Rain Water Harvesting System

Jain Filtrain
Rain Water Harvesting Filter

Integrated with :

Jain Pipes™ Your Lifeline to Prosperity®

Jain Plumbing™ Install Peace of Mind!

Jain Casing Pipe Your Lifeline to Prosperity®

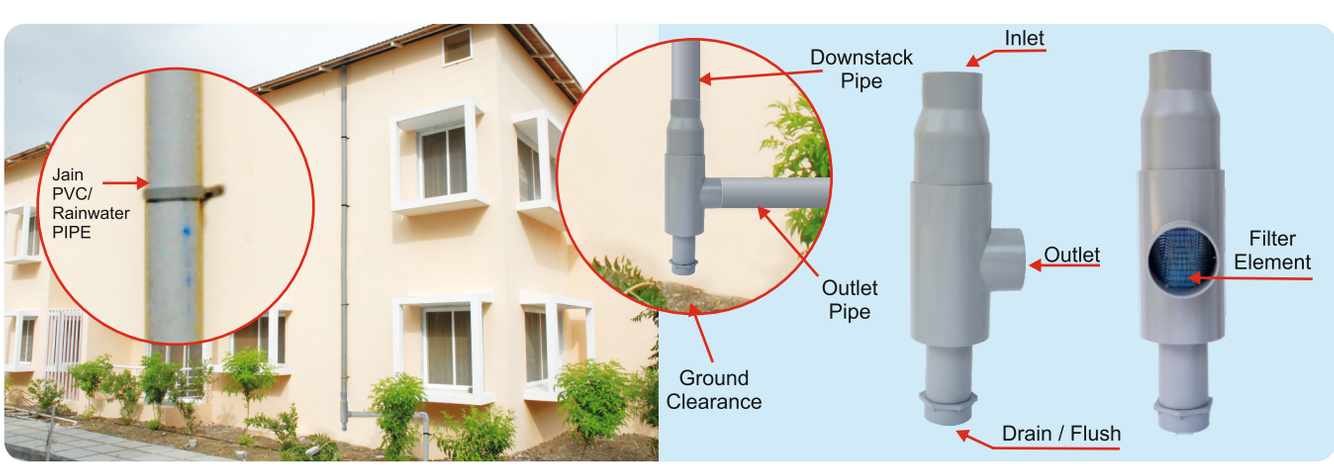
Jain Column Pipe™ Better B-Sure, Never be Sorry!™

Jain Rain water Harvesting system integration :

Rain Water Harvesting – In the current scenario rain water collection for reuse and replenishment of depleting underground water table is of utmost importance. We have to face the reality that water as a resource is getting scarce and it is the primary responsibility of each one of us to use water smartly and judiciously. From the multiple solutions available to take care of this liability the simple method is to harvest rain water from residential and commercial building terrace.

By this method it is possible to channelize rain water to recharge any deep pit, open well, borewell etc using a Jain PVC / Rainwater pipeline and Jain Filtrain. This helps in increasing the underground water table level. Water collected by this method is available for immediate use for applications like landscaping (irrigating gardens / lawns), residential non-potable consumption (washing / cleaning / cooling / sports). Post water treatment it is also available for thirst fulfilment of living beings in the form of potable (drinking) water. Long term collection is primarily to refill the existing water storage resources.

We thus bring to you a new integrated system for Rain water Harvesting. This is a combination of Jain PVC / Rainwater(SWR) pipeline, Jain Well Casing and Screen pipe along with Jain Filtrain that helps in filtering Roof top Rainwater and recharge the ground aquifer and Jain Column piping system to reuse ground water from borewells.



Size and Range

Jain Filtrain Rain Water Harvesting Filter is available in 3 sizes. According to the pipes used for channelling rain water accumulated at the terrace, **Jain Filtrain** is available in sizes 75 mm, 110 mm and 160 mm diameter.

This is rightfully integrated with **Jain PVC** or **Jain Plumbing Rainwater (SWR) pipe** of sizes 75mm, 110mm and 160mm diameter.

Features and Benefits

- Simple construction / assembly
- Trouble free installation and maintenance
- Free of electric supply
- Easy to use and operate / manage
- Compact and handy
- Operates on minimal gravitational force / pump head

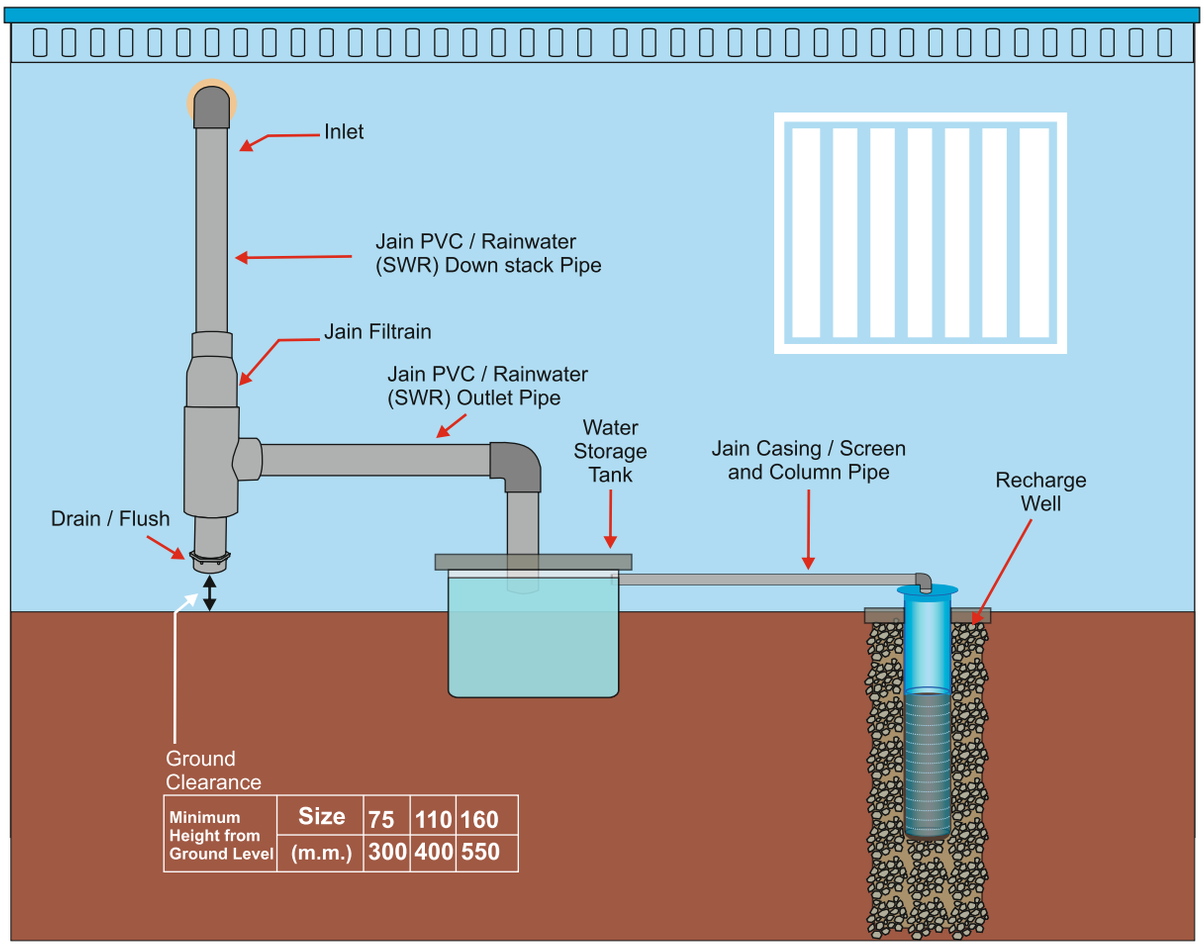
Installation of Jain Rain water Harvesting System:

Rain water from the Terrace passes through **Jain PVC/Rainwater pipes** into the **Jain Filtrain** inlet. The **Filtrain** then passes filtered rain water through the outlet into the pipeline which connects to the storage tank/ recharge well/ top of the open well/ storage utility. In case the recharge medium for groundwater being a bore well then, that well can be constructed for recharge, pumping and reuse by installing **Jain Well Casing / Screen** and **Jain Column Pipes**. During initial / first rainfall the tree leaves/ twigs/ trash accumulated at the terrace is likely to enter through the pipeline and settle inside the Filtrain. The bottom cap of **Jain Filtrain** can be unscrewed to drain out the undesired residue/ particles/ dirty water; the screen element can be removed and cleaned by spraying clean water and thereafter reassembled for restarting the **Jain Rain water Harvesting system**.

Filtrain Auto Drain Valve:

Sometimes it happens that the filter is choked up due to certain reasons and it goes unnoticed. During rain, being the choke filter, the water discharge is reduced or zero. This results in accumulation of rain water at the terrace and at some point of time the water starts overflowing from the terrace resulting in water flooding in the house. To avoid this, use a jain Auto drain valve at bottom of filtrain in place of bottom cap. This auto drain valve relieves the water the moment pressure in the system reaches 0.1 to 0.15 Kg/cm2 and prevents the terrace from flooding. This is simple in operation and works on the principle of hydraulics.

Typical Rain Water Harvesting Installation



Rain Water Harvesting Potential for Different Roof Sizes

Roof Area	Total Rain Water Available*	Roof Area	Total Rain Water Available*
Sq. Feet	Liters	Sq. Feet	Liters
500	26047	3000	156282
1000	52094	3500	182329
1500	78141	4000	208376
2000	104188	4500	234423
2500	130235	5000	260470

* Avg. Annual Rain Fall = 700mm * Run off Coefficient = 0.8

Product Details Filtrain			
Sr.No.	Size MM	Total Filtration M3/Hr	Total Filtration Capacity Liters/Hr
1	75	16	16000
2	110	40	40000
3	160	80	80000

* At 1.0 Kg/cm2 Pressure

Product Details Pipe			
Sr.No.	Details	Size(mm)	Standards
1	uPVC Pipe: 2.5 kg/cm², 4 kg/cm²	75,110,160	IS:4985
2	PVC - SWR Pipe Type A	75,110,160	IS:13592
3	Casing Pipe	100 to 600	IS:12818
4	Column Pipe	25 to 200	Company std.

"CATCH THE RAIN" where ever it falls & whenever it falls with Jain Rain Water Harvesting System

Water which we are using now from a depth of 500 feet, was stored in the ground more than 300 years ago.

India has 16% of the world's population but only 4% of the world's fresh water and 61% decline in ground water level in the last 10 years

Jain Irrigation Systems Ltd.
Small Ideas. Big Revolutions.®

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