

Jal Sanchayan

android Mobile App for
Water Conservation and
Recharge
(available in English and Hindi)



<https://play.google.com/store/apps/details?id=com.save.india.water.wcr.wcr&hl=en>

gcrs.apps@gmail.com

Jal Sanchayan

Central Groundwater Authority
Ministry of Water Resources,
River Development & Ganga
Rejuvenation
Government of India

Sushri Uma Bharti
Minister,
Water Resources,
River Development and
Ganga Rejuvenation

Dr. Sanjeev Kumar
Balyan
MoS, Water Resources, River Development
& Ganga Rejuvenation

Shri Vijay Goel

Beta Version

हिंदी ENGLISH

जल संचयन

Developed and Maintained by Geo Climate Risk Solutions Pvt. Ltd.

Water Conservation and Recharge



GET CURRENT GROUND WATER LEVEL AND RAINFALL



RAIN WATER HARVESTING CALCULATOR



VILLAGE LEVEL WATER BUDGETING



SCHEMATIC DESIGN



MAINTENANCE



BENEFITS



MY LOCATION (REQUIRES INTERNET)



CONTACT US

An initiative by Central Ground Water Authority (CGWA)



जल क्रांति अभियान



Pilot Mapping of Aquifers in India

Beta Version

Disclaimer: (1)Water level is picked up from nearest monitoring station of CGWB, local conditions may vary. (2)Average annual rainfall has been considered. (3)Cost of recharge structures are indicative and may vary depending on site conditions.

वर्षा जल स्तर/ वर्षा जल स्तर

वर्षा जल परिगणक (कैलक्युलेटर)

ग्राम/ प्रतिरूप/ बनावट की रूपरेखा

रखरखाव

वर्षा जल संग्रहण कर्यों करें

स्थानीय नक्शा/ भौगोलिक स्थिति

सम्पर्क करें

Central Ground Water Authority (CGWA)

अभियान

Mapping of Aquifers in India

Water level is picked up from nearest monitoring station of CGWB, local conditions may vary. (2)Average annual rainfall has been considered. (3)Cost of recharge structures are indicative and may vary depending on site conditions.

- Jal Sanchayan is a user-friendly android mobile application comprises all components of rainwater harvesting in single platform
- It allows user to know from location conditions and interactive module enable user to calculate potential rainwater to be harvested in user's location
- In addition, it also provide schematic designs, benefits and operation and maintenance aspects
- It also provide contact information of authorities, agencies, technical institutions and grass root community organizations working the water sector

Water Conservation and Recharge

My Location

 CURRENT GROUND WATER LEVEL IS 8.15 (METERS), RAINFALL IS 609.9 (MM) AND AQUIFER IS ALLUVIUM

 RAIN WATER HARVESTING CALCULATOR

 VILLAGE LEVEL WATER BUDGETING

 SCHEMATIC DESIGN

 MAINTENANCE

 BENEFITS

 MY LOCATION (REQUIRES INTERNET)

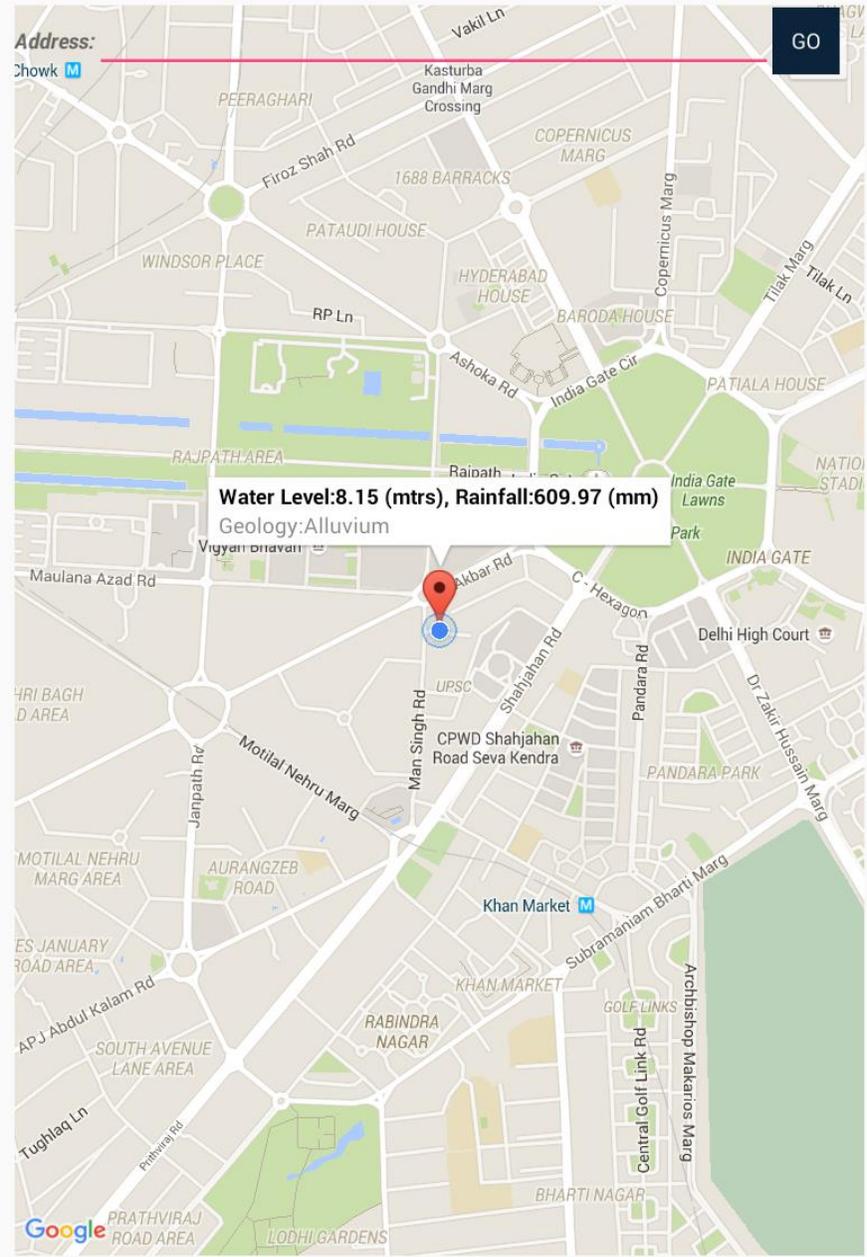
 CONTACT US

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 जल क्रांति अभियान

 Pilot Mapping of Aquifers in India
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- It provides location based ground water levels, annual average rainfall and Aquifer information
- It also give an opportunity to user to find out above information for any desired location

Rain Water Harvesting Calculator

Location Condition
Ground Water Level :8.15 meters
Aquifer :Alluvium
Rainfall :609.97mm
Site Id :W283645077133001
Survey Date :01-11-2015

Catchment

Surface Type : Roof Catchment ▾
Sub Type : Aluminium ▾
Category Type : ▾
Area : Urban ▾



Area(Square meters) :

This calculator shows potential rain water harvesting for current location. You can calculate the rain water harvesting for any other location you need by entering the address in below field :

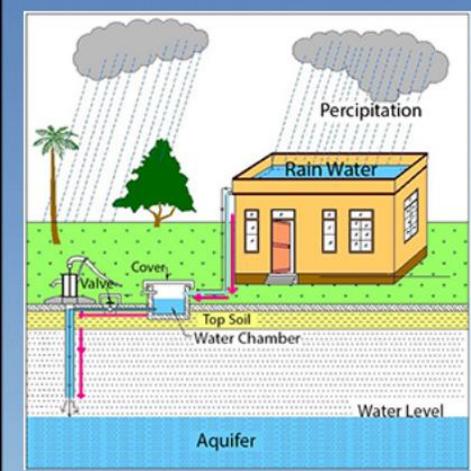
CALCULATE **BACK**

Annual Rainwater Harvesting Potential = 109,000 (litres) or 109 (cubic meters)
Cost (Rupees): Approximate cost to build water harvesting structure at the site ranges from 26,263 to 32,983
Feasible Structure Type : Roof top Rain water harvesting through recharge well, handpumps, dugwells, tubewells.

- Rain water harvesting calculator navigate user to estimate the rain water harvesting potential at given location.
- User can estimate run off for various roofs surface and ground surfaces
- It also suggest user on feasible rain water harvesting structures and approximate cost to built

Sample Designs

Category : Hand Pump



- Abandoned/ dried hand pumps can be used for recharging roof top rainwater to underlying aquifers.
- Filtration chamber may be constructed so that water can be made free from silt before water enters into the hand pump.
- It is suitable for large buildings preferably having the roof area upto 200 sq.m from where rainwater can be diverted and recharged.

BACK

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- It comprises information of schematic rain water harvesting models and its components along with suitability of given location.

Water Conservation and Recharge

i) Annual availability of water in the village:

Formula to be used Q=CRA

Sl. No.	Particular	Unit	Quantity
(1)	(2)	(3)	(4)
1	Catchment area (A)	Ha.	790
2	Average Rainfall (I)	m	0.9
3	Co efficient of Runoff (C)	0.4	0.4
4	Total runoff Water (Q) =790*0.9*0.40	Ha.-M	284.4
5	Water can be harvested =75 % of Q	Ha.-M	213.3

ii) Water Requirement

A. Water requirement for Domestic purpose

Sl. No.	Population	Expected Population (after 10 years)	Daily Water requirement for individuals (Ltr)	Annual Water Requirements in Cum (3x4)x365days/1000
(1)	(2)	(3)	(4)	(5)
1	825	908	45	14,914

B. Water requirement by livestock

Sl. No.	Type of Animal	Total Animal No.	Daily Water requirement per animal	Annual Water Requirements in Cum (3x4)x365days/1000
(1)	(2)	(3)	(4)	(5)
1	Cow	65	135	3202.875
2	Buffalo	95	155	5374.625
3	Bullocks	106	135	5223.15
4	Calf	65	70	1660.75
5	Goat	110	8	321.2

- It provides platform to plan water resources, conservation and recharge at village level.

Maintenance

1) Clean rainwater harvesting system prior to onset of monsoon.



2) Do not store chemicals, rusting iron, manure or detergent on the roof.



3) Clean roof top to remove dust, dirt, and leaves etc. especially prior to the monsoons.



4) Provision of first rain separator should be made to flush off first rain.

5) Check and clean the downpipes and the tank inlet, and filter.



6) Clean the filters by washing thoroughly before monsoon.

The application listed out the features of maintenance and operation of rainwater harvesting systems and its surroundings.

1) Fresh drinking water for all.



2) Maintaining ecological balance.



- 3) Helps to conserve and augment the storage of ground water aquifers, thereby improving the ground water table.
- 4) Recharging the ground water aquifer helps arrest the saline water intrusion.
- 5) Continuous recharge of ground water using rain water helps

- The application enumerate the benefits of water conservation and ground water recharge.

Select your contact type Contact us

- CENTRAL GOVERNMENT
- STATE GOVERNMENT
- PSUS
- NGOS
- PRIVATE CONSULTANCIES
- INTERNATIONAL ORGANIZATIONS/UN

An initiative by Central Ground Water Authority (CGWA)

State : Delhi

STATE UNIT OFFICE
 16/11 Jamngar House,
 Mansingh Road,
 NEW DELHI- 110011
 NCT of DELHI
 PH.: 011-3074355
 FAX: 011-3386743

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It provides information of full contact details of central and state government departments.

It also covers contact details of technical agencies, non government agencies working in water sector, in particular groundwater and rainwater harvesting