



# Rainwater Harvesting Catch & Conserve



# INTEGRATED WATER MANAGEMENT

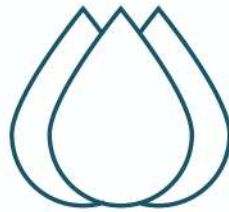
---



**SUPPORTING  
COMPLIANCE**



**INNOVATIVE  
DESIGN SOLUTIONS**



**BETTER  
ENFORCEMENT**



**AWARENESS  
CAMPAIGNS**



**SUGGESTING  
POLICY CHANGES**



**Total No. of Ponds = 72**

**Potential to recharge water = 1983 Million litres**

**Water enough for 40,248 people / year**

Pond Profiling  
**120**

Rural Ponds  
**18**

MC Pataudi  
**2**

MC Sohna  
**28**

MC Hailey Mandi  
**2**

MC Farukhnagar  
**2**

MCG Ponds  
**20**

# SUPPORT A POND



**IQBALPUR POND SITE**

**NAWADA POND SITE**

**MOJABAD POND SITE**



## PLANTATIONS

Potential to recharge water & Oxygen  
1 tree - produces 260 pound of Oxygen per year

MCG Plantation  
**35,000**

MC Sohna Plantation  
**10,000**

MC Pataudi Plantation  
**10,000**

Rural Plantation  
**8000**

MC Hailey Mandi Plantation  
**2,000**

MC Farukhnagar Plantation  
**5,000**

**Total Plantation- 70,000 (Target : 1 lakh +)**



## Plantation Drives across the district



Plantation by MGNREGA women workers, Iqbalpur



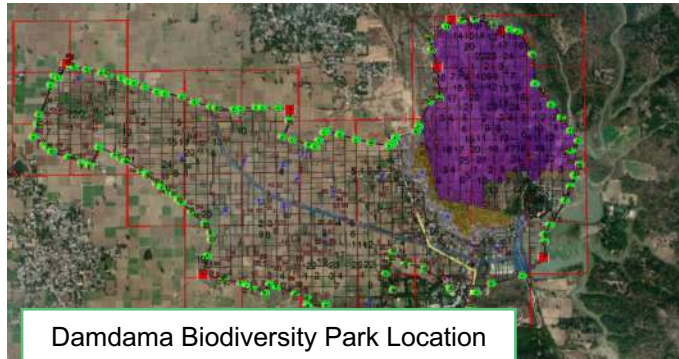
Plantation by Nirmala Foundation



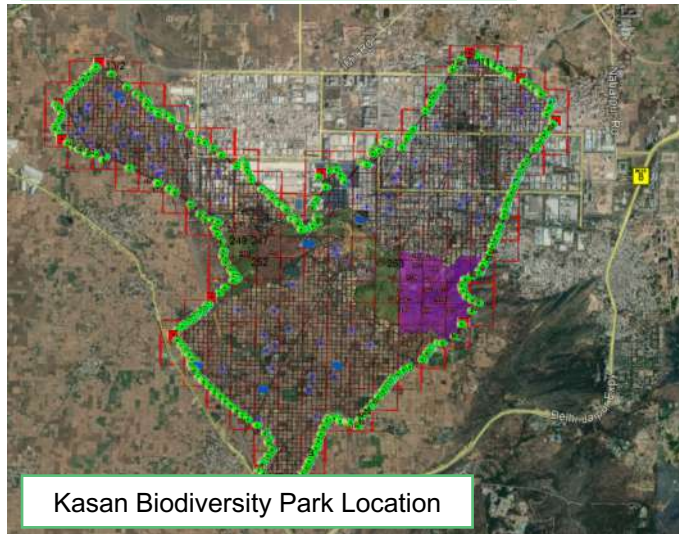
Plantation at Iqbalpur by Sarpanch



Plantation by Urja Samati



Damdama Biodiversity Park Location



Kasan Biodiversity Park Location

Amount of Oxygen produces =  $1.82 \times 10^8$  pound/year  
**Approximately 1,260 people breathe for a year**

Amount of water saved by Afforestation =  $8.2 \times 10^6$  gallon/year  
**Water enough for 630 people/year**

**Biodiversity Parks = 2800 acres (Area)**  
 **$3.12 \times 10^9$  pound/year (Oxygen Produced)**



**5000+**

**No. of people reached**

**156**

**Focused Workshops**

**50+**

**Capacity Building and  
Review Meetings**

**321**

**Public Outreach Events**

**15**

**Community Mobilization**





**Community Mobilization**  
Public Outreach events, Capacity  
Building & Focused Workshops



Community Mobilization Van



Interactive session with Dr. Kiran Bedi



Medawas (Focused Workshop)



Capacity Building Session

# OBJECTIVES

---



**Securing every drop of water from being wasted**

**Recharging ground water table**

**Preventing excess water run-off from causing flooding**

**Educating people on right ways of recharging to avoid pollution**



**WATER  
PROOFING**  
FIX THE LEAK WEEK



Fixing Leaks in Govt. Buildings = 20  
**Potential to save water = 150 KLD**

Total No. of Aerators installed = 8650  
**Potential to save water = 250 KLD**

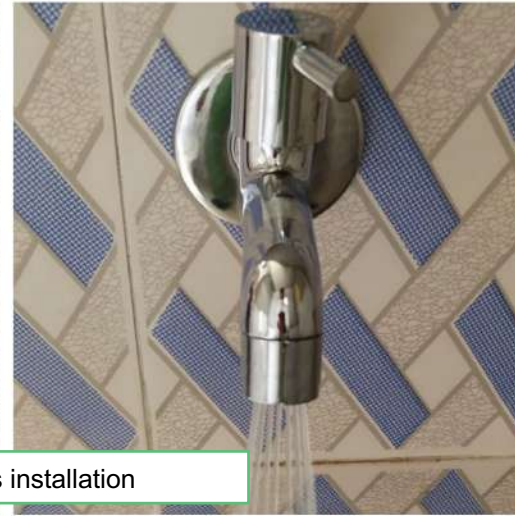
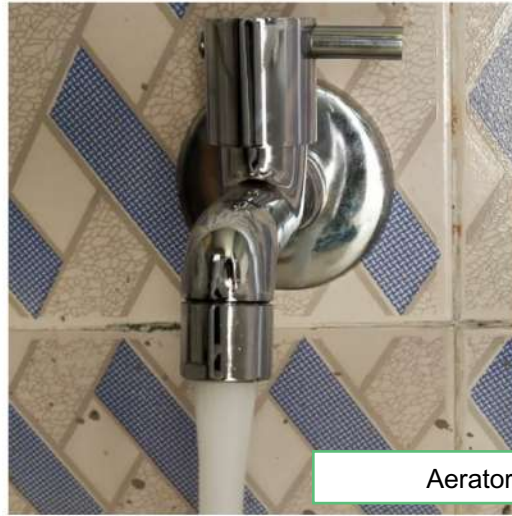
Resolution of water related complaints = 500+  
**Potential to save water - 350 KLD**

Providing design support to private citizens = 20+  
**Potential to save water = 891 KL**



**WATER  
PROOFING**  
FIX THE LEAK WEEK

## Fixing Leakages & Installation of Aerators



Aerators installation



Fixing Leaks

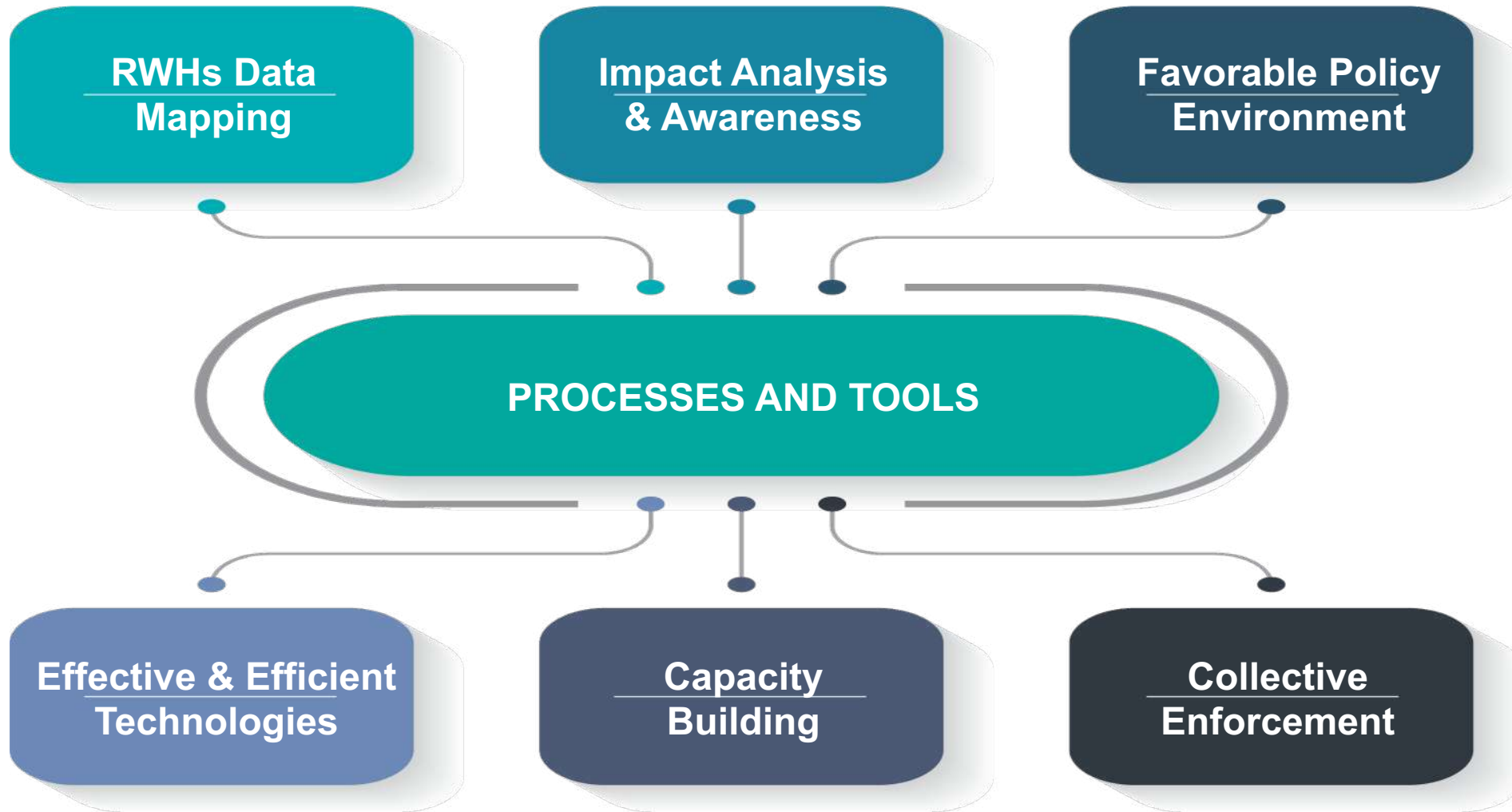


Resolving public complaints  
on leakage at Sector 56, Gurugram



## Rainwater Harvesting Systems





Select block :

GURGAON BLOCK	SOHNA BLOCK	FARUKHNAGAR	PATAUDI
---------------	-------------	-------------	---------

↓ GURGAON BLOCK



PROJECT STAGE MATRIX (Gurgaon) : Rainwater Harvesting

S.No.	Name of School	School Code	Representative Name (Principal or Head In-charge)	Contact No.	Latitude	Longitude	RWH Availability (Y/N)	
1	GPS 4/8 Marla	12127	Ms. Sapna	9813860924	28.455365	77.01866	No	
2	GPS Kadipur	12124	Mr. Vinod Kumar	8076317807	28.450997	77.061259	No	
3	GPS Harshuru	12121	Ms. Anju Sharma	9873588092	28.429947	76.954962	No	
4	GHS Harshuru	766	Miss Anju Sharma	9873588092	28.430215	76.955172	No	School in same built
5	GPS Basai	12125	Ms. Meena	9717567781	28.460383	76.986183	No	
6	GPS Om Nagar	12183						School was demolis
7	GPS Madan puri	12134	Mr.Mahavir Parmar	9990008798	28.461385	77.017396	No	
8	GMS Arjun Nagar	910	Miss Premlata	8901109865	28.458248	77.020203	Yes	GPS/GMS Arjun Na
9	GPS Garouli kalana	12228	Mr. Satnarayan	9891210025	28.444627	76.974952	No	

Block Name	Total	Checked	Unchecked	Functional	Non-Functional	Under Construction	Needs Construction	Water Conservation Potential
Gurugram	204	204	0	32	11	0	161	108 ML/year
Sohna	129	129	0	35	8	5	81	69 ML/year
Pataudi	138	138	0	35	1	12	90	73 ML/year
Farukh Nagar	101	101	0	26	4	5	66	54 ML/year
<b>Total</b>	<b>572</b>	<b>572</b>	<b>0</b>	<b>128</b>	<b>24</b>	<b>22</b>	<b>398</b>	<b>304 ML/year</b>



**WATER PROOFING**  
FIX THE LEAK WEEK

## Data Mapping, Impact Analysis and Awareness



## NOTICE



### Attention :

All the Owners of Residential buildings/ Group Housing Societies/Institutions/Schools/Hotels/Industrial Establishments falling under the jurisdiction Municipal Corporation Gurugram

In order to preserve and protect the Ground water resource from further depletion, in Gurugram city and its adjoining area, it is necessary to ensure proper functioning of Rain Water Harvesting Structure's (RWHS) including Roof Top Rain Water Harvesting Structure for Ground Water Recharge.

In order to address this issue, the following provisions have been incorporated in Haryana Building Code, 2017:

(i) As per clause 8.1(1) of Haryana Building Code, **RAIN-WATER HARVESTING SYSTEM is compulsory to be installed by the plot owner, constructing the building on the plot where the area of the rooftop is 100 square metres or more.**

(ii) As per clause 8.1(2) of Haryana Building Code, **RECHARGING OF GROUND WATER shall be mandatory not only for residential buildings but for all types of buildings, including Group Housing Societies having a plot area more than 500 square metres and above.**

Commissioner Municipal Corporation Gurugram hereby directs all the owners of Residential Buildings / Group Housing Societies / Institutions / Schools / Hotels / Industrial Establishments falling under the jurisdiction of Municipal Corporation Gurugram/HSVP/DTCP to ensure proper functioning of RWHS within their premises by 15th June 2020, so that RWHS are effectively operational for forthcoming Monsoon. As the matter is very urgent and time bound and non-compliance will be viewed seriously and action will be initiated as per provision of law.

*Commissioner MCG.*

1.	Name of the Site	
2.	Owner Name	
3.	Ward and Zone	
4.	Address	
5.	Latitude and Longitude	
6.	Landmark	
7.	Catchment Area	Rooftop Area in sq.m. Open Area in sq.m.
8.	Details of Desilting Chamber	Length in m Breadth in m Height in m Depth and Dia in m if circular
9.	Details of recharge pit	Length in m Breadth in m Height in m Depth and Dia in m if circular Condition of filter media Thickness of boulder, gravel and coarse sand Total thickness of filter media
10.	If any other type of filter media used give details	
11.	Bore details	Depth and dia in m
12.	Details of other components	Physical condition RWH Inlet condition Catchment area condition
13.	Present Status of RWH	
14.	Measure required	Cleaning, modification, retrofitting etc.
15.	Any other relevant information	



**WATER  
PROOFING**  
FIX THE LEAK WEEK

**Creating Favorable Policy  
Environment**








**जल संरक्षण  
और  
वर्षा जल संचयन**



WORKSHOP FOR MCG WORKERS ON  
**RAINWATER HARVESTING**  
FUNCTIONALITY CHECK DRIVE



*A session by Sachin Kumar, Assistant Manager-  
Technical, Gurugram*

MCG hosted a workshop for MCG workers on Rain Water Harvesting functionality check drive in the MCG jurisdiction area this Tuesday, 26th May 2020 at John Hall Gurugram. The workshop cum training session was facilitated by GuruJal Society.

Facilitated by:





**WATER  
PROOFING**  
FIX THE LEAK WEEK

**Capacity Building**

- 23. Takshila Heights, Sector-37 C, Gurugram.
- 24. DLF Cyber City Building No.6 & 7, Sector-25 A, Gurugram
- 25. Raheja Atlantis, Sector-31, Gurugram
- 26. Ivory Tower, Sector-30, Gurugram
- 27. Palm Spring Plaza, Sector-54, Gurugram
- 28. Ourania, Sector-53, Gurugram
- 29. Vatika Towers, Sector-54, Gurugram
- 30. Suncity- La Lagunae, Sector-54, Gurugram
- 31. Star Mall, Sector-30, Gurugram.

**Subject:- Non-functional Rain water harvesting sites in Licensed Colonies.**

**Ref:- Order dated 04.07.2019 of District Administration and directions of Director Town & Country Planning, Haryana**

As per the District Administration order dated 04.07.2019 "Jal Shakti Abhiyan-A water conservation campaign" and specific directions of DTCP, an Enforcement drive was conducted on 26.07.2019 under the same to check availability & functionality of Rain water Harvesting sites in Licensed colonies. 56 numbers of colonies were inspected for the same. During the inspection, it was found that your colony's Rain water harvesting systems are non/partially functional.

So, you are directed to make it fully functional within 7 working days and send compliance report to this office with photographs of the rectification done. This may be treated as **MOST URGENT**.

Endst No. **8040-8043**

*[Signature]*  
District Town Planner,  
Gurugram.

Dated: **01-08-2019**

A copy is forwarded to the following for information and further necessary action please:-

- 1. Director General, Town & Country Planning Haryana Chandigarh
- 2. Deputy Commissioner, Gurugram
- 3. Senior Town Planner, Gurugram
- 4. District Town Planner (Enf.), Gurugram

*[Signature]*  
District Town Planner,  
Gurugram.

District Town Planner, Gurugram (Planning)  
DEPARTMENT OF TOWN AND COUNTRY PLANNING  
HUDA Office Complex, Sector-14, Gurugram, Tel No.:0124-2320573  
E-mail: dtp5.gurugram.tcp@gmail.com

Memo No.DTP (G)/2019/  
Dated: **30.8.19/01-08-2019**

To: Deputy Commissioner,  
Gurugram

Subject:- Compliance Report of Enforcement Drive under "Jal Shakti Abhiyan"

Ref:- Jal Shakti Abhiyan Govt. order dated 04.07.2019, Memo No. DT(G)/2019/7766 dated. 25/07/2019

As per the subject cited above an Enforcement drive was conducted on 26.07.2019 under "Jal Shakti Abhiyan" by this office to check the provision & functionality of Rain water harvesting sites in Licensed colonies. For this inspection, 9 numbers of teams were constituted involving JEs of MCG, JEs of HSPV and Plumbing students of IITL. The compliance report of the same is attached herewith for your kind perusal.

It is pertinent to mention here that 57 numbers of colonies were inspected for the same and it was found that 74 RWH sites are non-functional in 15 colonies and 24 colonies do not have properly functional Rain water harvesting system. A notice has been issued to the said colonies for making RWH sites functional within 7 days (Copy Enclosed).

DA/As above

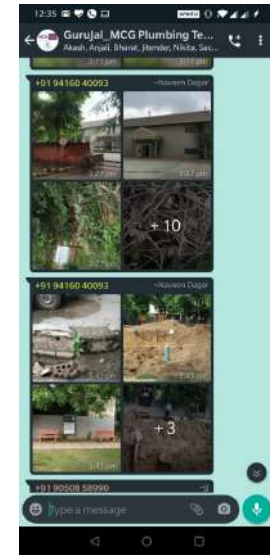
*[Signature]*  
District Town Planner,  
Gurugram

Endst No. **8082-86** Dated:- **02-08-2019**

A copy is forwarded to the following for information and further necessary action please:-

- 1. Director, Town & Country Planning, Chandigarh, Haryana
- 2. Commissioner MCG, Gurugram
- 3. Administrator, HSPV, Gurugram
- 4. Senior Town Planner, Gurugram
- 5. District Town Planner (Enf.), Gurugram

*[Signature]*  
District Town Planner,  
Gurugram



**WATER PROOFING**  
FIX THE LEAK WEEK

**Collective Enforcement**





**WATER  
PROOFING**  
FIX THE LEAK WEEK

## Rainwater Harvesting Systems



Near YS Gupta JC House Residence,  
Ward No.6, Sec.14, Gurugram



Shiv Murti Park, Pataudi Block



Moti Dungri Park, Pataudi Block



H. No. 1203, Sector 21, Gurugram



**Total No. of RWHs = 865**

**Potential to recharge water = 498 Million litres**

**Water enough for 16,053 people / year**

MCG RWHs

**413**

MC Sohna RWHs

**31**

MC Pataudi RWHs

**6**

MC Hailey Mandi RWHs

**8**

MC Farukhnagar RWHs

**11**

Rural RWHs

**504**

# TARGETS



**Convincing individual households to convert borewells into recharge wells**

**Mapping falling and rising water tables from live data monitoring**

**Capacity building of construction agencies to choose suitable design for construction of RWHs**

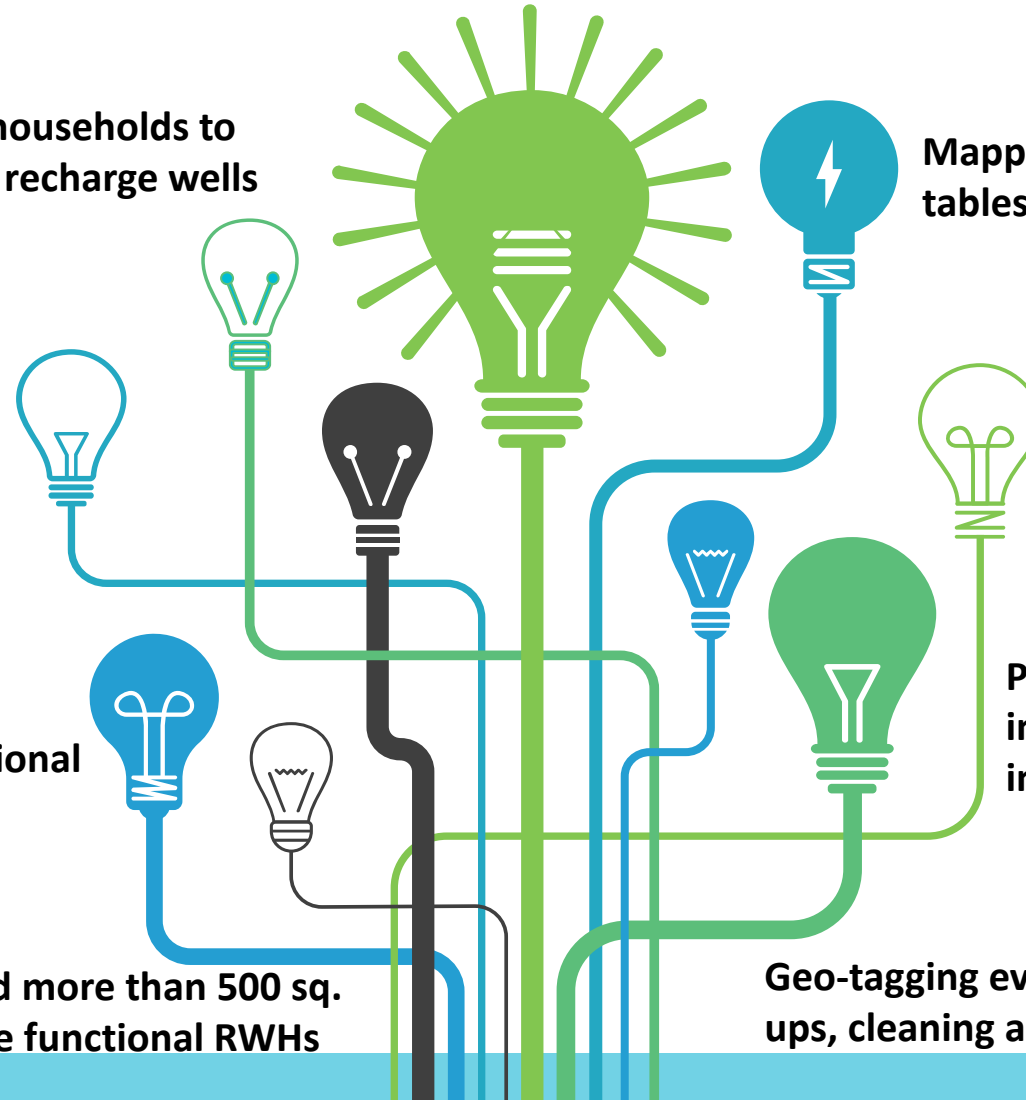
**Converting abandoned tube-wells into recharge wells**

**Every GHSs, Institutions and Industries should have functional RWHs**

**Providing open source and free of cost information, design and consultation for installation of RWHs**

**Every household more than 500 sq. mtr. should have functional RWHs**

**Geo-tagging every RWHs for annual follow-ups, cleaning and mapping**



# Success Parameters

01

Impact Analysis

02

Policy Environment

03

Technologies

04

Enforcement



Constant and Live Review



**THANK YOU**