



ALLEGIANCETM

WATER MANAGEMENT

— A Unit of Allegiance Enterprises —



WATER CONSERVATION

HARVEST, REUSE & RECHARGE

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ABOUT US

Allegiance Water Management™, a division of Allegiance Enterprises, stands as a beacon in the realm of water management and conservation solutions. Since our inception in 2012, we have remained steadfast in our commitment to delivering innovative, top-tier solutions aimed at combating the looming threat of water scarcity. Our primary objective is to champion environmental sustainability through our comprehensive suite of services.

Specializing in rainwater harvesting solutions, we offer a range of services designed to be both low-maintenance and robust. From system installation to ongoing maintenance, we ensure seamless operation and longevity. Our footprint spans across India, where we take great pride in delivering unparalleled quality and prompt assistance.

With a rich portfolio of over 1000 Plus successful projects nationwide, our team of seasoned professionals is dedicated to excellence. We offer expert consultancy services tailored to artificial groundwater development and aquifer rejuvenation. Employing techniques such as recharge wells, injection wells, and rooftop rainwater harvesting, we facilitate the sustainable replenishment of water sources.



VISION

The vision of Allegiance Water Management™ is to lead the way in creating a sustainable water solution for a flourishing future. With a commitment to innovation and environmental stewardship, we strive to lead the way in conserving and responsibly managing water resources. Our vision encompasses creating a world where water is valued, protected, and utilized efficiently, fostering resilience and prosperity for all.



MISSION

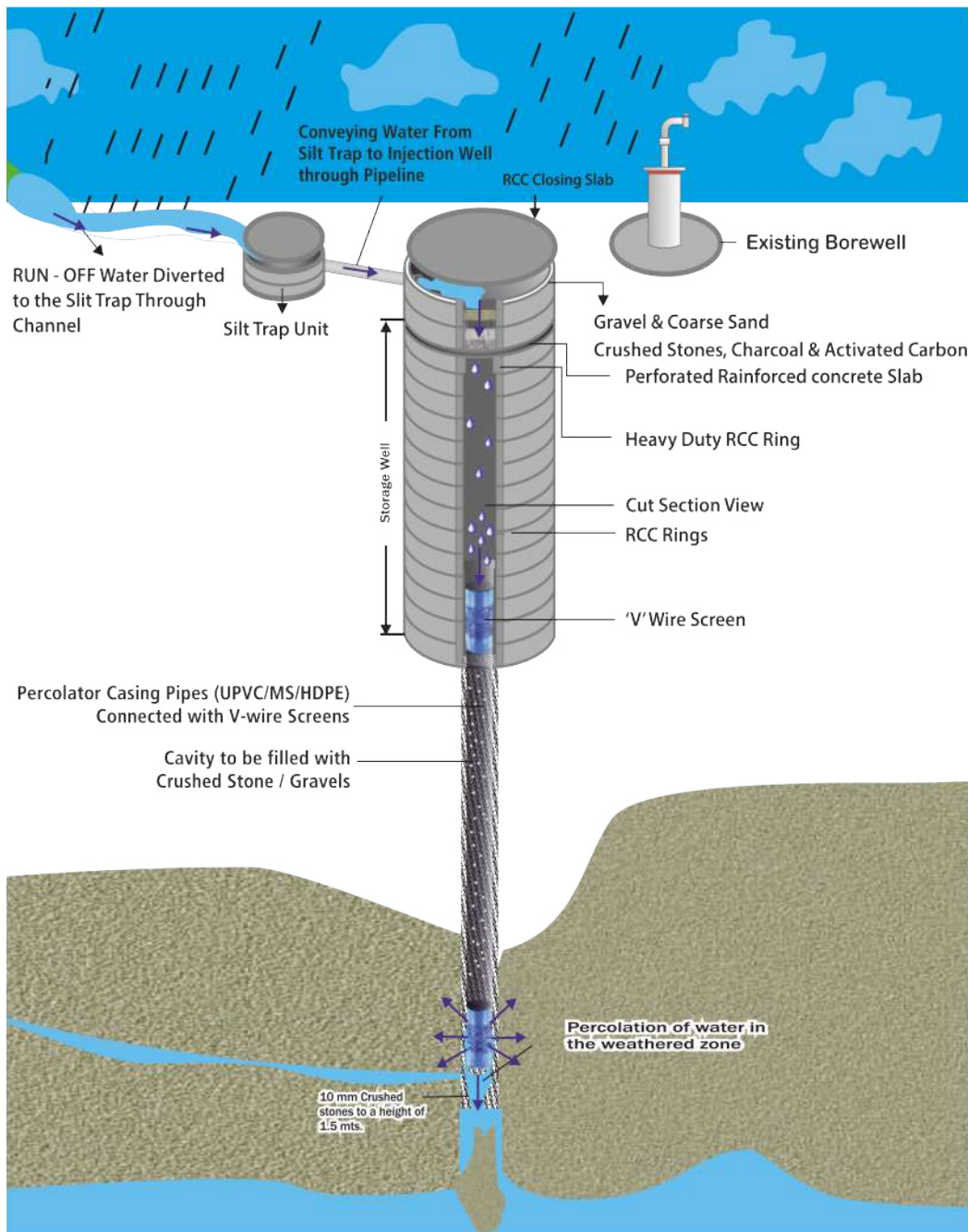
At the core of our endeavors lies "Mission Rainwater Harvesting," a driving force that propels us forward. We extend an invitation to all to join us in our quest to conserve water resources and safeguard the environment. When it comes to water management and conservation, choose Allegiance Water Management™ as your trusted partner.

SUMMARY OF PRODUCTS AND SERVICES



WATER CONSERVATION
HARVEST, REUSE & RECHARGE

Groundwater Development by Recharging Rainwater to Aquifer via V-wire injection well and rainwater recharging pond



Salient Features of Rain Water Recharge System

Scientific & New Technology Based on V-wire Injection well Technique for Artificial Recharge of Rainwater to Groundwater

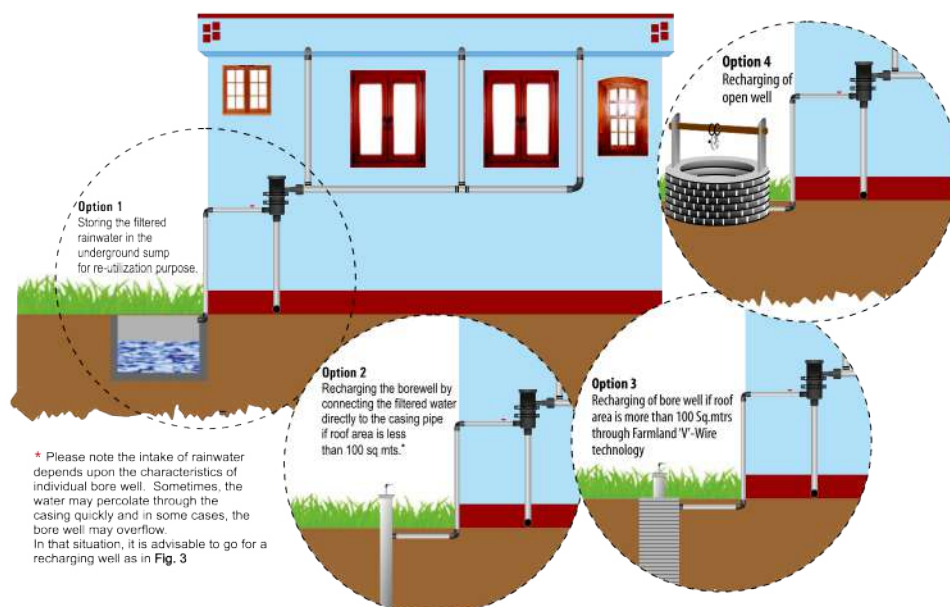
- Compact & Modular Design
- Small space of Land required
- Low Maintenance
- No Water Clogging Problem
- Highest Filtration Performance
- Reusability of Space Occupied by System

Rejuvenation of Aquifers by Recharging Rainwater via Defunct Borewell to Aquifer



ROOFTOP RAINWATER HARVESTING

Various Application through Rainy Filters

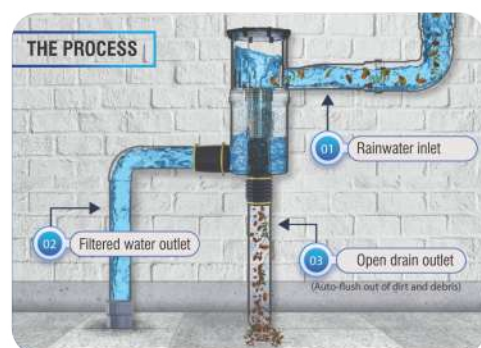


Key Technology & Innovation Highlights

- Unique Technology
- Self Cleaning Dual Intensity Filter
- High Efficiency
- Extremely Versatile & Compact
- Superior Built Quality
- Easy To Install
- Value For Money

TECHNICAL SPECIFICATIONS	RAINY FL-80	RAINY FL-150	RAINY FL-250	RAINY FL-300	RAINY FL-500
Suitable for Roof Area	Up to 120 SQMTRS	Up to 180 SQMTRS	Up to 250 SQMTRS	Up to 350 SQMTRS	Up to 500 SQMTRS
Intensity of Rainfall	Up to 75 mm/Hour	Up to 75 mm/Hour	Up to 75 mm/Hour	Up to 75 mm/Hour	Up to 75 mm/Hour
Filter Type	Open ended, Non-clog				
Working Principle	Cohesive Force & Centrifugal Force				
Operating Pressure	> 1 foot of Gravity Head (0.060kg/cm ²)				
Max Discharge at (CWO)	120 LPM	180 LPM	250 LPM	340 LPM	480 LPM
Filter Element	SS-304 Multi Surface Screen- Food Grade				
Mesh Size	250 Microns	250 Microns	250 Microns	250 Microns	250 Microns
Inlet Size	90 MM	110 MM	110 MM	110 MM	110 MM
Clean Water Outlet (CWO)	63 MM	75 MM	90 MM	110 MM	110 MM
Drain Outlet Size	90 MM	90 MM	90 MM	90 MM	110 MM
Filter Housing	UV treated High Density Polyethylene				
Filter Efficiency*	Above 90%	Above 90%	Above 90%	Above 90%	Above 90%
Source of Power	Gravity	Gravity	Gravity	Gravity	Gravity

*Efficiency achieved under standard operating conditions



Harvesting of Rainwater by Collection and Reuse System



Electromagnetic Flowmeters



Meter Size	OD (mm)	W (mm)	H (mm)	FD (mm)	Flow Range (m ³ /hr)		
					Min	Normal	Max
15 NB	88.9	100	180	200	0.03	1.2723	6.4
20 NB	98.4	100	180	200	0.11	2.2619	11
25 NB	107.9	100	180	200	0.18	3.5341	18
32 NB	117.5	100	210	200	0.29	5.7906	29
40 NB	127.0	100	210	200	0.45	9.05	45
50 NB	152.4	100	210	200	0.71	14.14	71
65 NB	177.8	100	220	200	1.19	23.892	119
80 NB	190.5	100	240	200	1.81	36.19	181
100 NB	228.5	150	274	250	2.83	56.55	283
125 NB	254.0	175	300	250	4.42	88.35	442
150 NB	279.4	175	330	300	6.36	127.23	636
200 NB	342.9	175	390	350	11.3	226.18	1130
250 NB	406.4	244	440	450	17.66	353.41	1766
300 NB	482.6	250	520	500	25.43	508.91	2543
350 NB	533.4	250	520	550	34.62	692.68	3462
400 NB	596.9	250	520	600	45.22	904.72	4522
450 NB	635.0	623	632	698	57.23	1145.04	5723
500 NB	698.5	623	686	768	70.65	1413.63	7065
600 NB	812.8	818	772	918	101.74	2035.63	10174

Technical Specification Sheet for Electromagnetic Flow meter

Line Size : 15 NB to 1000 NB

FLOW CONTROLLER - TRANSMITTER (Separate FIT)

- | | | |
|---|--------------------|---|
| 1 | Housing | Cast Aluminium |
| 2 | Protection Class | IP-66 |
| 3 | Power Supply | 90-265 VAC, 50 Hz |
| 4 | Outputs | (a) 4-20 mA
(b) Isolated Pulse Output 24Vdc
(c) RS485 MODBUS |
| 5 | Display | Graphic Display |
| 6 | Display Parameters | Instantaneous Flow Rate,
Totalized Flow and Diagnostic Messages. |

FLOW SENSOR

- | | | |
|----|-------------------------|---|
| 7 | Sensor Terminal Housing | C.S Fabricated IP65 |
| 8 | Grounding Electrode | SS316L |
| | Electrode | SS316L |
| 9 | Flow Tube | SS304 |
| 10 | Flange | ASA #150 C.S |
| 11 | Process Pressure | 10 Bar |
| 12 | Process Temperature | 85 Degree C max for Rubber lining &
150 Degree C for PTFE lining |
| 13 | Media | Liquids (Conductive) |
| 14 | Liquid Min Conductivity | 5 S/cm |
| 15 | Liquid Velocity Range | 0.5 m/s to 10 m/s |
| 16 | Accuracy | +/- 0.5% of F.S. |
| 17 | Linearity | +/- 0.5% of F.S. |
| 18 | Repeatability | +/- 0.2% of F.S. |
| 19 | Response Time | < 1 Sec |
| 20 | Flow Range | Programmable |
| 21 | Enclosure Transmitter | Die Cast Aluminium IP 66 |

IOT Based Telemetry Device for Electromagnetic / Ultrasonic flow-meter (CGWA Compliant)



Woltman Type flow count meter



Electromagnetic Type / Battery Powered Electromagnetic



S.S Electromagnetic Flowmeter



Battery Operated Flow meter



Clamp on Ultrasonic Flowmeter



Open Channel Ultrasonic Flowmeter



Turbine Flowmeter



Vortex Flowmeter



GROUND WATER LEVEL MONITORING DWLR (Digital Water Level Recorder OR Piezometer) (CGWA*)

Digital water level Recorder (Piezometer) (with / without telemetry device)

Piezometer is measures the ground water level and also record the data. Data can be displayed through memory card or USB pen drive. we can also display the data in our PC or Mobile through GSM. It is mainly used for measuring the water level of borewell & rivers.

Features :

1. Water proof stainless steel sensor.
2. Compact size, Easy to install & easy to Transport.
3. No maintenance required.
4. Pressure Transducer not affected by Wind or Rain.
5. Monitor the Level of ground water and rivers.
6. 4-20mA current output.
7. Display the data on screen & also store in excel format.
8. High accuracy, reliability & Precise.
9. Rust proof, corrosion resistance.
10. Shilded wire with best quality.

Technical Data :

Water proof stainless steel sensor.	
Output	: 4-20mA or Customization
Maximum Range	: Upto 400 meters
Applicable Media	: Liquid or water
Accuracy	: $\pm 0.5\%$ FS
Housing Material	: SS
Cable Material	: PTFE
Power supply	: 12V dc
Process Temperature	: -20 to 85°C
Hanging	: wall Mounted
Storage	: upto 32 GB
Online Storage	: Cloud based Storage



Manual water level indicator



WATER AND WASTE WATER TREATMENT

STP SEWAGE TREATMENT PLANT (waste water treatment)



ETP (Waste Water Treatment)



INDUSTRIAL RO PLANT (Water Treatment)



WATERSOFTENER



SUSTAINABLE DEVELOPMENT



Land scaping



Water Shed management



Miyawaki Forestation



Drip Irrigation



- Rainwater Harvesting Feasibility Survey.....
- CGWA Clearance NOC and Compliances
- Geohydrological Survey
- Water Audit
- Water Management & Conservation Services
- Topography
- Integrated Rainwater Harvesting Services
- Maintenance of RWH Systems

Ground Water Consultation (CGWA*) and Environmental Services

CLIENT LIST

			and many more.....			

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Allegiance website
QR Code

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Head Office : **Vadodara**

Services available in all Major Districts of Gujarat : **Ahmedabad, Bharuch, Halol, Surat, Valsad, Vapi, Bhavnagar.**

Outside Gujarat : **D & H, Daman & Diu (UT), Indore(MP)** • Instrument Supply : **PAN India**