



CRITERION-7  
AQAR  
2020-2021

# Water Conservation Practices

## Best Practices Implemented for Water Conservation

### 7.1.4.1 Water Flow Meter

One number of water flow meter is installed near gate# 3 to quantify the water used. Regular monitoring of water consumption data and recording of data is being carried out.



**Water flow meter installed in the campus**

### 7.1.4.2. Dual water piping system for wash rooms

The toilets and rest rooms in all the blocks of the college campus have been provided with dual water piping system. The dual water piping system consists of raw water piping network and STP treated final water piping network.

The STP treated final water is used for flushing in the toilets.

This method of processing the sewage water to convert as treated water, and utilizing in all possible areas would have resulted in substantial amount of water savings.



**Dual water piping system installed in the campus**

#### **7.1.4.3. Low flow taps**

Low flow taps perform better with less water usage when compared to regular taps. These taps compensate the water pressure and give defined water flow rate, therefore less water wastage & more savings on water bills. The advantages of low flow taps are as follows:

- Saves water
- Reduced water bill
- Optimized flow rate
- Different flow patterns (shower/Foam)
- Annual Savings upto 10,000 litres/Year/tap



**Low flow taps installed in the college**

#### **7.1.4.4. Water less urinals**

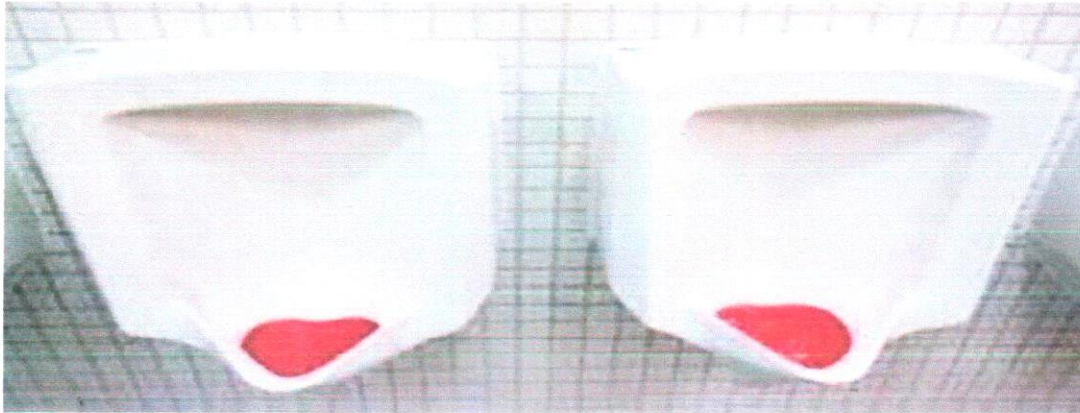
Traditional water based urinals are one of the major water consumer in any facility. Apart from the water usage, the cost for handling raw water to the urinals is an added expenditure. Also, maintaining the water taps and flushes for urinals will add to maintenance cost as well.

To overcome these challenges and as part of water conservation measure, the management has initiated the water less urinals implementation in campus.

The advantages of water less urinals are as follows:

- Saves water
- Reduces water bill
- Reduces maintenance cost
- Reduces water handling cost (electricity cost for pumping raw water)
- Reduces usage of chemicals
- Improves overall bathroom hygiene

  
Principal  
NEW HORIZON COLLEGE  
Ring Road, Bellandur Post,  
Bangalore - 560 103.



**Water less urinals installed in the college**

#### **7.1.4.5. Regular testing of water quality**

Testing water quality on a regular basis is an important part of maintaining a safe and reliable source. The test result allows to properly addressing the specific problems of a water supply. This will help ensure that the water source is being properly protected from potential contamination, and that appropriate treatment is selected and operating properly.

It is important to test the suitability of water quality for its intended use, whether it be livestock watering, chemical spraying, or drinking water. This will assist in making informed decisions about your water and how you use it. The sample water test report is given in figure 4.20. Water testing is done by college, on regular basis to ensure quality of water used for drinking and other purposes.

Regular testing is important to :

- Identify existing problems
- Ensure water is suitable for the intended use, especially if used for drinking by humans and animals
- Track changes over time
- Determine the effectiveness of a treatment system

**AQUACHEK**  
DRINKING WATER TESTING FACILITY  
(AN ISO 9001:2015 CERTIFIED LABORATORY)

**TEST REPORT**

Report No: A/WORC/TR/11/01/22  
Sample No./Date: 24/11/2021  
Analysis Date: 24/11/2021  
Date of Report Issue: 30/11/2021

Sample Code No: 11/21/22  
Sample Description: Drinking Water  
Your Ref No./Zone: 502  
Capacity & Condition: 500ML BOTTLES  
Brand Name, if any: Aegisward RCI Plant  
Sample From: Chattrapati Shivaji Road, 502

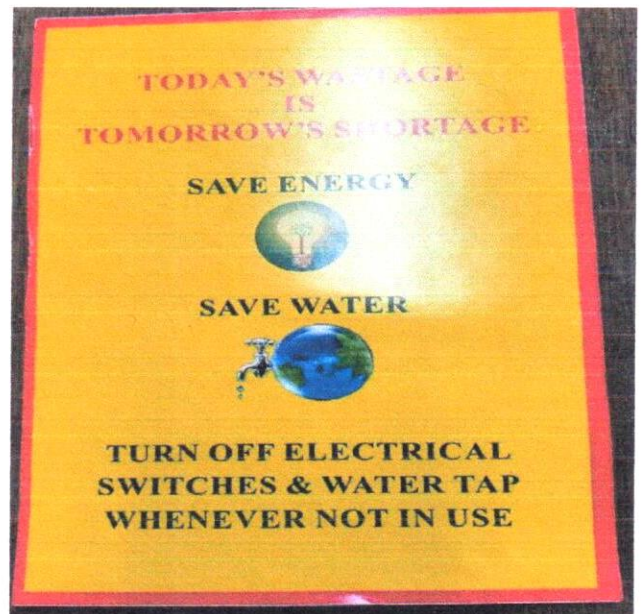
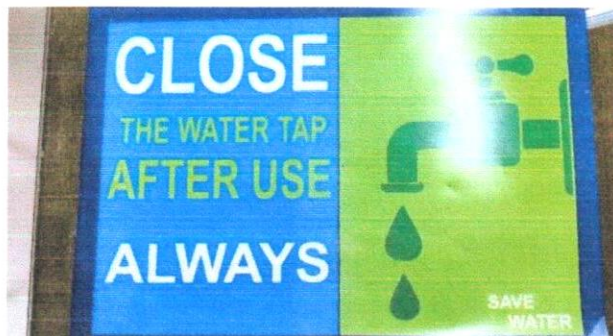
Issued To:  
New Horizon College, Atankolli

Sl. No.	PARAMETER TESTED	UNITS	RESULT	IS: 10900-2012 Drinking water specification (Second Revision)		TEST METHOD
				Requirement (Acceptable Limit)	Agreeable	
<b>PHYSICO-CHEMICAL</b>						
1	Colour	-	Agreeable	Agreeable		
2	Taste	-	Agreeable	Agreeable		
3	Odour	-	Agreeable	Agreeable		
4	pH value	NTU	8.1	6.5-8.5	1.0	IS: 10241 Part 100-1000
5	Total Hardness	mg/l	7.25	500	500	IS: 10241 Part 100-1000
6	Total Hardness as CaCO <sub>3</sub>	mg/l	36	500	500	IS: 10241 Part 100-1000
7	Calcium as Ca	mg/l	33	75	75	IS: 10241 Part 100-1000
8	Magnesium as Mg	mg/l	3.25	75	75	IS: 10241 Part 100-1000
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	12	200	200	IS: 10241 Part 100-1000
10	Chloride as Cl	mg/l	2.4	250	250	IS: 10241 Part 100-1000
11	Total Iron as Fe	mg/l	0.001-0.005	0.3	0.3	IS: 10241 Part 100-1000
12	Nitrate as N	mg/l	0.01-0.50	50	50	IS: 10241 Part 100-1000
13	Fluoride as F	mg/l	0.01-0.10	1.0	1.0	IS: 10241 Part 100-1000
<b>BACTERIOLOGICAL</b>						
14	Coliforms (E. coli)	MPN/100ml	0	0	0	IS: 10241 Part 100-1000
15	Total Coliforms (E. coli)	MPN/100ml	0	0	0	IS: 10241 Part 100-1000
16	Coliforms in 100 ml of sample	MPN/100ml	0	0	0	IS: 10241 Part 100-1000

Sample water testing report

**7.1.4.6. Other measures implemented for water conservation**

- Regular checking and maintenance of pipelines are done to control water wastage
- Water conservation awareness campaigns are organized, dedicated staff members have been deputed for this activity and support of trust members is also extended
- Usage of sign boards in all the wash rooms are posted to create awareness for water conservation.



Posters to conserve water

*[Signature]*  
Principal  
NEW HORIZON COLLEGE  
Ring Road, Bellandur  
Bangalore - 560 10



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# **E-mail Correspondence**



Dr. R. BODHISATVAN <principalnhc.edu@gmail.com>

## Plumbing Work - Shaheed Hemu Kalani Block - NHCM

1 message

**Dr. R. Bodhisatvan** <principalnhc.edu@gmail.com>  
To: maintenance.nhce@gmail.com

Wed, Dec 16, 2020 at 12:12 PM

1. Ground Floor Passage = Water is leaking from the Water Coolar, and needs to be repaired.

Regards,  
Administrator,  
New Horizon College,  
Marathahalli, Bangalore



Dr. R. BODHISATVAN <principalnhc.edu@gmail.com>

## Replacement of Drinking Water Cooler in ground floor, SHK Block

1 message

**Dr. R. Bodhisatvan** <principalnhc.edu@gmail.com>  
To: maintenance.nhce@gmail.com

Tue, Sep 29, 2020 at 4:35 PM

Kindly arrange to Replace with New Drinking Water Cooler in Ground Floor, SHK Block because old one is not working properly and inside corners rust has mounted it is not good for drinking and also it is looking so dirty inside.

Regards,  
Administrator,  
New Horizon College,  
Marathahalli, Bangalore