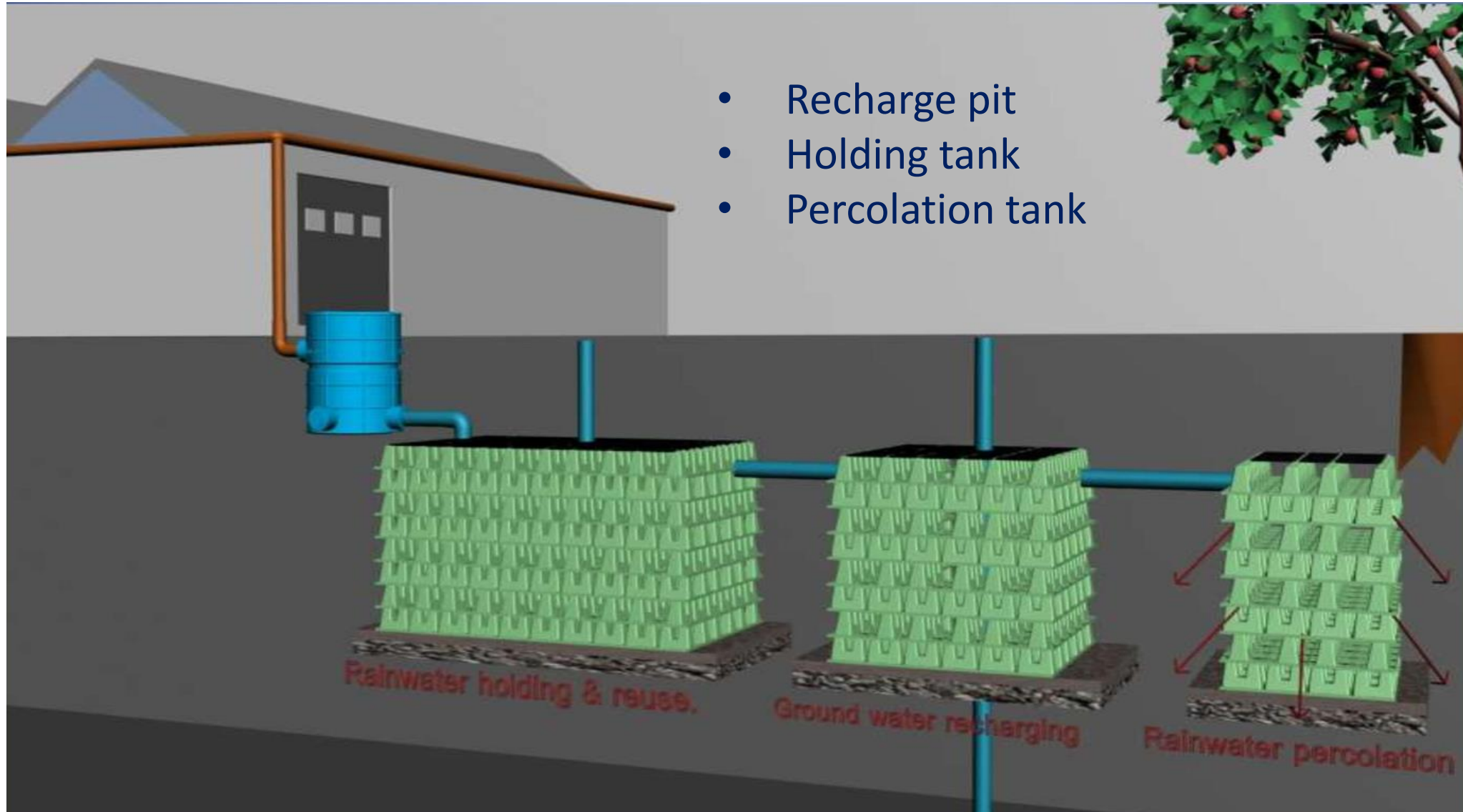


CROSSWAVE

- 1 Before**: A photograph of a grassy area with trees before any work begins.
- 2 Excavation & Borewell**: A yellow excavator is shown digging a trench and installing a vertical pipe (borewell).
- 3 Base Preparation**: The trench is filled with a layer of grey gravel, and the borewell is positioned in the center.
- 4 Geotextile/Protection Sheet**: A white geotextile sheet is laid over the gravel base, with the borewell passing through it.
- 5 Cross wave and spacers**: The black plastic modules are being laid out in a grid pattern over the geotextile, with vertical spacers being inserted between them.
- 6 Modules Installed**: The modules are fully laid out, creating a grid of rectangular cells over the borewell.
- 7 Modules Wrapped in Geotextile**: A second layer of white geotextile is placed over the top of the installed modules.
- 8 Completed Site**: The final result is a green lawn with a small circular access point in the center, where the borewell is located.

Modular system advantage

- Recharge pit
- Holding tank
- Percolation tank

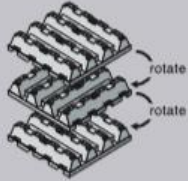


High void ratio

Features of CROSS-WAVE

1 High Void Ratio

- High space can be maintained by intersecting it at 90 degrees and piling it up.
- Reduce the amount of digging and can make a big volume storage in compact space.
- As digging is small so post processing is easy.



2 Time saving

- Installation can be done only by hand.
- Compared to using concrete no need curing time.
- No need heavy equipment unlikely to use precasting concrete products.



3 Heavy load capacity design

- Can load 25 ton truck for vertical direction.

4 Easy Installation

- Due to slide layer design no fixing material is required.
- Installation speed is outstanding.

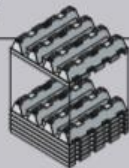


5 No pollution

- Polypropylene is used.
- Excellent chemical and water resistant, do not pollute the water.

6 Compact Storage

- It can be easily stored if piled in the same direction and reduces storage space at the site.



Rainwater regulating reservoir construction in Ehime prefecture, under the parking lot, at shopping centre (Storage capacity:6,600m³)

Flood control & Attenuation

Flood Control

Controlling overflow in a redevelopment area

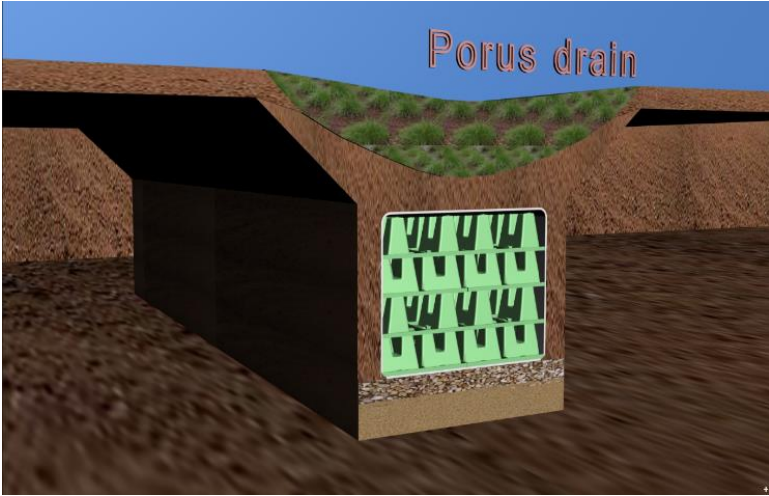
If you make some underground reservoir at redevelopment area you could reduce rainwater runoff in the area.



Can be used

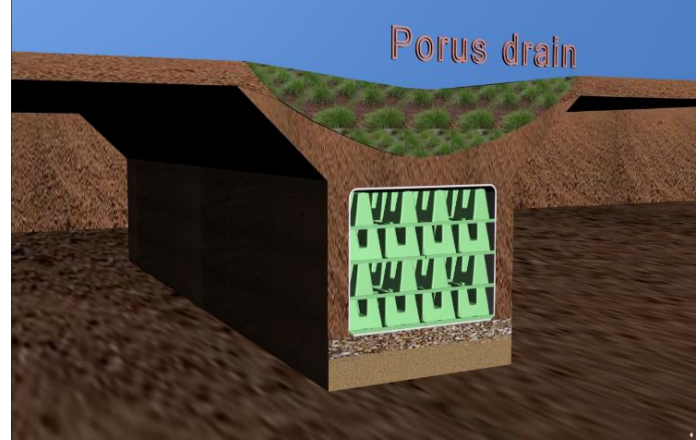
- 1) Under park at redevelopment area
- 2) Under parking lots at shopping center

Reference



- 1. Installed across highways in middle east
- 2. Very large business.
- 3. Hands on expertise in this field

Drain & Bio Swale



Rain Water Holding Tank



Protection sheet



Lining sheet



CW stacking

Cover in



Rainwater Harvesting

Shortcoming with the conventional system

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

Alteration is very challenging

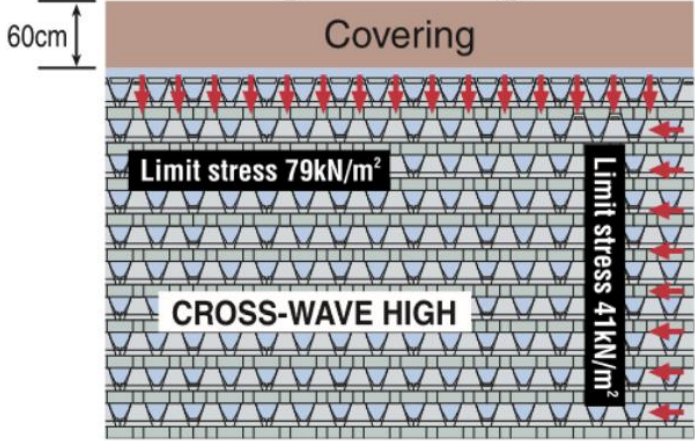
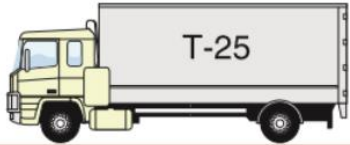
Not possible to relocate

Because of no movement water quality reduces

Unskilled manpower is used and that reduces the quality of work

Modular RWH Advantage

- Polymer as strong as metal
- Load bearing and top surface utilization
- Time saving in installation
- Accident free
- Less maintenance cost than civil pit
- Maintenance time and resource utilization
- Alteration and re use advantage
- Cost advantage



Awarded by CGWB

K. B. Biswas
Chairman



केन्द्रीय भूमि जल बोर्ड
जल संसाधन, नदी विकास
एवं गंगा संरक्षण मंत्रालय
भारत सरकार
नई दिल्ली
Central Ground Water Board
Ministry of Water Resources,
River Development and Ganga Rejuvenation
Government of India
New Delhi

No. CGWBChmn//PA(Misc.)/2015-868

Dated: 09.06.2015

To

M/S Ashwath Infratech Private Limited,
29, 1st Floor, Community Centre
East of Kailash
New Delhi-110065

**Subject: Certification of Ashwath Pure Rain Filtration System
and Rain Water Harvesting Technology.**

Reference: Your Presentation.

Dear Sir,

This is with reference to the above and furtherance to your presentation, it is certified that Ashwath Pure Rain Filtration System and Rain Water Harvesting Technology is found satisfactory on Indian hydrogeological and ground condition.

Yours Sincerely,


(K.B. Biswas)





GRIHA Council

This is to certify that the product

“Ashwath Infratech – pure rain filtration system (for rainwater harvesting)”

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

GRIHA V2015 Criterion: 18
GRIHA V 2/3 Criterion: 21
SVAGRIHA Criterion: 9

This 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
10th May 2016 - 9th May 2018

Amit Kumar

Amit Kumar
Vice President cum Secretary

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

Approved by GRIHA & HUDA

OFFICE OF THE CHIEF ENGINEER, HUDA C-3, SECTOR-6, PANCHKULA

To

All the Superintending Engineers,
HUDA in the State.

Memo No: C.E. /EE (HQ)/CHD (P)/14/ 2076 Dated: 12/2/14

Sub: Rain water harvesting system with Modular Technology.

Find enclosed herewith a photocopy of the letter dated-14.01.2014
alongwith its enclosures as received from the Ashwath Infratech Pvt. Ltd
alongwith a copy of reference received from Director, Deptt of Agriculture, Kissan
Bhawan, Panchkula for information and necessary action please.



IPH Himachal & GWD Rajasthan



Himachal Pradesh
Irrigation & Public Health Department

No-IPH-SE(P&I)-D-I-Tech.-Committee/2015 2297-99 Date - 6.8.2015

To

✓ Aswath Infratech Pvt. Ltd.
29, Community Centre, 1st Flore, East of Kailash,
New Delhi - 110065.

Subject - Empanelment of product for rain harvesting structures /recharge of water in dry Hand Pumps and Adoption of latest GCWB approved Polymer Technology for water storage & recharge.

Reference - Your firm letter No.- AIPL/2014-15/709, dated- 23.11.2014.

Sir,

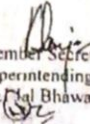
In this regard it is to inform that the proposal received vide your letter referred to above was placed before the Technical Committee at agenda item no. 10&10(a), in its meeting on 31.07.2015.

The decision in respect of your item is as under :-

Item No.10&10(a) - Empanelment of product for rain harvesting structures /recharge of water in dry Hand Pumps and Adoption of latest GCWB approved Polymer Technology for water storage & recharge.

The representative of M/S Ashwath Infratech Pvt. Ltd, New Delhi made a presentation of rain water harvesting recharge structure and polymer technology for water storage and explained that positive result has been achieved at number of sites including those of Delhi Metro Rail Corporation. It was decided by committee that all CEs shall call online tender for one recharging site per zone to install such system on trial basis. The performance would be observed for 6 months with the help of available exometer data/other mode and documented.

This is for your information please


Member Secretary cum
Superintending Engineer,
P&I Jal Bhawan, Shimla-9.

Copy to :-

1. Copy to E-in-C for information & necessary action please.
2. SE(W) for information & necessary action please w.r.t UO no. 4652 dt. 02.01.2015 please.

Member Secretary cum
Superintending Engineer,
P&I Jal Bhawan, Shimla-9.

Government of Rajasthan,

Office of Senior Hydro geologist, Ground Water Department

72-B, Jhalana Doongri, Jaipur.

F()/S.r Hyd/GWD/Jaipur/

Date:- 26/6/15

Chief Engineer,
Ground Water Department,
Jodhpur.

Subject:- Construction of Rain Water harvesting structure using Polymer Crosswave Technology and GRHHA approved Pure Rain Filter.


Reference:- CE, GWD, Jodhpur letter NO.F.TA-II/JU/GWD/CE/2015 dated 09/06/2015.

Sir,

With reference to above mentioned subject sanction was accorded to M/S Ashwath Infratech(P)Ltd, 29 Community centre, East of kailash, New Delhi for the Construction of Rain Water harvesting structure using Polymer Crosswave Technology and GRHHA approved Pure Rain Filter in the premises of Ground Water Department, Jaipur near abandoned P /z in NorthEast Part near Assistant Engineer office building.

In compliance to the above the firm has constructed the Rain Water Harvesting structure using Polymer Crosswave Technology and GRHHA approved Pure Rain Filter as per the specifications suggested by them.

The undersigned has inspected the structure on 26th June 2015, the work undertaken by the firm seems to be as per the suggested specifications.



(Gopal Prasad Sharma)
Senior Hydrogeologist

F()/S.r Hyd/GWD/Jaipur/ 729

Date:- 26/6/2015

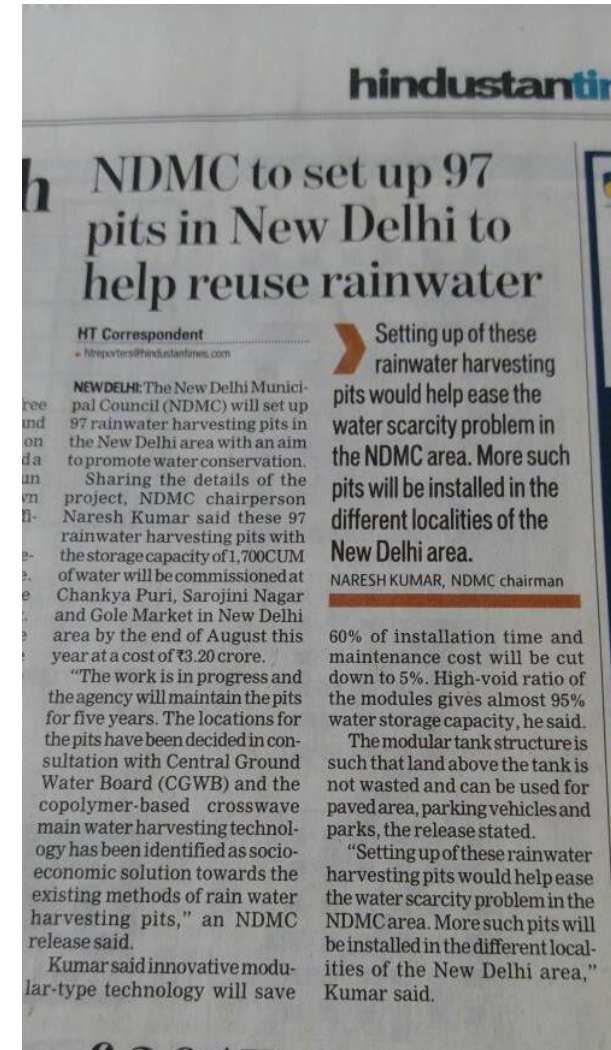
Copy for Information:-

1. Superintending Hydrogeologist, GWD, Jaipur.
- ✓ 2. M/S Ashwath Infratech(P)Ltd, 29 Community centre, East of kailash, New Delhi


Gopal Prasad Sharma
Senior Hydrogeologist

AIPL – Milestone Projects

- Smart city project - NDMC



AIPL – Milestone Projects

M/s Ashwath Infratech Pvt. Ltd.
29, Community Center, 1st Floor East of Kailash
New Delhi-110065

सेवा में
M/s Ashwath Infratech Pvt. Ltd.,
29, 1st floor, Community Centre,
East of Kailash,-110065

Name of work: ~~Repair and maintenance of Infrastructure Assets in R-IV Division during 2015-16.~~

SH: - Construction of Rain Water Harvesting Pits in PM House Visitor's Parking
Opposite Kothi No. 11.

विषय : Provision of modular rain water harvesting system in Parliament House, New Delhi

- Parliament House (LETTER OF COMMENCEMENT)
- PM House करार सं० 17/का०ई०/स०भ०सि०का०म०/2016-17
- Smart city project
- SSA Gujarat – Covered by UN
- Kidwai Nagar Township Redevelopment



Brand trust won till date...



Water

Grand father saw it in river,
Father saw it in well
We saw in tap
Our Children see it in bottle
Where will our grand children see it!

Please save water

Contact us:

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New Delhi – 110 070

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Tel: +91 8510004122