



## OFFICE OF THE PRINCIPAL NORTH KAMRUP COLLEGE, BAGHMARA

**CRITERION VII:  
INSTITUTIONAL  
VALUES AND  
BEST PRACTICES**

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### 7.1.2: Circular and report of activities for the implementation of the initiatives document

#### LED Light:

An LED Light is an electrical light that produces light using light emitting diodes. LED Lamps are significantly more energy efficient than equivalent incandescent lamps and fluorescent lamps. To save energy, LED light is used in college building.





### Solar light:

Solar lights are entirely powered by green, renewable energy, so they have a lower environmental impact. Being grid-free, these lights are a more environmentally friendly choice. These lights are a clean and green energy source that can do not produce any harmful emission or pollutants. Traditional lighting that relies on electricity generated from fossil fuel, solar lights harness energy directly from sun, a clean and renewable resource. College authority use solar light in the college campus to decrease environmental pollution and save energy.





### **Degradable and non-degradable waste-bin:**

Degradable waste means waste that decomposes through chemical breakdown or microbiological activity. It includes materials such as food and vegetative wastes, but does not include materials like concrete, ash residue from the combustion of solid wastes and metals. Non-degradable wastes are those which cannot be decomposed or degraded by natural agents. They remain on earth for thousands of years without any degradation or decomposition. Therefore, the threat caused by them is also more dangerous. Now-a-days, plastic is used in everywhere and it is a big challenge for environment issues.

The authority of the college has taken a step to decompose wastes. There are two types of waste and dustbin install for each type of waste. The green dustbin is used for wet waste and blue dustbin is used for dry waste. In the blue-color dustbin, only recyclable waste is dumped. According to this point, green and blue colour dustbins are placed in various place of the college. Teacher unit of north kamrup college has donated degradable and non degradable waste bin to the college.





## **Water conservation:**

### Rain Water Harvesting

#### Introduction:

Water, the essential component for human body is the basic building block in maintaining the quality of life. It is essential for drinking as well as other domestic purposes. In most of the regions of the world groundwater is the main source of drinking water. But in recent years, because of the frequent change of climate or the environment, it has become necessary for us to search alternatives for water resources other than ground water resources in order to meet human needs. One of such resources is the surface water usage, of which rain water is considered as the main source that is more or less fresh and its collection is very easy and the cost is quite low. Rivers and canals, lakes and wetlands, ponds and drywells etc. all can catch and hold rainwater directly and its indirect source, the run-off storm water. The closed tanks can also be used to collect and store rain water that is free from contaminants to some extent.

Hence, keeping on mind the rising demand for water among the fast growing human population, there can be a great opportunity to harvest rainwater by any means in order to meet the necessity, probable scarcity thereby avoiding the destruction of the normal groundwater level. The advantage of rainwater harvesting is that, the unused or extra water which remains after use by the human settlements, can be sent down the aquifer to charge the groundwater level too.

Rainwater Harvesting is one of the best and eco-friendly methods to collect and store surface water without causing any disturbance to groundwater. It is a green practice and should be

encouraged in the form of Community Development Program. Storing of rain water or run-off storm water in a planned manner can protect the earth by preventing soil erosion and flood and recharge the aquifers to increase the groundwater. In urban areas, the increased population density at some particular places leads to uneven utilization of groundwater resulting to draught and drying up of river bed in areas with increasing domestic and industrial use of water. Therefore, use of rainwater may bring back the normal level of groundwater to some extent thereby maintaining the eco-balance. The wide and unplanned use of groundwater not only disturbs the normal water balance but also leads to contamination and in some areas it becomes completely unhealthy / unfit to use. Hence, collecting and storing rainwater or run-off storm water would balance the risks that would have been raised in these regions for the future generations to come. This approach is simple, environmentally benign as well as cost effective. The roof-top rain water can be collected in large tanks that are connected through pipes in a planned manner. It can further be purified using sand gravels filters depending upon the necessities.

#### **RAIN WATER HARVESTING SYSTEM OF NORTH KAMRUP COLLEGE:**

The campus of the college NKC, Baghmara is rich in biodiversity with 65 % area for open and plantation. The remaining 35% are built up area comprising of Academic Building, Library. Therefore, the green approach of rainwater harvesting within the campus will not only be advantageous for plantation purposes but can also be helpful for some domestic uses as well. Therefore, installation of such an approach within this campus is a very important initiative for not only today but in the days to come.

A closed tank has been connected to the roof-top through pipes for collection and harvesting of rain water and an outlet for its use in times of need. At present, the tank has been placed near faculty washroom. This water also used in other purpose.

#### **Objectives:**

- To maintain the eco-balance of groundwater by collecting and storing rainwater through the process of rainwater harvesting from roof-top run-offs
- To store rainwater for watering plants, washing purposes etc
- To save water and stop water wastages.

#### **Need for rain water harvesting:**

- Rising demand of water
- Variations of water availability proportions
- Responsibility towards protecting the nature and the environment
- Beneficial of collecting and storing it near places of use
- Quality of water supplies in urban areas

#### **Context of rainwater harvesting:**

- The tank is about 1000 L in volume
- Washing purposes requires huge quantity of water

The climate of the district Barpeta is moderate in winter. It is hot and humid from May to October varying the temperature from 13 degree Celsius to 39 degree Celsius. Monsoon starts in the district from April. The heaviest rainfall occurs during the month of May-June-July and August. The average rainfall is 250 cm to 350 cm.

The tank of Rain water harvesting system of North Kamrup College was donated by Alumni Association.

<b>প্রাক্তন ছাত্র-ছাত্রী সম্মিলনী</b>		
<b>নর্থ কামৰূপ কলেজ, বাঘমাৰা</b>		
সভাপতি	ডাকঘৰ- বাঘমাৰা বজাৰ, জিলা- বজালী (অসম), ৭৮১৩২৮	সম্পাদক
প্রসঙ্গ : .....		দিনাক : 16/05/17
<p>Today on May 16, 2017; I, on behalf of Alumni Association of North Kamrup College donate water tank and related accessories for Rain Water Harvesting to the North Kamrup College authority.</p>		
		
<p>Secretary Alumni Association North Kamrup College, Baghmara</p>		<p>Secretary ALUMNI Association North Kamrup College Date: .....</p>





### **Green campus initiative:**

To create a green campus North kamrup college has taken various step in the college campus and beyond the campus. Green society and NSS of the college has conducted various programme like World Environment Day, Plantation, Cleanness drive, gardening ,world bicycle day etc. North kamrup college observes No vehicle day on last Saturday of every month with the intention to reduce pollution.

### **Disabled- friendly, barrier free environment:**

Disability-Friendly often refers to the logistical aspects of accessibility. Accessible means a person with a disability is afforded the opportunity to acquire the same information, engage in the same interactions, and enjoy the same services as a person without a disability in an equally effective and equally integrated manner, with substantially equivalent ease of use. Following the disable friendly intension and institutional policy, NKC has built ramp-rails to provide access to students with disability. The college also has two wheel –chairs for urgent use. Authority of the college upload policy document for disabled friendly and barrier free environment.



## Ramp-rail:



**Barrier free environment:**



  
Co-ordinator  
IQAC  
North Kamrup College

  
Principal  
North Kamrup College  
Baghmara