

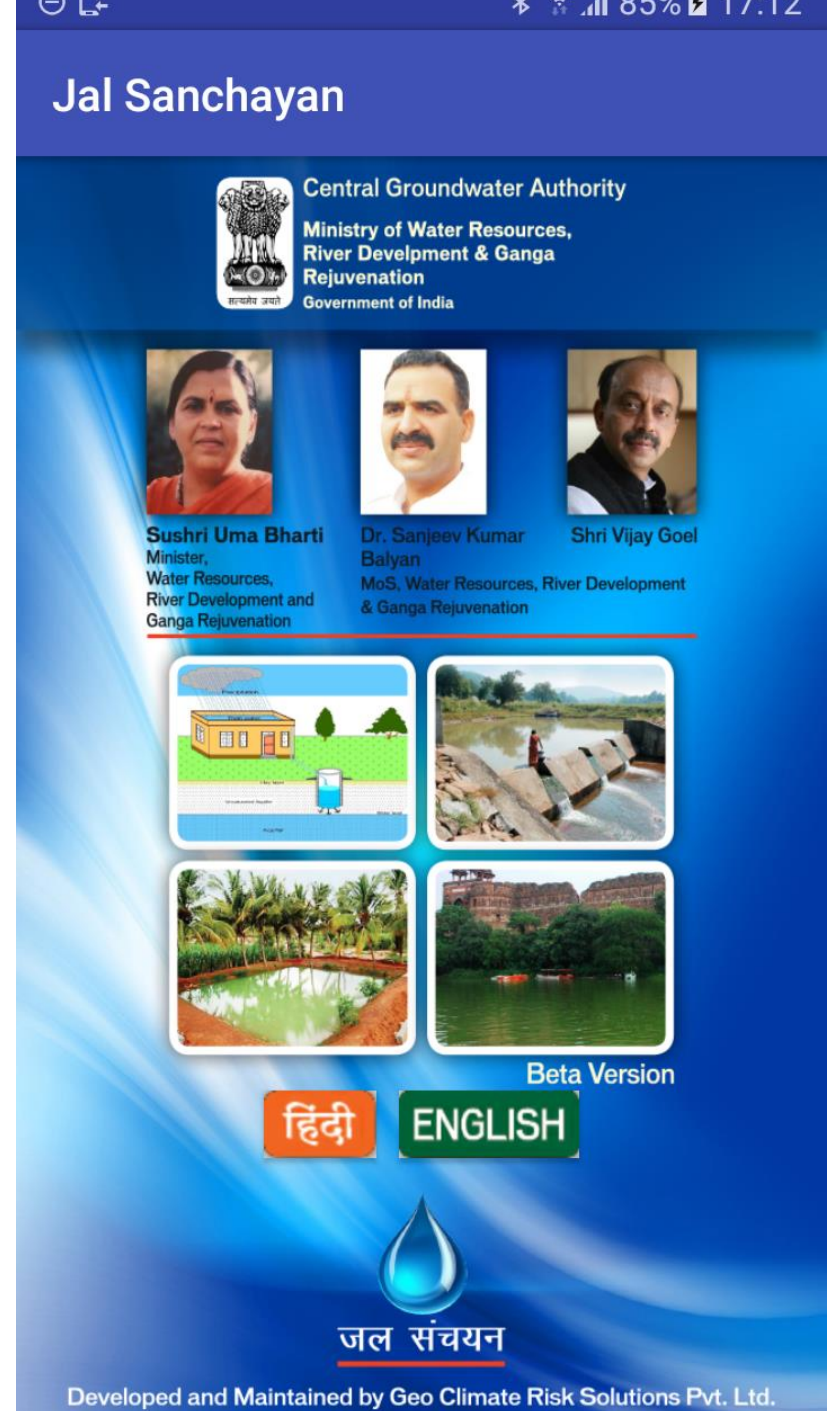
Jal Sanchayan

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





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.

- 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


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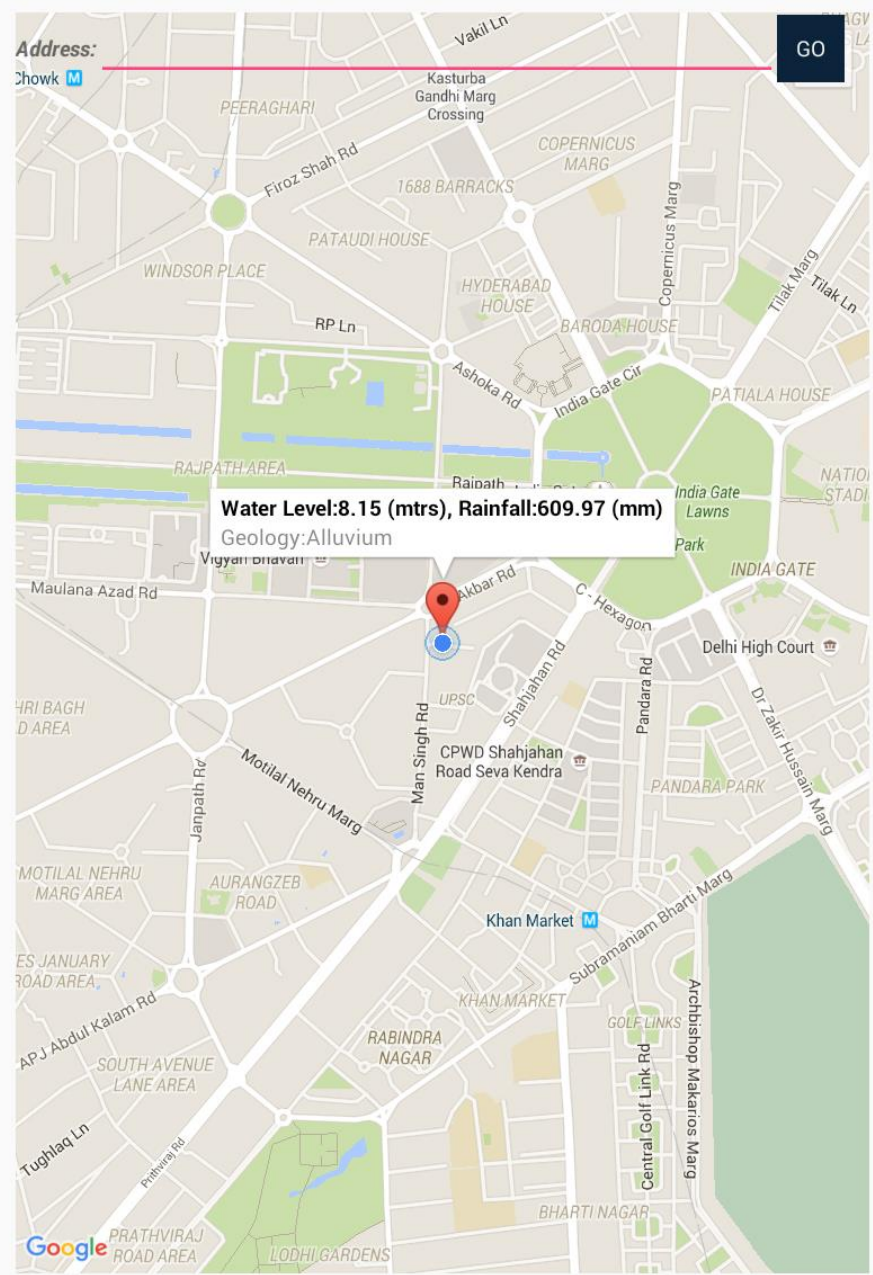
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- It provides location based ground water levels, annual average rainfall and Aquifer information
- It also give an opportunity to user to find out above information for any desired location

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) :

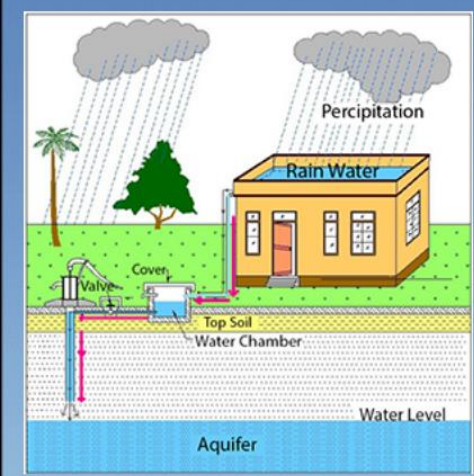
This calculator shows potential rain water harvesting for current location. You can calculate the rain water harvesting for any other location you need by entering the address in below field :

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

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

An initiative by Central Ground Water Authority (CGWA)



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

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) = $790 \times 0.9 \times 0.40$	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.

Benefits

1) Fresh drinking water for all.



2) Maintaining ecological balance.

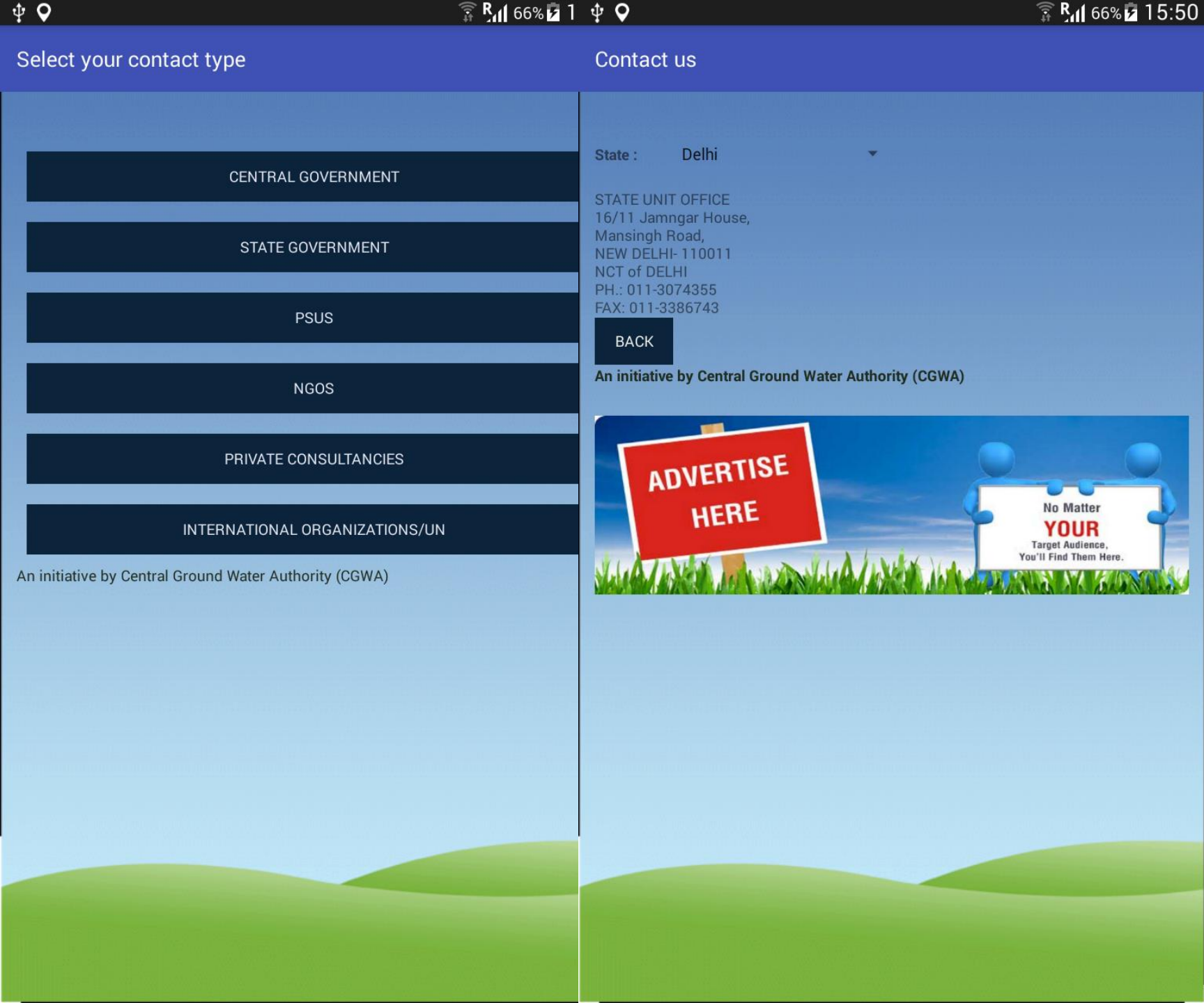


3) Helps to conserve and augment the storage of ground water aquifers, thereby improving the ground water table.

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.



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