



WATER CONSERVATION POLICY

With reports of measures adopted



Bapuji Educational Association®

COLLEGE OF DENTAL SCIENCES

(Recognised by the Dental Council of India, New Delhi)
(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, Bengaluru)



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WATER CONSERVATION POLICY

It is just hard to comprehend living without water because it is absolutely essential for life. Only 4% of the world's potable water resources, which are also quickly drying out, are in India, which has 16% of the world's population. From the current level of 40 billion cubic metres (bcm) to about 220 bcm in 2025, the demand for water is anticipated to increase. The only cause of the exploitation and degradation of this valuable natural resource is the unethical and uneconomical use of water by humans. Water quality and quantity are therefore under threat and need to be protected. Each person has a moral obligation to contribute to water conservation and revitalization, as does every member of the community.

Our institute has worked to assure water harvesting and conservation in this direction. The motto of the campaign is "Be Water Smart, Every Drop Counts," and it is based on the 3Rs: Reduce, Reuse, and Recharge.

Water conservation measures adopted in the institution:

1. Rain water harvesting
2. Bore well /open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in campus

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WATER CONSERVATION MEASURES ADOPTED IN THE INSTITUTION:

REPORT. RAIN WATER HARVESTING

Technology that collects and stores rainwater for human use is known as a rainwater harvesting system, also known as a rainwater collecting system or a rainwater catchment system. The water that has been stored is used in gardening. In addition to natural percolation tanks, concrete storage tanks have also been constructed, and rainwater has been kept after proper filtering by being avoided paving the open spaces with concrete roads. Rainwater collection during rainy seasons not only helps to conserve water from conventional sources but also saves energy and lowers the cost of water distribution and transportation.

Photo 1 showing Rain water harvesting tank with motor to uplift the collected water



Incharge:

Administrative Manager
1 person =Maintenance department,
1 person =support staff.

Frequency of inspection:

Every 15 days once

Register maintained:

Yes(from2021-22)

Future plan: sensor based motor pump

Photo 1 showing rain water harvesting tank


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Photos 2 showing Roof top rainwater collection



Photo 3 showing Concealed pipes from roof top to rainwater harvesting tank



The possibility for harvesting rainwater has also been calculated in order to reduce groundwater abstraction, preserve the subsurface water table, and regulate the hardness of the water delivered to the university. According to the plan, roof top water will be collected in underground tanks or sump pumps, while water collected from paved and unpaved areas will go through a grease cum silt trap and clean water will either be used immediately or will be used to recharge the campus's existing bore wells.

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REPORT OF BOREWELL /OPEN WELL RECHARGE

2- BOREWELL/OPEN WELL RECHARGE

Institution has a borewell and municipal water connection for water sources. The essential elements of a groundwater recharge system are:

Catchment area of choice: The building's rooftop serves as the rainwater gathering area and recharging space. Since the water is being recharged, rainwater collected is filtered before it is fed to the borewell area . It is made sure that the catchment is free of any contaminants and chemicals.

Conveyance: Rainwater is conveyed through downpipes through filters from rooftops. The water collected in a 6000-liter storage tank used for rainwater gathering is utilised for gardening and washing college buses.

Photo 4 shows bore well recharge



Incharge:

Administrative Manager
1 person =Maintenance department,
1 person =support staff.

Frequency of inspection: once
in 3 months general - if non-
rainy day

Everytime after the rainy day

Register maintained: Yes(from
2021-22)

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REPORT OF CONSTRUCTION OF TANKS AND BUNDS

3 CONSTRUCTIONS OF TANKS AND BUNDS

There is an need for reform in the water management system and the rebirth of traditional ways as the water situation worsens. The organisation constructed a rainwater storage tank as part of a rebirth of traditional wisdom so that rainwater could be collected and used as needed. Over head tanks on all the three buildings and underground tank has been constructed for proper functioning of the institution.

Incharge:

Administrative Manager
1 person = Supervisor, 1
person = support staff
with plumber skill.

**Frequency of
inspection: 20**

days once

Register maintained:

Yes (from 2021-22)

Photo 5 shows Over head tanks



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REPORT OF WASTE WATER RECYCLING

4 WASTE WATER RECYCLING

An average drinking Reverse Osmosis (RO) purifier wastes about 3 litres of water for every 1 litre of filtered water. That means that only 25% of the water is cleaned, while the remaining 75% is lost. Depending on the type of RO purifier being used, different amounts of water are wasted.

All departments in our institution have been installed with RO purifier. The amount of waste water generated will be collected in a container and reused for watering the plants, cleaning the washroom, toilets and mopping the floor.

Photo 6 shows Waste water collected from RO purifier

Incharge:

Administrative Manager

1 person = Supervisor, 1 person

= support staff with plumber skill.

Frequency of inspection: *Three months once*

Register maintained: Yes (from 2021-22)



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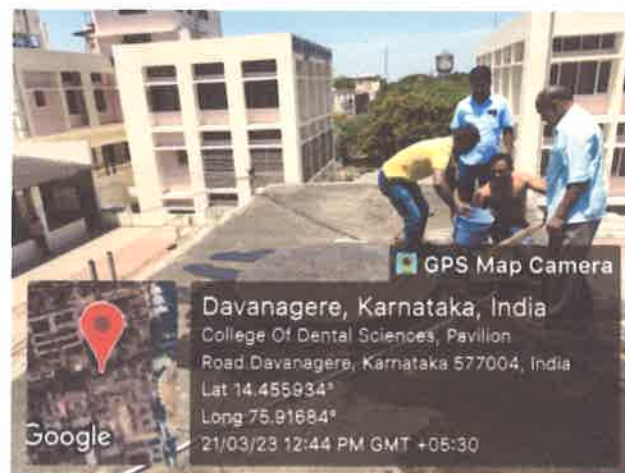
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REPORT ON MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN CAMPUS

The maintenance of water conservation facilities are carried out regularly on timely basis. Mr Bharmana Gowda is a supervisor assigned by Manager, supervises the maintenance of water bodies of our college. Teams are formed by supervisor who will clean the tanks every 20 days on rotation basis of every tank. Cleanliness of water bodies is looked over by on regular basis by supervisor twice a week and randomly inspected by the manager. Annual maintenance contract (AMC) of reverse osmosis drinking water of all departments is given to NCR water life technology which maintains the drinking water facilities on annual basis.

Photo 7 shows Cleaning of the Over head tank



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Director
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