



# **CMS COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)  
CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.

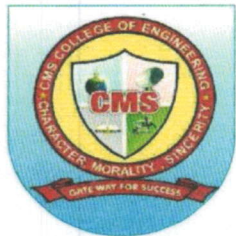
**Contact No: 98433 46065, 84899 10651.**

Website: [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com), [principal602@gmail.com](mailto:principal602@gmail.com)

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## **ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION**





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## DETAILS FOR SOLAR ENERGY

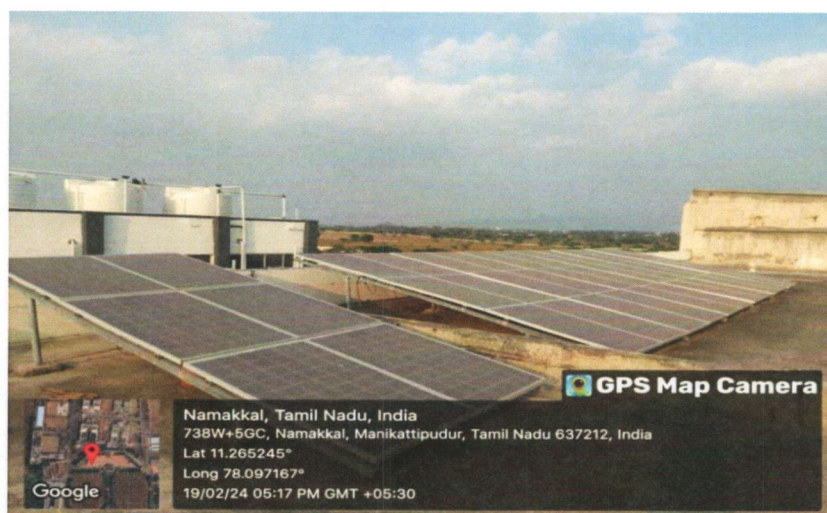
The institution has installed solar energy system on the rooftop of the Main Block of CMS College of Engineering. As a result, the current bill for the college is significantly reduced. The Institute has the practice in conversion of energy from sunlight into electricity, either directly using photo voltaic (PV) or indirectly using concentrated solar power. Solar panels use the photovoltaic effect to convert light into an electric current.

Our College Campus is uniquely suited to tackle the challenges associated with solar energy like,

**Research:** Used in researching and prototyping the next generation of solar cells and the need of students for research activities.


**Vocational Training:** We provide to conduct many orientation programs to students for pre-professional learning opportunities in design, production and oversight of on-campus solar farms.

**Storage:** The extra motivation to adopt storage to meet resilience and emergency preparedness goals and this storage can work in conjunction with adopting solar energy and to use of excess solar energy to charge electric vehicles, which serve as a source of energy storage.



### SOLAR PANEL



  
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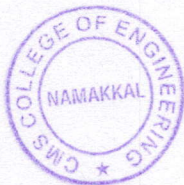
## USE OF LED BULBS/POWER EFFICIENT EQUIPMENT

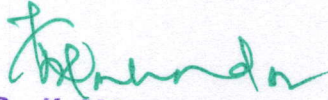
The Institution has LED Bulbs and Power Efficient Equipment which is widely covered all over our College Campus. LED lamps last much longer, and are more efficient than luminous lamps which are covered all over our campus. We use LED Bulbs/Down focus lamps mostly in our computer science laboratory for the uses of LEDs can give an efficient power reduction and visibility of our students to use computer systems.

LED lighting fixtures are more beneficial for saving energy and to conserving the environment. These lighting solutions help a lot in maintaining campus security, providing better quality light, improving student safety, and giving facility managers a sense of peace that comes with purchasing long-lasting products.

Natural light is the best and most important light to incorporate in the classroom. Natural sunlight provides physical and physiological benefits to both students and teachers alike. The truth is that LED lights are directional, which means that they are excellent for use as reading lights. The electric light bulb has been called the most important invention since man-made fire. The light bulb helped to establish social order after sundown, extended the workday well into the night, and allowed us to navigate and travel safely in the dark.

As solid-state light sources, LEDs have very long lifetimes and are generally very vigorous. The main reason that LEDs use so much less electricity than incandescent lighting is that they don't produce light in the same way. This process doesn't use a filament and creates little heat, instead relying on a property of semiconductors to generate light. LED tubes are much more efficient on your energy costs as well as your carbon footprint on the environment. There's nothing more sustainable than Energy.



  
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LED BULBS



  
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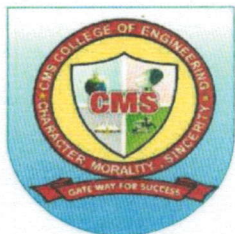
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## **WATER CONSERVATION**





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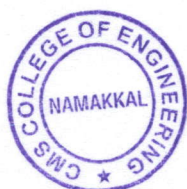
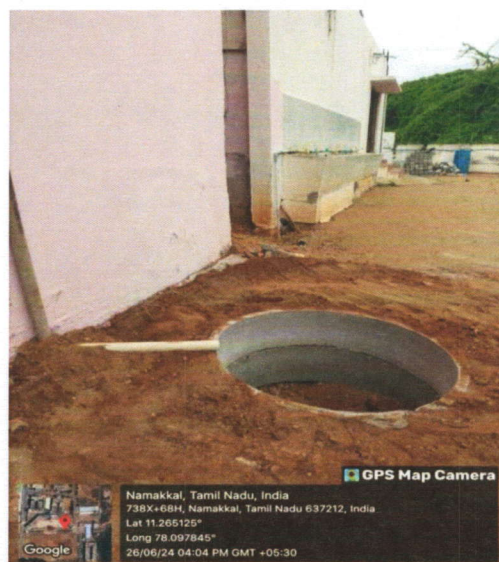
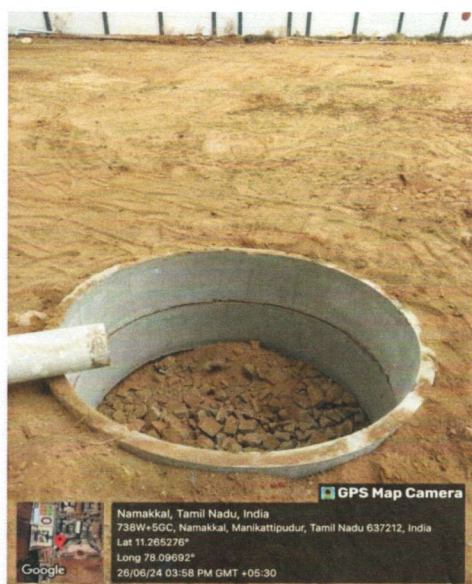
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## RAIN WATER CONVERSATION

Rainwater is collected from a roof surface and redirected to a deep pit (well, shaft, or borehole), so that it seeps down and restores the ground water. Rainwater harvesting is used in our college for storage and subsequent reuse. Its uses include watering gardens and for domestic usage with proper treatment. The harvested water can also be committed to longer-term storage and for ground water recharge.

### Objectives

- By rainwater harvesting from rooftop run-offs we can increase the reuse of groundwater by encapsulating and storing rainwater.
- To Reducing the loss of water by its running –off and Meeting the demands of increasing water.
- We store rainwater by using Rainwater Harvesting for the usage of college gardening and for domestic purposes.
- Using Rainwater Harvesting we can increase the quality of the water.



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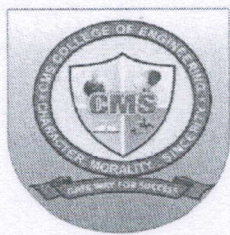
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## **MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE**





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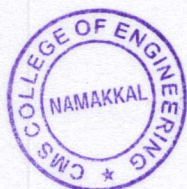
## DETAILS OF LARGE DUSTBIN (RED, BLUE, GREEN)

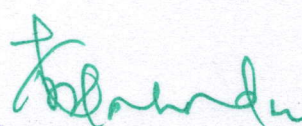
### RED DUSTBIN

It is placed in our college campus various corners to collect biomedical wastes, which are dangerous to deal with and consists of cotton dressings, tissues, sanitary napkins, etc., which are to be disposed of carefully. These specific trash cans are used to dispose of non-biodegradable rubbish. These dustbins are used for non biodegradable waste, which cannot be recycled. Because these wastes cannot be recycled, red trash cans are also known as rejecting trash cans. These wastes, if not handled and disposed of appropriately, might result in serious infections, treatment of these wastes is important. You can use these trash cans to dispose of both hazardous and non-hazardous material. Since the waste materials cannot be reprocessed, burning them is the only option to destroy these wastes.

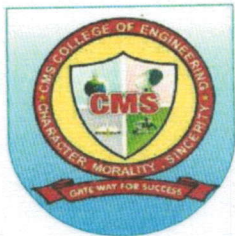
### BLUE DUSTBIN

These trash cans are used to handle dry, non-biodegradable rubbish. Dry garbage is disposed of away in the blue dustbin. Dry is used here to denote literally dry. This trashcan can only accept dry rubbish that does not include any moist waste. All plastic wrappers and other trash made of plastic should also be disposed of in the blue trash can since they are not biodegradable and cannot be broken down by microbes. Only the blue dustbin is intended for the disposal of all items, including glass, metals, damaged bulbs, lights, cans, milk packaging cans etc. All these materials are thrown separately because they are recyclable in nature and can be recycled while making new products which reduces the burden on the resources and also saves water and energy used in the manufacturing processes.



  
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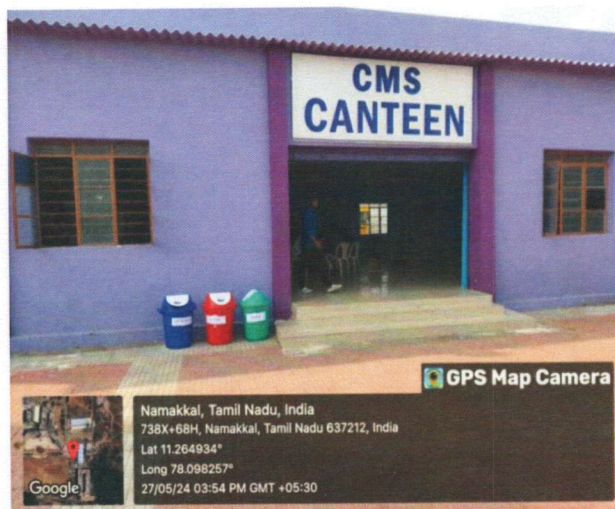
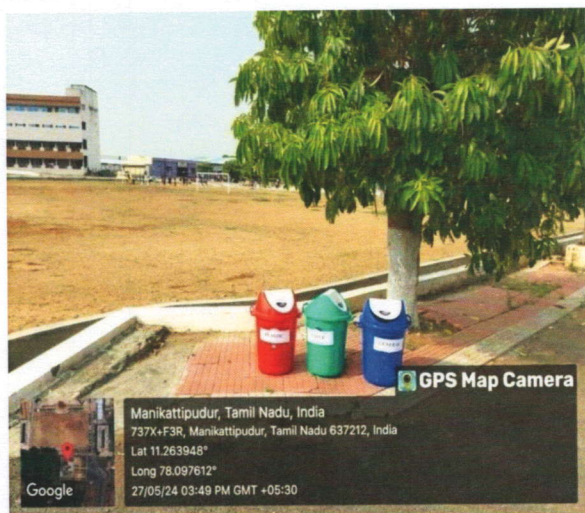
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## GREEN DUSTBIN

Wet and biodegradable garbage is treated using these types of trash cans. Green dustbins are sometimes referred to as organic bins. Fruits, vegetables, leftover food, garden garbage, rotten eggs, tea bags, etc are typically included in these wastes. In order to cultivate vegetables, organic waste is utilized as manure in the college gardens. This improves the soil's fertility. The optimum use of this trash prevents waste since it may be used to create compost.

### Note:

The wastes like computer accessories, etc. are dry in nature, which will be handed over to the e-waste collection centers.



  
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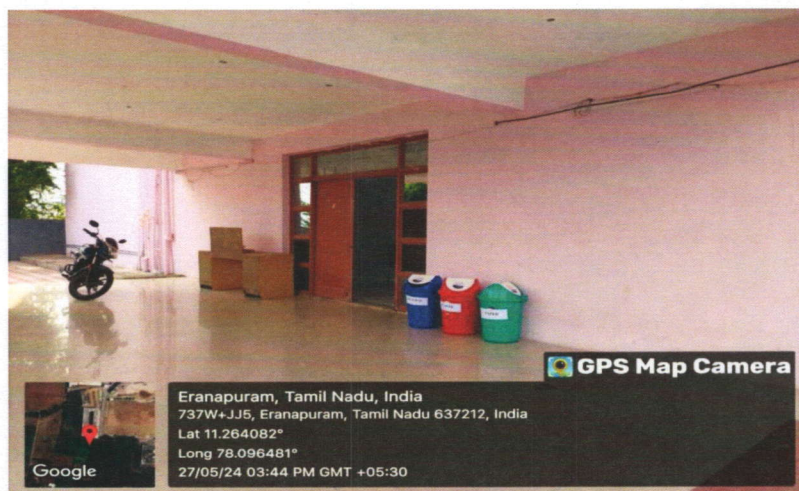
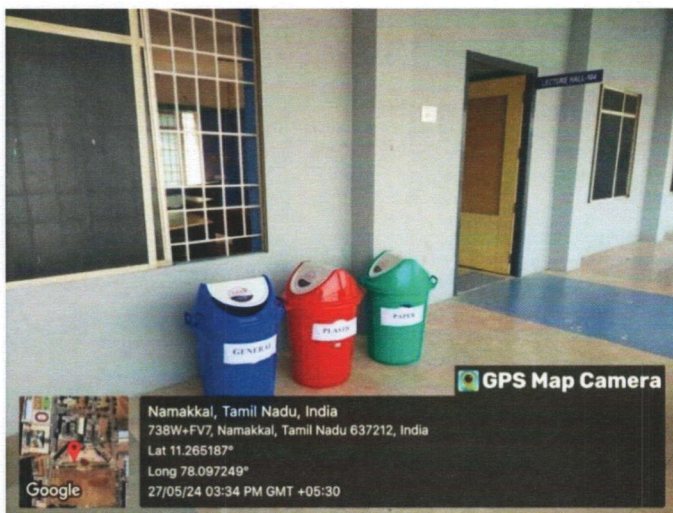
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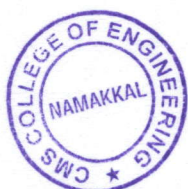
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GLIMPSE OF LARGE DUSTBIN IN AND AROUND THE COLLEGE CAMPUS



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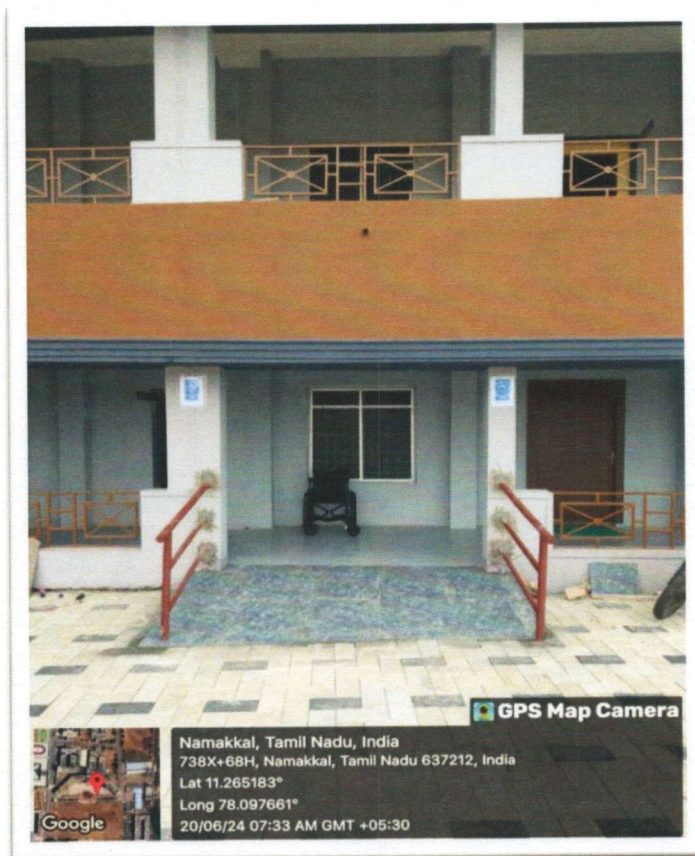
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## DETAILS OF REST ROOMS FOR DISABLED FRIENDLY / RAMP

We have proper wash rooms for Disabled Friendly students. Here we recommend the Ramp usage for students with physical impairments. Ramps permit wheelchair users, as well as people pushing strollers, carts, or other wheeled objects, to more easily access a building, or navigate between areas of different height. Wheelchair ramps make it easier for users to get up small flights of steps, past raised landings etc all while minimizing the risk of accidents and injuries.

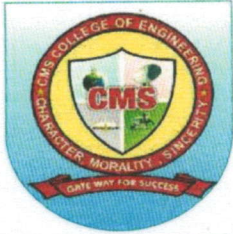


### RAMP FOR DISABLED PERSON



  
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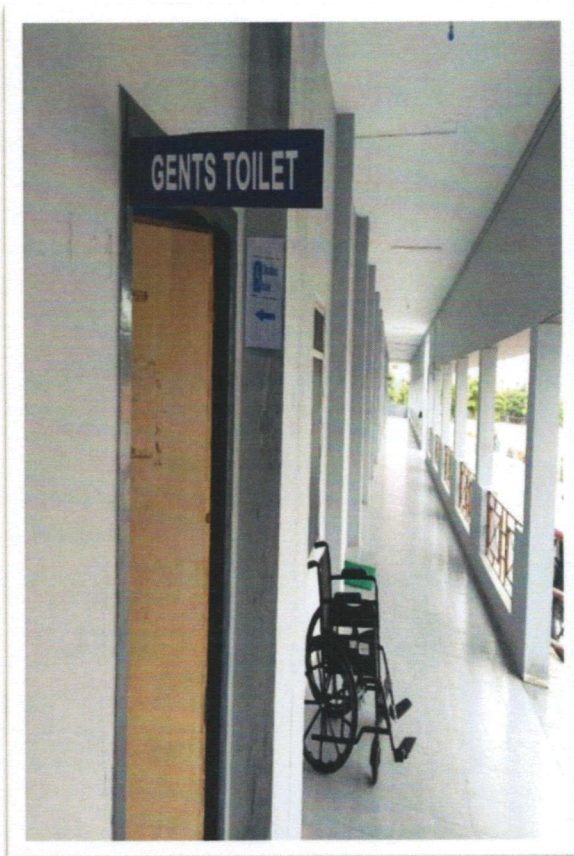
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## REST ROOM FACILITIES FOR DISABLED PERSON



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