

## **AN INTRODUCTION TO MODERN RAINWATER HARVESTING SYSTEMS**

Dear Sir/Madam,

Rainwater, the freshest available water in the earth surface.....

**ACT - WISY** is an **INDO - German** Joint venture initiative, of which we are very much proud to introduce Innovative ideas of Rain water harvesting systems as a total concept of water management for domestic and Industrial needs. We do provide Rainwater Harvesting Filtration Systems in the modern way with no maintenance cost and no consumption of power.

We, **ACT** (Azad Contractors & Traders Pvt Ltd) India based company having various business and specialized contracting of Rainwater Harvesting techniques, solutions, filtrations, storage and systems from Germany. The company is formed in 2013 and is backed by team of seasoned professional from various fields. We are exclusively focused on Environmental, Industrial and IT services. We provide the latest technology and equipment allowing us to give our customers the best service possible on-site and through other media.

Our Mother company is **WISY AG** (Winkler Systeme AG), a German entity is specialized in Rainwater Harvesting technologies, solution, products and as a whole the total concept. **Mr. Nobert Winkler** found the company back in 1989. WISY has more than 25 years of successful operation spread across 40 countries. The products delivered by WISY are time proven and seasoned for more than two decades. WISY is having worldwide partners and India one of the latest.

WISY AG grew very quickly to become the leading manufacturer of high quality rainwater harvesting systems. WISY is a founder member of the German Association for Rainwater Harvesting and also participated in the DIN committees which drew up the currently applicable standards. The durability and reliability of its products is a distinctive feature of the WISY brand. WISY's products have consequently found use in many thousands of projects around the world, especially where professional rainwater harvesting solutions are required. The name WISY is a synonymous with quality and durability.

As of today, one of the world wide crises is the water scarcity. Human and the nature cannot survive without water. It is imperative to take adequate measures to meet all the water needs of the living beings in the world.

Rainwater harvesting (RWH) and recharging of groundwater is emerging as a sustainable strategy to cope with the increasing pressure on insufficient freshwater resources. There exists lot of RWHS in the world, unfortunately many of the RWH systems implemented is utter failure. This is because lack of better systems and technologies.

As we aware about that a safe and convenient water supply is of paramount importance to the human health and the well- being of any society. Rainwater, which is the freshest form of water, would be an immediate source to augment the existing water supply by "**Harvest Water While it Rains**".

For this initiative Azad Contractors and Traders Private limited (ACT Pvt) is stepping into a challenge by providing most modern and eco-friendly rainwater harvesting system. WISY rainwater plants are useful for all applications with long term benefitting cost and are very much eco-friendly. We seek to distinguish ourselves by providing the most flexibility and reliability in customer service. We value our customer satisfaction.

## **ACT-WISY MODERN CONCEPT OF RAINWATER HARVESTING SYSTEMS**

### **4 step Water Conservation System Methodology:-**

WISY's filtration system use vertical cylindrical type of filter with adhesion principle and which works on centrifugal force. It has an automatic system of rinsing/cleaning by using 5 to 15 % of rainwater harvested. The filtered water will be collected to one side of the chamber and send to storage. The filtered water in the storage tank undergoes different stages of oxygenation. The rinsing/dirt water shall be sending for drain out or sewage.

**Step-1:-** Fine filtration and oxygenation of harvested rainwater either by using Downpipe Filter Collector or Filter Collector or by Vortex Fine Filter.

**Step-2:-** Stable Sedimentation and Oxygenation of filtered water in the storage by using Smoothing inlet.

**Step-3:-** Extraction of water within the cleanest level of the tank with Floating Suction Filter.

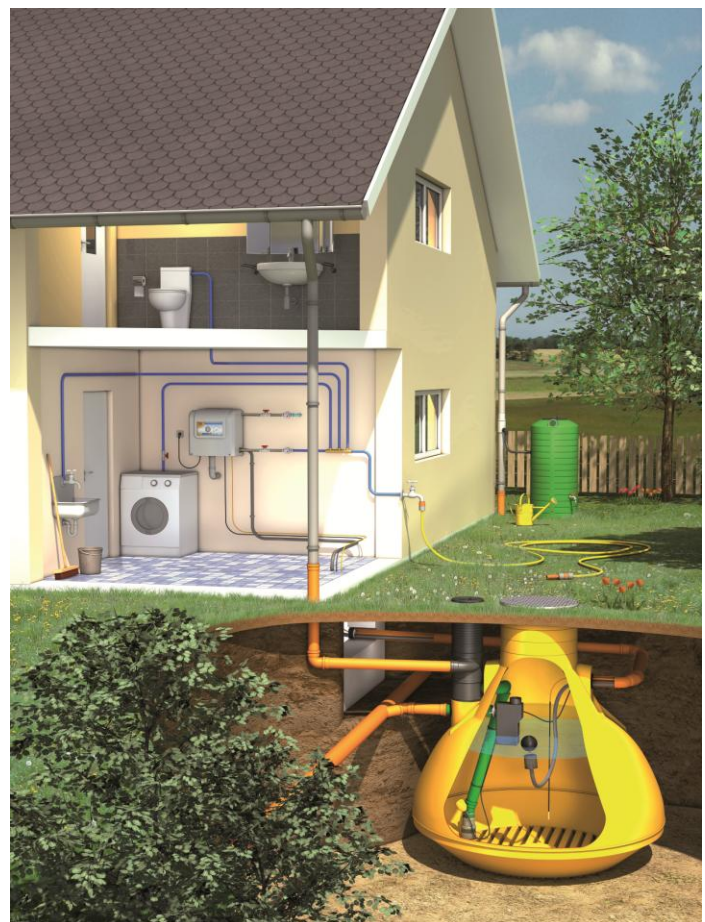
**Step-4:-** Multifunctional overflow control by Multisiphon.

### **ADVANTAGES OF ACT-WISY FILTER SYSTEMS**

- Drainage safety.
- Complete dirt separation.
- Oxygenation of the rainwater through vortices of the rainwater.
- Extremely low maintenance.
- High water collection efficiency.
- Eco friendly.
- High durability and reliability.

### **ADVANTAGES OF ACT-WISY RAINWATER HARVESTING SYSTEMS**

- No/low maintenance.
- Self cleaning.
- Maintaining the water quality for longer duration up to 8 months.
- Water extraction from storage tank using Floating Filter technology to ensure higher quality water.
- Multisiphon for skimming and for water recharging purposes.
- Cost effective and stable.
- Perform water conservation along with water in-filtration.



**ACT-WISY MOST MODERN TECHNOLOGICAL PRODUCTS OF RAINWATER HARVESTING SYSTEMS**

To attaining the accuracy and the efficiency of the system, need the following factors for the product suggestion

1. The catchment area / roof area for RWH
2. The available rain fall in that region.

**STEP WISE PRODUCT DESCRIPTION**

1. FINE FILTRATION BY ANY OF THE THREE DIFFERENT TYPES OF FILTERS



GARDEN COLLECTOR  
DOWNPIPE FILTER



FILTER COLLECTOR



VORTEX FINFILTER

2. OXYGENATION



SMOOTHING INLET

3. EXTRACTION



FLOATING FINE  
SUCTION FILTER

4. OVERFLOW CONTROL



MULTISIPHON



**FEW WORLD WIDE EXAMPLES OF RAINWATER HARVESTING PROJECTS USING ACT-WISY SYSTEMS**

1. *FIFA Stadium: Maracanà Stadium, Rio de Janeiro, Brasil*



2. *Hospital in Bad Hersfeld, German*



3. *Chandrasekhar Azad ground, Bangalore*



4. *Chamber of Commerce in Berlin*



5. *Sumida Shopping Mall in Japan*



6. *Housing Area in Salem, USA*



***"Rain water being the most fresh and precious water available in the earth, use it at its best".***

Thank you in advance for your anticipated response.

Yours faithfully

**Mr. Anzar Azad**  
 Managing Director  
 ACT-WISY