



'Rainy' Dual Intensity Rainwater Harvesting Filters-**New Invention**



Farmland Rain Water Harvesting Systems (FLRWHS), a partnership firm, was established in 2002 and is exclusively working on developing solutions towards rain water harvesting (RWH). The firm's activities include research and development, plan and design, technical consultancy, geomorphic mapping of soil strata, manufacturing, marketing, and installations of rainwater harvesting systems.

Backed with over SIXTEEN years of field experience in both roof top and surface water recharge, incorporating the state of the art green technology, FLRWHS is renowned for its green initiative in conserving natural resources and demonstrates the same by implementing their in-house developed technologies. **OUR prime focus is on water and energy conservation and other environment friendly applications, and in implementing a comprehensive rain water capture and storage at field level using a proven technology.**





Introduction

Failure of bore wells one after the other..

- **In the year 2001**, we wanted to develop our own small farm, around 6 acres at CHIKMAGALUR and tried to drill bore wells. But, unfortunately one after another failed. We **drilled around 28 bores** finally resulting in the wilting of all standing crops.
- Failure of bore wells & also natural calamity of drought gave us an impetus that water is the elixir of life and without water there is no future. During that time we heard lot about Dr, Viswanathan in the Field of Rainwater Harvesting , when we approached him through Rotary club of Chikmagalur, he wholeheartedly acknowledged our request and Visited Chikmagalur Given the Inputs and Importance of Rainwater, that inspired us to implement in our own Farm





Continuous Experiments

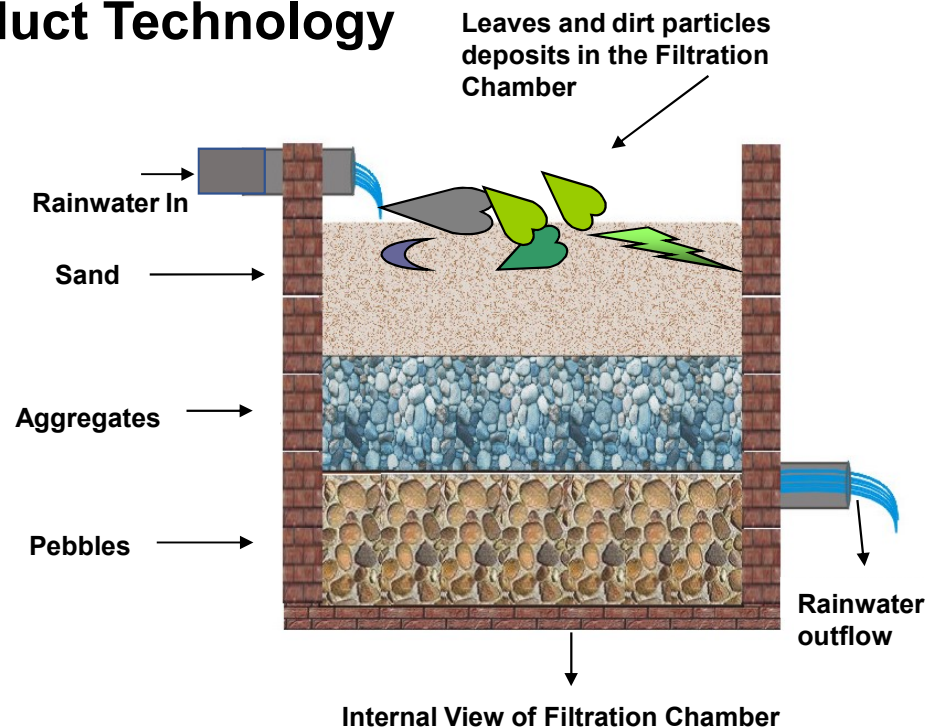
- In the year 2002, we first experimented by digging a pit around the bore well and then drilled perforated holes to the casing. This was done in order to leave the rainwater into the bore which flows through channels during monsoon. Thereafter, plenty of water started flowing into the bore well but there was clogging and contamination.
- Through this, we realized not to leave the water directly into the Aquifer but to recharge the groundwater source.
- Continued research and development in this field helped us to discover New Methodology by incorporating **`V' Wire Screens, Percolator pipes, with Indirect Recharging System** by drilling a separate bore near the existing one and leave rainwater just seep into the deeper layer of earth profile and finally reach aquifer. This was tested at our own farm, it was most successful and able to get continuous yield in our failed bore wells.
- The news was spread by word of mouth, through Rotary Clubs, Paper and Print Media. People started visiting the farm to see the success story.
- Later with few successful installation at various farming sites at KOLAR & Other Places, **State & Central Govt. came forward and approved our Technology and started implementing in both rural & urban areas.** Further, Residential Projects and Corporate Sectors came forward and started implementing our **`New Scientific FL-V Wire Injection Technology** in pan India. Now it is popularized as **`FL- V wire Technology.**





Uniqueness of Product Technology

Conventional-Chamber Filter



In **Conventional Filters**, the rainwater along with dirt particles, tree leaves and other particles have to pass through the Filter Candle or through the other filtration media like mesh, sponge, or sand. In this case the debris and waste materials will be clogged inside the filter and get decayed. Due to this the rainwater may contaminate and also the chances of overflow of water through the filter/ rooftop and cause havoc.

Conventional Filters- Mechanical type – Manually Cleaning

Uniqueness of Product Technology



The mechanical filters available in the market are designed with a **gate valve system at drain side**. When the dirt particles enter the filter, the dirt and debris, collects inside the filter housing assembly. So at every rain, the filter candle needs to be cleaned by opening the valve manually. The greatest drawback of these systems is the periodic maintenance from time to time. This system has serious limitations because of the unpredictability of clogging and uncertainty of rain. This results in the debris clogging inside the filter and chances of decay and water contamination. Also the chances of overflow of water through the filter/adjointing terrace area, resulting in unsafe flow of water to the surrounding environment or may results in clogging of the pipeline and water stagnation on terrace.


Rainy™



Innovative RWH Technology :

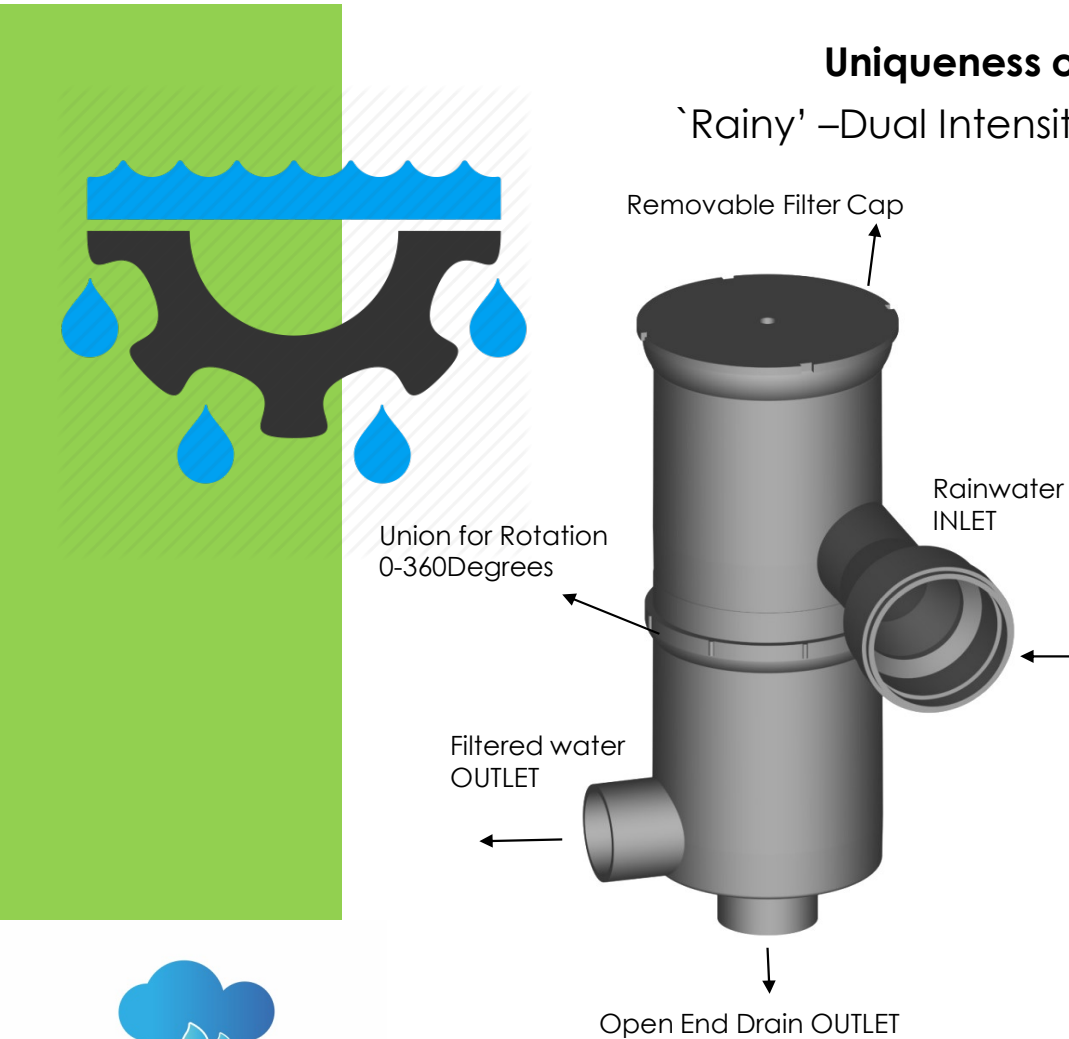
Invented and Developed by Farmland Rainwater Harvesting systems –India

Farmland Rainwater Harvesting Systems are in the field of Rainwater Harvesting (RWH) Technology since the year 2002. Right from this stage, Farmland was sensitive to the acute shortage of water facing different parts of the Country. Spanning one decade, the indigenous technology developed scientifically, achieved a significant success rate at the field level. Farmland achieved a breakthrough in technology with the development of the State of the art Dual intensity RWH Self cleaning filters based on the working principle of Cohesion and Centrifugal force to store & Re-utilize /Recharge Groundwater Source.

- Specially designed Dual Intensity RWH filters based on the working principle of Cohesion & Centrifugal force keeping in mind the capture of rainfall loads varying from 5mm to 75mm/hour without affecting the efficiency of filter.
- Filter function efficiency is directly proportional to the intensity of rainfall. As the intensity and volume of rainfall increases, greater the efficiency of the filter. However, at any given point of time, the minimum efficiency of the filter ranges from 90 to 98%.
- In both situations, involving low and high intensity of rainfall , the working principle of the filter based on cohesive and centrifugal force respectively, aids the filter element to divert the clean water into the cistern through the clean water outlet and simultaneously flushes out automatically sand, debris, and dirt particles through the Drain outlet

Uniqueness of Product Technology

'Rainy' –Dual Intensity Rainwater Harvesting Filters



➤ Revolutionary Breakthrough in Design & Technology in the Year 2011

FOUR New Models were introduced with Auto flush out & self Cleaning Mechanism with working principle of Cohesion & Centrifugal force

➤ These heavy duty Dual Intensity Rainwater Harvesting filters are so designed; keeping in mind the capture of rainfall loads varying from 5mm to 75mm/hour without affecting the efficiency of filter and the operating required less than 0.06 kg/cm² (2feet). So the filter can perform even in low Roof areas. **The function efficiency is directly proportional to the intensity of rainfall.** Different models of filters were set in place to capture rainwater from varied rooftops.

➤ **Govt. has come forward** and installed 'Rainy' RWH systems in Many Govt. Primary schools in rural areas and able to mitigate the water crises by providing hygienic water for mid-day meals and also overall usage in schools.

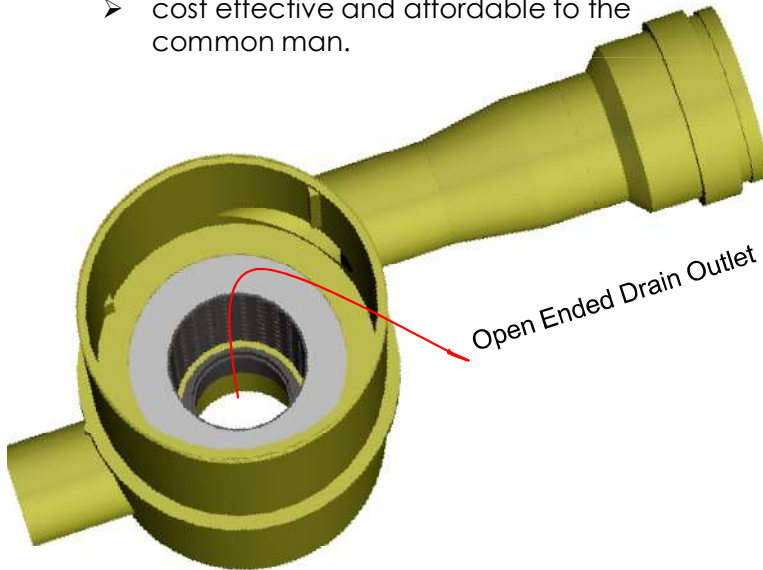
➤ In Urban areas during monsoon, many apartments and industries were fulfilling their water needs through water tankers and ground water, which was **reduced in many places to the extent of 35%.**



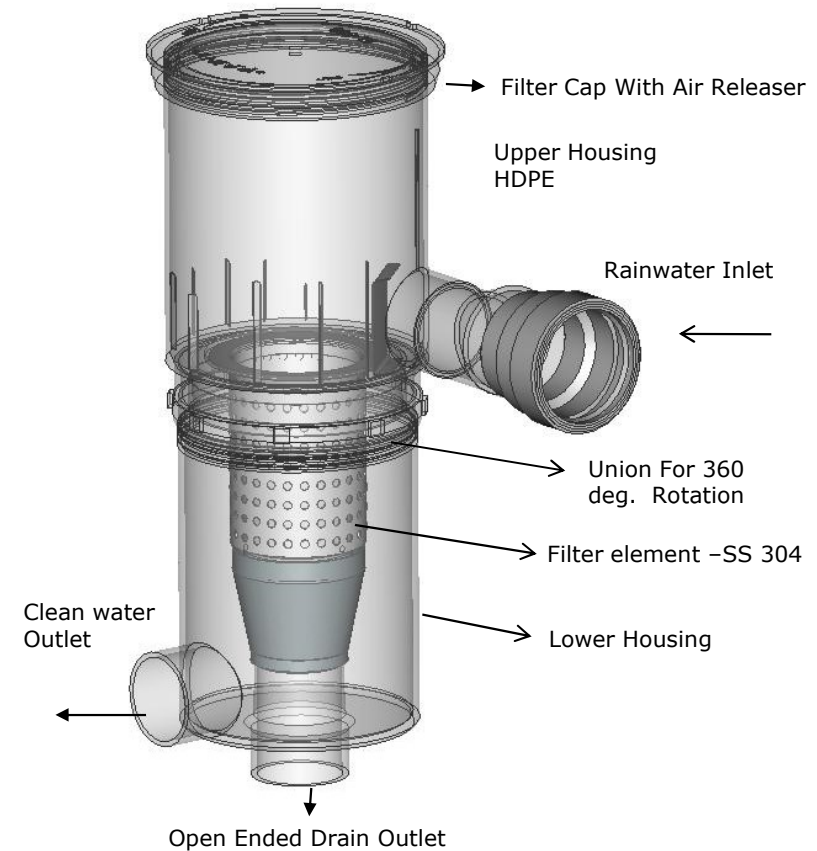
Rainy FL-Series Dual Intensity Rainwater Harvesting filter Patent -Design Reg. No. 238711

Uniqueness of Product Technology

- Open ended
- Auto flush out of dirt & Debris
- self Cleaning
- No External Power
- Works By Gravity Head less Than -2 Feet
- Working Principle –Cohesion & Centrifugal force
- No Moving Parts , No wear & tear
- Various Models Ranging from 50 TO 500 SQMTRS Roof area
- Retrofit – any local Plumber Can Fix
- With stand the Load from 5 MM to 75 Mm intensity of Rainfall per hour
- cost effective and affordable to the common man.



Transparent View of Dual Intensity Rainwater Harvesting Filter





Uniqueness of Product Technology

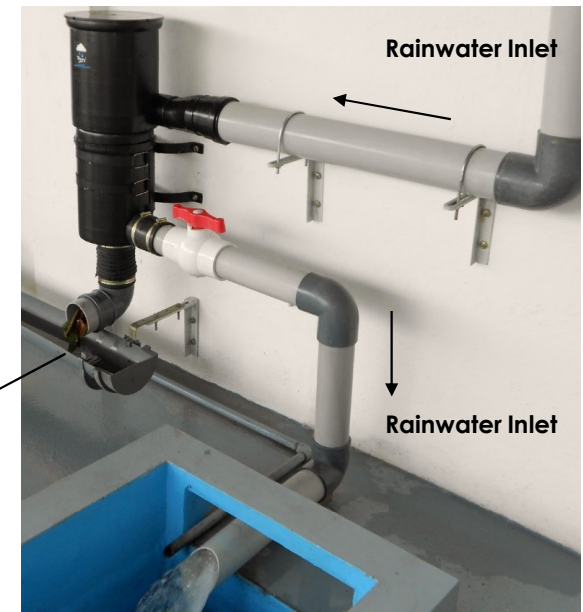
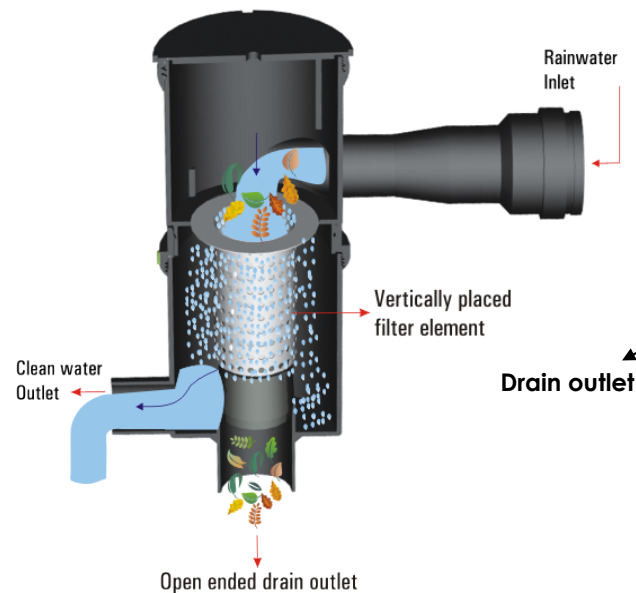


Fig. 3: Cut section view of Rainy Dual Intensity RWH Filter

- **Function of the Filter:** Rainy Filters are designed with self-cleaning mechanism and to fix to the wall by connecting Rooftop Rainwater Drain Pipes. When the Rainwater along with dirt & debris Flows by Gravity through the pipeline, enters into the filter, starts rotating in anticlockwise direction at the periphery of the upper Housing so as to flow into the SS-304 filter element placed in the lower housing in angular Motion at specific speed & velocity which creates Cohesive force at low intensity & centrifugal force at high intensity of rainfall. In both situations, involving low & High Intensity of rainfall, the working principle of the filter based on Cohesive & centrifugal force respectively, aids the filter element to flush out automatically the dirt & debris through the Drain Outlet and simultaneously divert clean water into the Sump/ recharging well through the Clean water Outlet, which can be used for reutilization or Recharging of Groundwater Source.

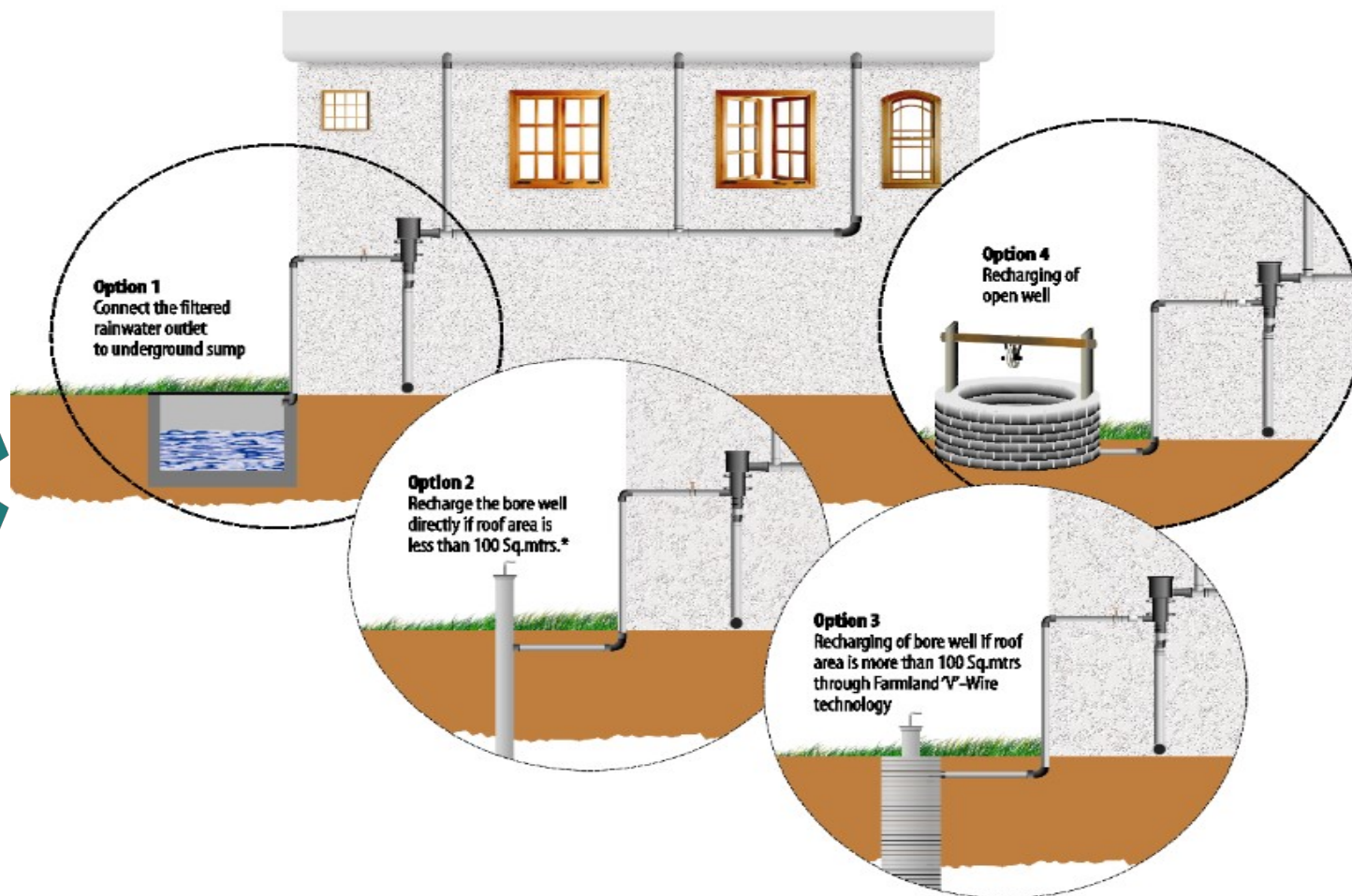




Advantages

- By storing in the sump & reutilizing, around 35% of the annual requirement of water to a household can be achieved. Dependency on water tankers, ground water and corporation water can be greatly reduced
- By Recharging, Dried bore wells can be Rejuvenated and also due to the dilution effect the hardness, salinity and TDS contents in the bore well reduces and also because of replenishing the deeper layers of the earth's crust which in turn insulates the earth from rise in temperature thereby reducing global warming
- Pumping of water from distant places, deeper depths & Movement of Water Tankers can be avoided
- Prevents water logging in low lying areas.

VARIOUS APPLICATIONS OF RAIN WATER HARVESTING





DUAL INTENSITY RAINWATER HARVESTING FILTERS



Technical Specification & Parameters of Rainy FL-80

Suitable for area	Up to 120 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	120 LPM
Filter element	SS-304 Multi-surface screen – Food Grade
Mesh size	250 microns
Inlet size	90 mm
Clean Water Outlet (CWO) size	63 mm
Drain Outlet size	90 mm
Filter housing	UV stabilized - HDPE
Filter efficiency	Above 90%
Source of power	Gravity



DUAL INTENSITY RAINWATER HARVESTING FILTERS



Technical Specification & Parameters of Rainy FL-150

Suitable for area	Up to 180 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	180 LPM
Filter element	SS-304 Multi-surface screen – Food Grade
Mesh size	250 microns
Inlet size	90 mm
Clean Water Outlet (CWO) size	75 mm
Drain Outlet size	90 mm
Filter housing	UV stabilized - HDPE
Filter efficiency	Above 90%
Source of power	Gravity



DUAL INTENSITY RAINWATER HARVESTING FILTERS



Technical Specification & Parameters of Rainy FL-200

Suitable for area	Up to 225 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	225 LPM
Filter element	SS-304 Multi-surface screen – Food Grade
Mesh size	250 microns
Inlet size	110 mm
Clean Water Outlet (CWO) size	90 mm
Drain Outlet size	90 mm
Filter housing	UV stabilized – HDPE
Filter efficiency	Above 90%
Source of power	Gravity



DUAL INTENSITY RAINWATER HARVESTING FILTERS



Technical Specification & Parameters of Rainy FL-300

Suitable for area	Up to 350 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	340 LPM
Filter element	SS-304 Multi-surface screen – Food Grade
Mesh size	250 microns
Inlet size	110 mm
Clean Water Outlet (CWO) size	110 mm
Drain Outlet size	90 mm
Filter housing	UV stabilized – HDPE
Filter efficiency	Above 90%
Source of power	Gravity



DUAL INTENSITY RAINWATER HARVESTING FILTERS

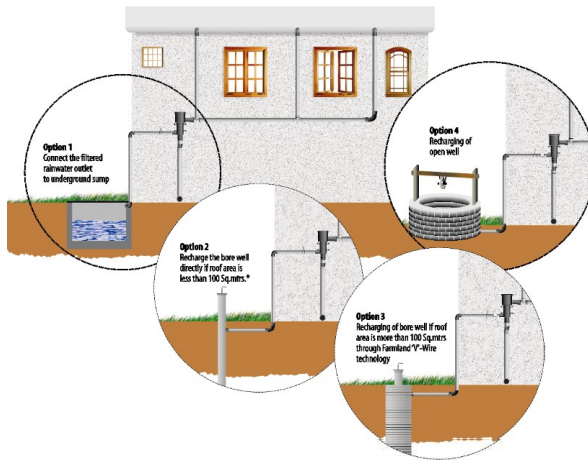


Technical Specification & Parameters of Rainy FL-500

Suitable for area	Up to 500 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	480 LPM
Filter element	SS-304 Multi-surface screen – Food Grade
Mesh size	250 microns
Inlet size	110 mm
Clean Water Outlet (CWO) size	110 mm
Drain Outlet size	110 mm
Filter housing	UV stabilized – HDPE
Filter efficiency	Above 90%
Source of power	Gravity



VARIOUS APPLICATIONS OF RAIN WATER HARVESTING



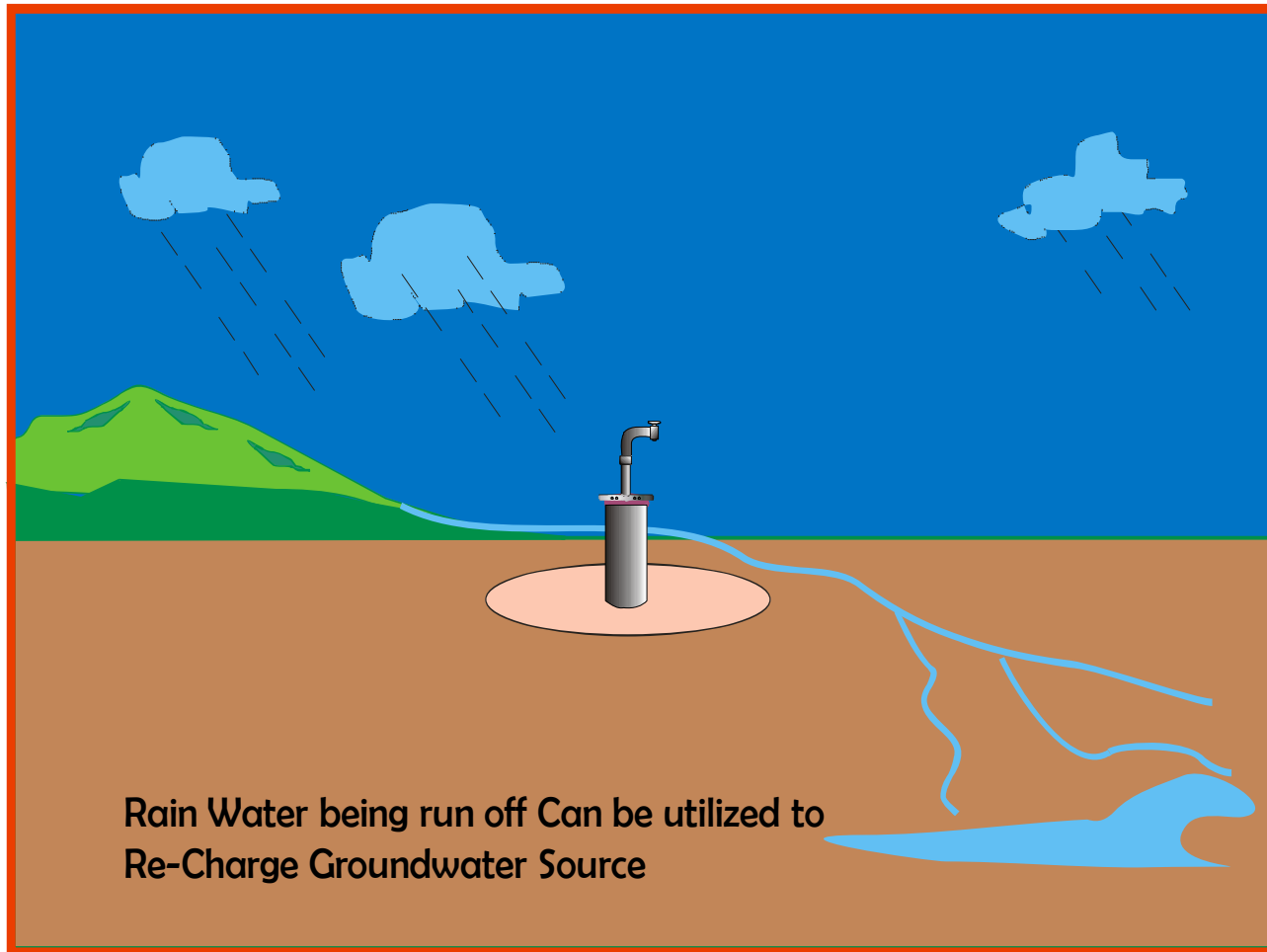
Adoptability



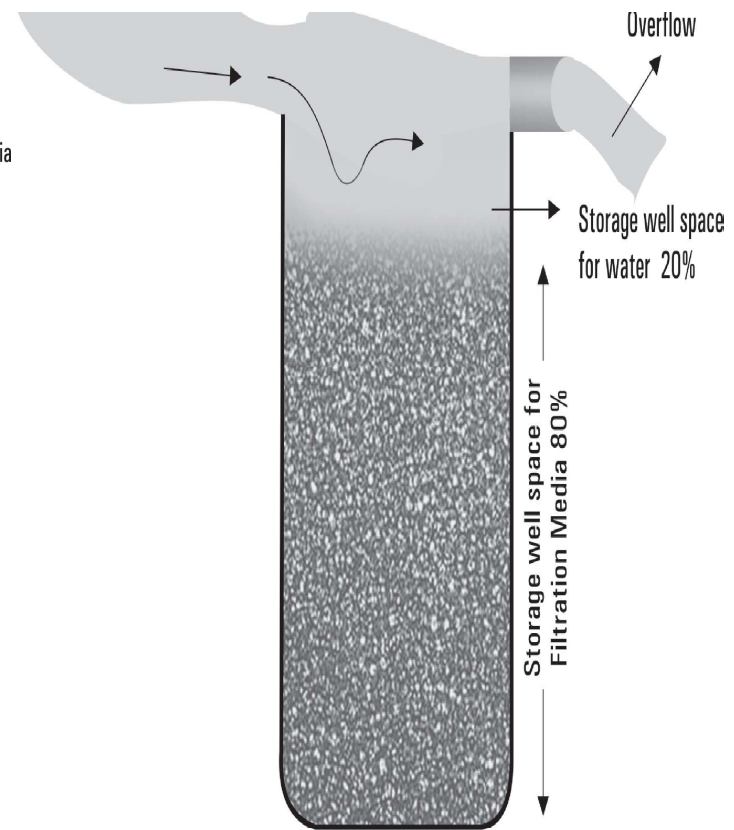
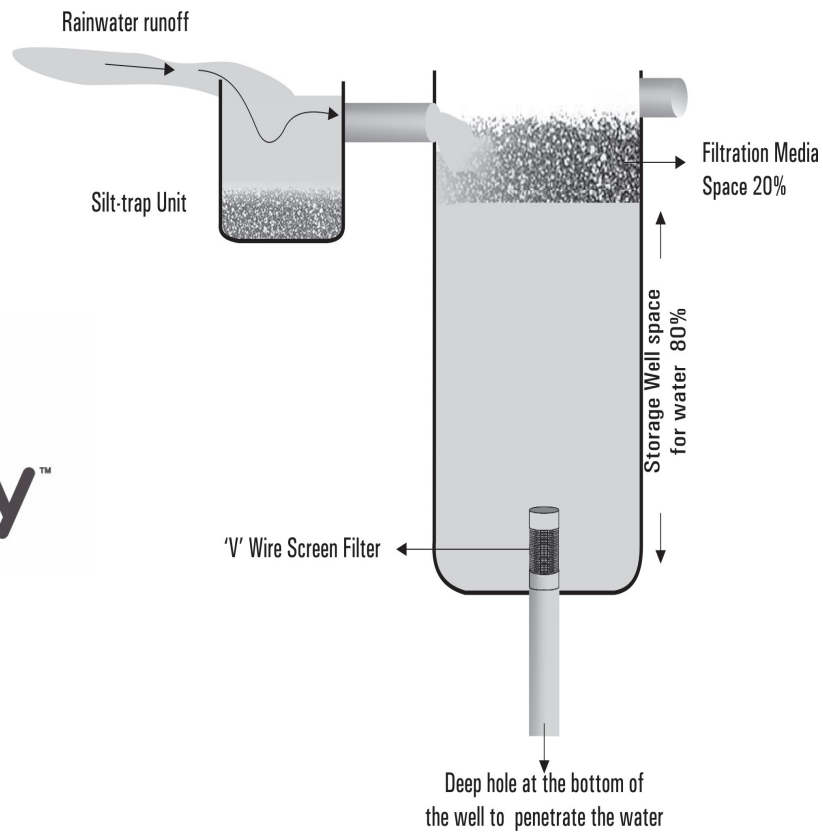
Onsite installation at Various Places

The new improved 'Rainy' Dual Intensity Rain Water Filters has gained considerable popularity, attraction and goodwill amongst the customers, Central & State Governments, architects, contractors, people in the environmental and water conservation field, apartments, educational institutions, hospitals, farmlands, Factories etc. In fact, the Directorate of Ground Water Surveys and Development, Maharashtra, Ministry of Drinking Water and Sanitation, New Delhi, NEERMITHI Kendra's, Social Welfare Department, Panchayat Raj Divisions have incorporated in their respective departments and also letter of appreciation was given to the firm in regard to 'Rainy' Dual Intensity Rain Water Filter. Further, we are exporting the filters to 9 countries.

FL-V Wire Recharge To Recharge Groundwater Source



V-wire type vs Conventional Type:





V-Wire Screen

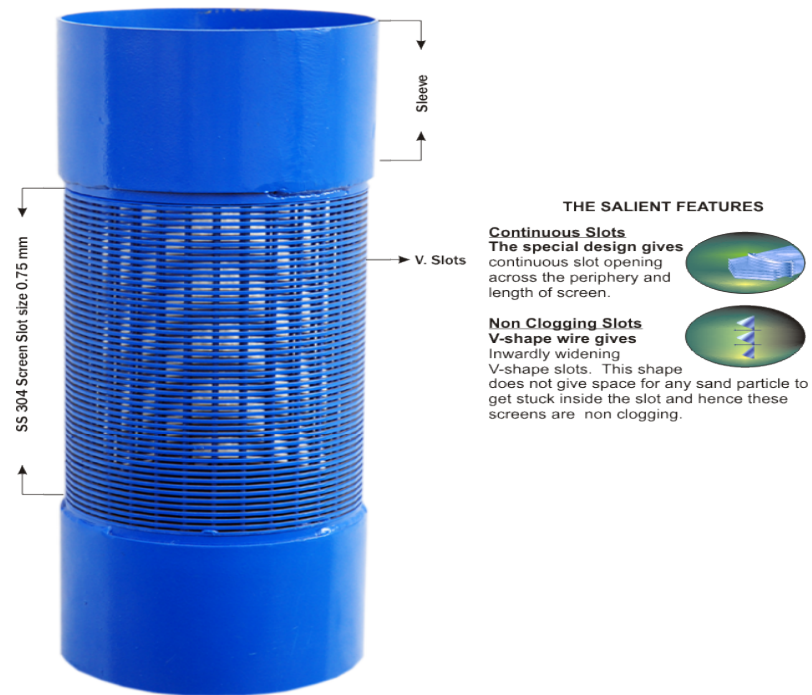
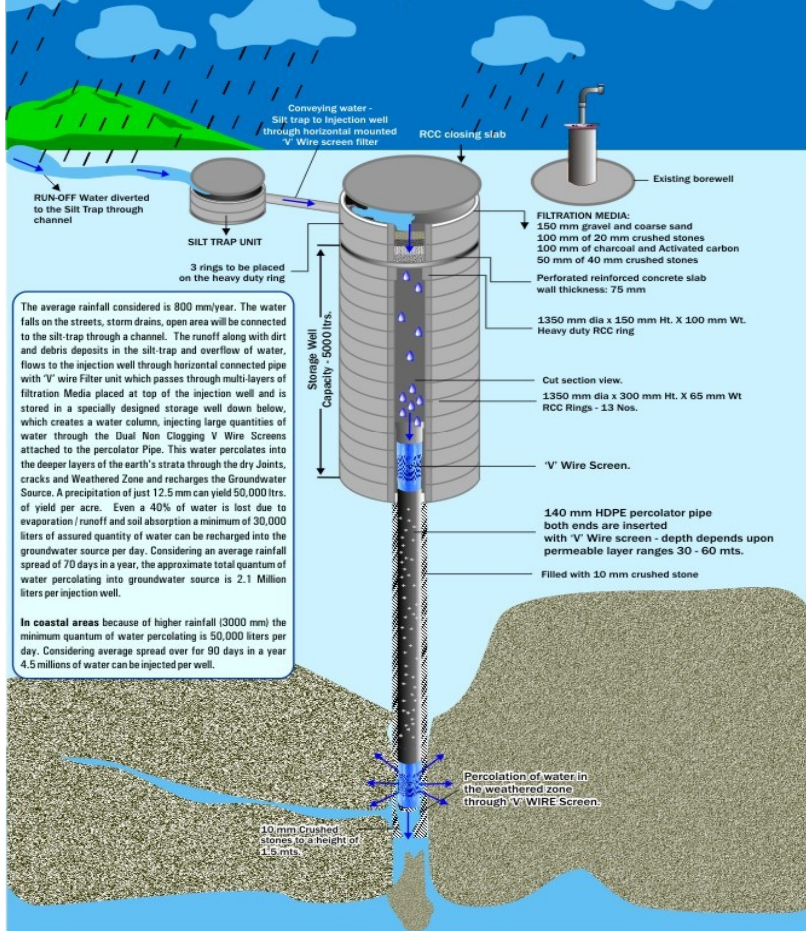


Fig. 2: Front view of 'V' Wire Screen

- The V wire screen is of stainless steel material, grade SS-304, Cage type trapezoidal wire wound screen.
- Screen is evenly distributed continuous slot opening of 0.75 MM, so that it has more open area for minimum turbulence and loss of energy.
- The trapezoidal V shape inwardly widening slots are non clogging, so that sediments have only point contact.
- The diameter of the V wire screen is 150 mm, length 0.5 Metre.

INJECTION WELL TO RECHARGE DRINKING WATER BOREWELLS THROUGH 'V' WIRE TECHNOLOGY (Artificial Recharge and Aquifer Storage and Recovery)



BIRD VIEW of the technology



Special Drilling Equipment Unit for Recharging the Groundwater Source





FL-V Wire Technology is adapted in Both Rural & Urban Areas

Recharging of Groundwater Source
by adapting **FL-'V' WIRE TECHNOLOGY**
in Rural Areas

www.rainyfilters.com

Recharging of Groundwater Source
by adapting **FL-'V' WIRE TECHNOLOGY**
in Urban Areas

www.rainyfilters.com

**`Rainy' & `V' Wire Technology adopted at
Deputy Commissioner's Office at UDUPI**



Recharging of the low yield bore well of Sri. Bettamaraiah, Pandanayakanahalli, Tumkur through Social welfare department has helped the farmer for continuous yield in the bore well and will be able to operate the pump set and by Solar energy and irrigate the farm through Sprinkler irrigation



Commissioner of social welfare Department of Govt. Karnataka Sri. NAVEENRAJ Singh IAS , visited the site after the successful implementation to analyze the results through V wire Technology



Tel No. 22253783

Office of the Commissioner, Social Welfare Department,
Government of Karnataka
5th Floor, M.S.Building, Dr.B.R.Ambedkar Road,
BANGALORE 560001.

NO: SWD/SCSP-2/CR-7/2013-14

Dated: 15.7.2013

The Department of Social Welfare of Govt. of Karnataka initiated an ambitious scheme of providing irrigation water with solar-powered bore-wells to poor SC/ST farmers. Another initiative was to use 'Sprinkler System' to conserve water.

The reason for such an initiative was that many a times the land of the beneficiary is so far that it is difficult to bring electric line to his field or it is exorbitantly costly to do so.

An experiment was undertaken by us to mitigate this problem by proving Solar-Powered-Borewells to a farmer. The beneficiary selected was Sri Bettamaraiah, S/O Hanumanthaiah, in Pandanayakanahalli, Tumkur district in the year 2012 in the drought prone Tumkur district in Karnataka.

It was presumed that farmer will get uninterrupted power supply at least for 6-7 hrs daily in dry months. Solar panels were erected and connected to the bore-well pump.

The challenge was to select the right amount of solar power out-put, right horse-power of pumps and the sufficient water-table to yield water throughout the year.

This work was entrusted to Farmland Rainwater Harvesting Systems to design not only the motor-pump but also to recharge the ground-water. This company is known for their innovative 'V' wire Injection Well Technology to recharge low yielding bore well in other parts of Karnataka.

Before the implementation of the project by Farmland RWH systems, it was observed that the power requirement to lift the water was high to the extent of 7.5 HP because of the Static water level of the bore well water being more than 300 feet in depth. After determining the output



-2-

from the solar-panels the HP, the type of pump was selected after a lot of scientific calculations.

After the implementation of the project, we observed the following in the year 2013:

- The Static water level had risen to 160 Feet in the bore well even during the peak summer months hence the yield in the bore well significantly improved.
- The Horse Power required to draw the water was substantially reduced from 7.5 HP to 3 HP due to the increase in static water table.
- **For the very first time this unique project in the country was undertaken to use Solar power to pump out the water and directly run the sprinklers for 6 hours without the need of electricity & Battery backup.**
- It was also observed that when other bore wells in the surrounding areas (which were not recharged), have low yields or dried up in summer months this bore-well kept yielding water.

Recharge of the bore-well undertaken by Farmland Rainwater Harvesting Systems through their innovative V-wire technology has immensely helped the farmer to get water in the summer months also. With little incremental cost of project, this recharge has yielded tremendous results.

I complement Farmland Rainwater Harvesting Systems to help the Govt. in making this pilot-project a success.


(Naveen Raj Singh IAS,) Commissioner,
Social Welfare Department,
Bangalore.

To

The Managing Director,
Farmland Rainwater Harvesting Systems,
BANGALORE.

KSIDC MD Mr. NAVEENRAJ Singh IAS at Installation Site at KGANIJA BHAVAN


Rainy™



CEO of Chamrajnagara – Sri Sundernayak at Installation Site





Mangalore, Tuesday
April 27, 2010 Pages 22



www.deccanherald.com
Vol 11 No 116 Rs 3.50 M1

DECCAN HERALD

Water recharge project to be extended to 13 villages

Bhakti V Hegde

MANGALORE: Dakshina Kannada Zilla Panchayat is thinking on innovative lines. With its water recharge project initiated at Munnur and Kolnad Gram Panchayats becoming a success, it is all set to extend the project to 13 other villages which have acute shortage of drinking water by June 2010.

Someshwara, Manjanady, Kotekar, Pavor, Konaje, Belma, Kinya, Harekala, Meramajal, Naringana, Pajiru, Kurnadu and Badagabettu are the villages that ZP intends to implement the water recharge projects. Speaking to *Deccan*

Herald, Zilla Panchayat Chief Executive Officer P Shivshankar said that these villages including Munnur, Kolnadu were being supplied with tanker water for last one decade.

The problem in these villages is either salinity due to salt water incursion or drying of bore wells during summer.

"Understanding that digging more bore wells is not a scientific solution for the region, we thought of recharging the existing bores with rain water harvesting system in place. Likewise a company named Farmland Rain Water Harvesting System took up the project in July 2009 at 13 points (3 open well, with roof top rain water harvesting system, 10

bore wells) in Munnur and 13 bore wells in Kolnad.

The structures received just three rainfall and the water thus collected is being utilised by the people at present this year," Shivshankar said and added that the project will be started in the remaining 13 villages before the onset of monsoon so that the volume of water collected is considerably more. The entire project is expected to cost about Rs 1.5 to 2 crore.

CEO said that there is no dearth of funds and since both Central and State governments are supporting projects on sustainable growth and use of resources, getting funds for the said project should not be a problem.

CEO informed that Chief Minister's office had recently asked the Zilla Panchayat to send in details on its 5 most important projects.

In the letter, CEO had written water recharge project as the most ambitious project of the district.

"There are 996 bore wells functional in the district, 963 minor water supply and 5,219 hand pumps and open wells. There is a need to recharge 5,250 water resources of the lot adopting the recharge method, which will require about Rs 52.50 crore," reads the letter to CM's office.

CEO says that if the required amount of funds are released then the drinking water prob-

lems in the entire district can be solved completely but if the said funds are not released then the recharge works will be taken up in villages in Mangalore and Rantwal taluk on priority basis with available funds.

In 2005-06 a total of Rs 222.00 lakh was spent to solve drinking water problems, in 2006-07 as much as Rs 162 lakh was utilised, in 2007-08 a total of Rs 204 lakh was used for the same, Rs 100 lakh was utilised in 2008-09.

Statistics

In 2009-10 a grand total of Rs 332 lakh has been spent to tackle drinking water problem in the district.

DH News Service



C'magalur ZP's rainwater harvesting project a su

Author: B Thipperudrappa

- Published Date: Jan 16, 2010 4:24 AM
- Last Updated: May 16, 2012 3:06 PM

CHIKMAGALUR: The 'Swajala Dhara' scheme introduced by the government to recharge drinking water borewells in Chikmagalur district has been successfully implemented in association with Farmland

CHIKMAGALUR: The 'Swajala Dhara' scheme introduced by the government to recharge drinking water borewells in Chikmagalur district has been successfully implemented in association with Farmland Rainwater Harvesting Systems, a private organisation, thanks to the efforts of former Zilla Panchayat (ZP) chief executive officer K Sundar Naik.

According to a release from the ZP executive engineer, 15 borewells in Chikmagalur taluk, 69 in Kadur taluk and 75 in Tarikere taluk, have been recharged in as many as 159 villages which face acute drinking water crisis during summer, using V-wire technology. After rainwater is collected in the injection well, it is filtered through filtration media consisting of different layers including a 10 cm layer of small crushed stones and sand, 10 cm layer of baby stones and a five cm layer of charcoal and activated carbon, besides small stones measuring 5 cm by 40 mm.

A 4.5-foot RCC cement ring of 50 mm thickness is the next stage of the filter. Below it is a 13-foot long and twofoot wide pipe with V-wire screen at its bottom. There is also a 10 mm perforated casing pipe along with gravel packing. The rainwater after passing through V-wire screen and the casing pipe joins the groundwater.

Naik, now the CEO of Chamarajanagar ZP, spoke to the Express and said the progress of the 'Swajala Dhara' scheme at the end of October 2009, after the implementation years from 2003- 2004 to 2005-2006 was 100 per cent, utilising Rs 1.11 crore out of the available Rs 1.13 crore in 2003-04, Rs 41.73 lakh out of the available Rs 41.96 lakh during 2004-05. Similarly Rs 95.94 lakh was utilised out of the Rs 1 crore available in 2005-06.

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The art of reviving borewells

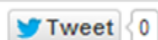
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V. PANEESHA

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common complaint: How long will this borewell function?

adopting V-wire technology.

The Chamarajanagar zilla panchayat has adopted the 'V-wire technology' to recharge defunct borewells in the M.M. Hills region and increase the groundwater quantity and reduce the salinity and fluoride content in the water.

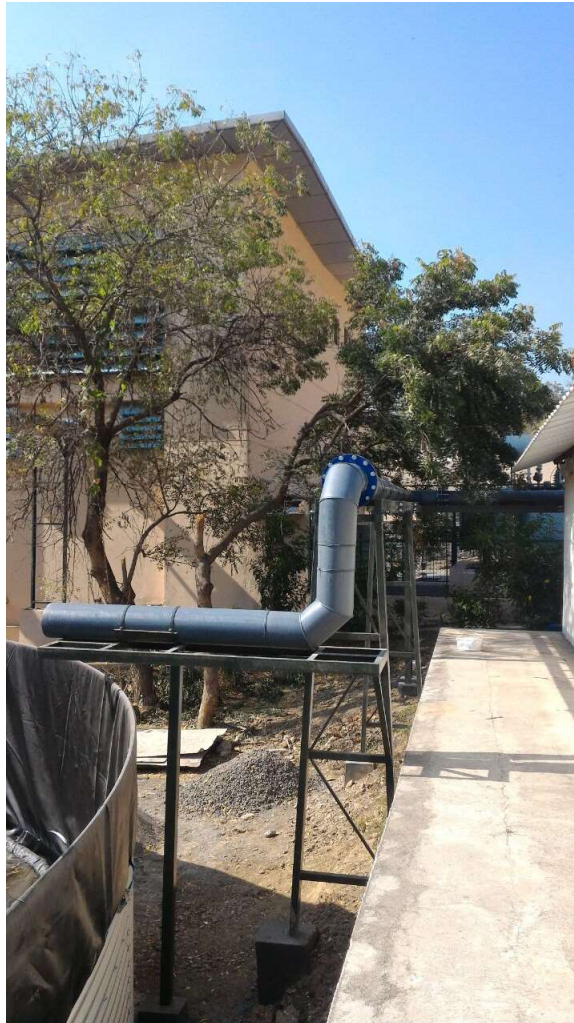
The lakhs of devotees who visiting M.M. Hills temple go without adequate drinking water. The borewells sunk at more than 35 places are defunct due to depleting groundwater source. The ZP chief executive officer, R.Sundar Naik, recently convened a meeting at M.M. Hills to discuss with the local gram panchayat members the possibilities of rejuvenating the borewells by



V- wire Injection well Technology adopted by Infosys Pan India



Installation of RWH system at Infosys Pune By Using Rainy Technology



Installation of RWH system at Infosys , M City Chennai M-CITY By Using Rainy Technology



Installation of RWH system at Infosys –SHOLINGHNELLUR Chennai By Using Rainy Technology





Installation of RWH system at Aditya Birla –ware Houses –Bangalore





**Installation at Rural Govt. School –
SHIMOGA District**



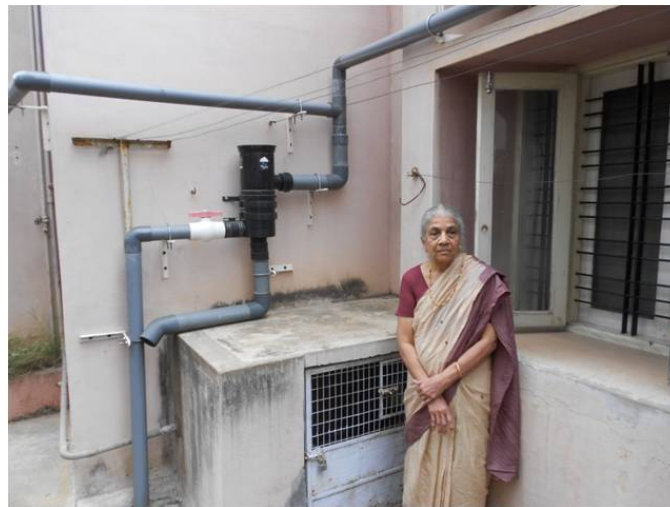


Installation at Govt. schools at Eastern Region





Individual Houses





KONKAN RAILWAYS:

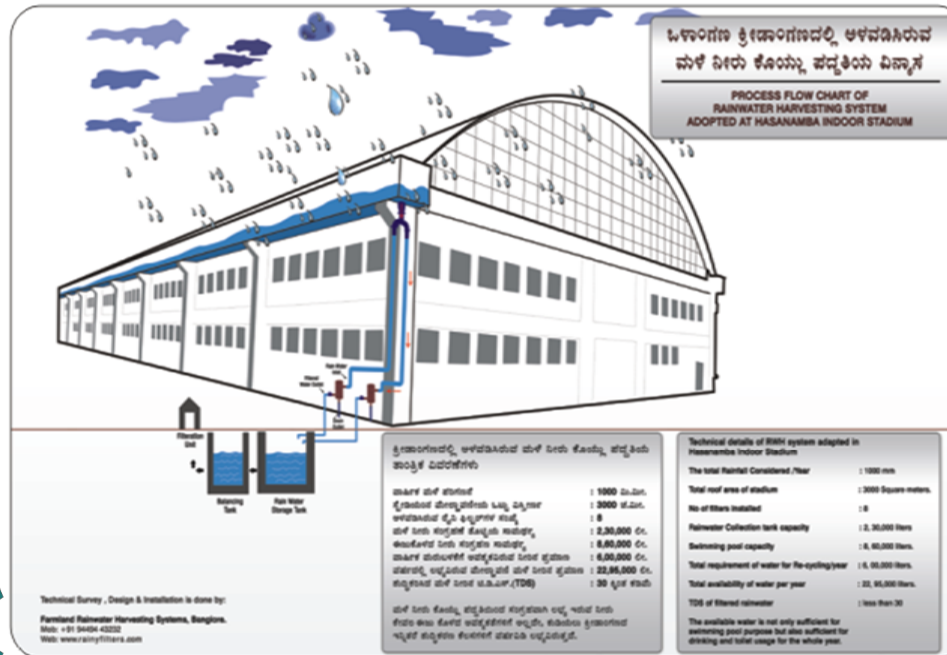




Commercial buildings



RWH system HASANAMBA Indoor Stadium-Hassan





INDUSTRIES



DISSEMINATION Of Information Involving RWH Technology & Awareness Generated At Various Places Of The Country. (Hon. State & Central Minister at Stall)





DISSEMINATION Of Information Involving RWH Technology & Awareness Generated At Various Places Of The Country.(hon. Principal Secretary & Deputy Secretaries at Stall in New Delhi)



Hon. CM & Ministers and Top Bureaucrats at Stall & Installation sites




Rainy™



Most of the secretaries and Principal secretaries have Visited Rainy R& D center before Implementation



Challenges Faced:



- The exiting system was filtration by way of sedimentation tanks, resulting in more suspended particles in the water and periodic maintenance and repeated use of consumables like charcoal, sand and pebbles were needed to over come this problem by designing self cleaning and scientific filters took almost one decade but finally succeeded with break through technology
- Lack of awareness by the general public that water is a limiting factor
- Indifferent attitude of the people relying only on the Government to provide their water needs and initial cost in implementation of the project
- More than a decade since product under development sustaining was tough
- ✓ *Right from the year **2002** to the present, **2017**, FLRWHS has developed state of the art rain water harvesting technologies both in roof top as well as ground water recharge which is implemented on a pan India scale. 16 years of relentless R &D has helped establish FLRWHS as one among the top premier firm in the Country in the field of rain water harvesting. The cutting edge state of the art technologies developed by the firm are implemented throughout India successfully. Today, FLRWHS has a complete range of roof top rain water harvesting filters to cater to all segments of society and Industry with efficiency levels of over 90 %.*

Future Roadmap



- In order to penetrate and increase the sales through PAN India the company is investing in establishing a wide Dealer Network by providing them with LIVE DEMO Mobile Units , advertisement in Newspapers, Magazines, Hoardings , Printing Literatures, Participating seminars, KRISHI MELAS, Industrial Exhibitions, etc.
- *Constructing a NEW R&D centre in 5 acres Land in Hadhihally exclusive for The Development New Technologies in the water field .*
- Complete Layout is Designed With Most Innovative Water Harvesting Techniques to augment the Groundwater Source and also we want to give live Demos & Training to the Farmers/ students/Plumbers/ architects / Engineers / Bureaucrats/ Policy Makers/ elected representatives and educate & encourage them to implement the same to conserve Precious water .
- The technology wont be limited only to Rainy & V Wire , We have started Developing Special Clamping systems to Hold & Withstand Dead weight of Running RWH Pipelines/ Instead PVC pipes , developing HDPE pipes with simple Coupling system so that any local plumbers can fix the pipes and longevity of Pipeline & Installation will be more than 20 years . Developing low pressure operating sand & Activated carbon filters to filter Raw rainwater in large buildings .
- To monitor / Improve quality / Manufacture / Training/ sales/ Service will be bringing under One Roof at Hadhihally Unit.
- Want To provide facilities and support those economically weak & wants to experiment and make their technology successful in the Field of water and also help them to apply for PATENT



Excellence



National Award for Excellence in Water Management (2009), under the most Innovative Water Saving Product, by Confederation of Indian Industry (CII) for the Invention of 'Rainy' Self-cleaning Auto Flush out Filters



in the year 2010 International Award as "Earth Care Award for Innovation for climate protection" for the Invention of 'Rainy' Self-cleaning Auto Flush out Filters



Green Champions National Award (2011), by Indian Green Building Council (IGBC) for the Work done and Technologies developed in the Field of Water Conservations



In the year 2014 International award from JSW – The Times of India "Earth Care Awarded for the Innovative FL-V Wire Injection Well Technology in the Category of 'Innovation for Climate Protection'.



In 2017 honoured with National award by Aqua Foundations as Aqua Foundation Excellence Award 2017 under the category of Industrial Excellence in Development of Technology in the Field of Rainwater Harvesting



In the year 2018 SKOCH Group-New Delhi awarded 'Rainy' Filters - SKOCH ORDER of –Merit for qualifying amongst TOP-100 SMES in India and also Conferred Highest Independent Honour by honouring SKOCH AWARD –ACHIVER Silver for The Innovation of 'Rainy' Filters

