

## ENVIRONMENT AUDIT REPORT



**HYM International Certifications Private Limited,**

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## Site Information

Name of College	Bhoj Reddy Engineering College for Women
Address	I.S Sadan, Crossroads, Vinaynagar, Saidabad, Hyderabad-500059, Telangana
Execution Partner	HYM International Certifications Pvt Ltd
Communication Address	G03, Ground floor, West Block, I.S Sadan, Crossroads, Vinaynagar, Saidabad, Hyderabad-500059, Telangana
Date of Audit	24-01-2024
Year of Audit	2023-2024
Audit Participants	Teaching and Non-Teaching Staff
Total College Area	6.34 acres
Total Green Area	4 acres

## **Overview of Institute**

Bhoj Reddy Engineering College for Women is run by Sangam Laxmibai Vidyapeet, a registered voluntary social action group working since 1952 for empowerment of women and girls through education. The Vidyapeet has more than 60 years of experience in the field of education.

The College was established in 1997. It is managed by an executive committee consisting of persons along experience in the field of education. Within a short period, it has emerged as one of the premier engineering colleges in the state.

The College campus has the unique advantage of being located in the heart of the city and yet free from noise and dust pollution. With considerable open space and greenery spread over 6.5 acres of land, the campus provides an ideal ambience for the engineering education of girls.

All Class rooms are provided with LCD facilities for conducting lectures and presentations effectively. Tutorials are conducted regularly and, for this purpose, separate tutorial rooms are provided in each department. An open air theatre to accommodate more than 1200 is also available in the college campus. A full-fledged 'Ramdev Convention Center' with a capacity of 300 will be ready for the academic year 2012-13 for conducting curricular, co-curricular and extra-curricular activities.

### **List of courses offered by the institute:**

**Following are the list of courses offered by the institute:**

- ❖ Computer Science Engineering
- ❖ CSE (AI&ML)
- ❖ Information Technology
- ❖ Electronics and Communication Engineering
- ❖ Electrical and Electronics Engineering

## **Introduction**

Environment Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyses environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Environment audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings.

It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students' better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crisis.

On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO<sub>2</sub> from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

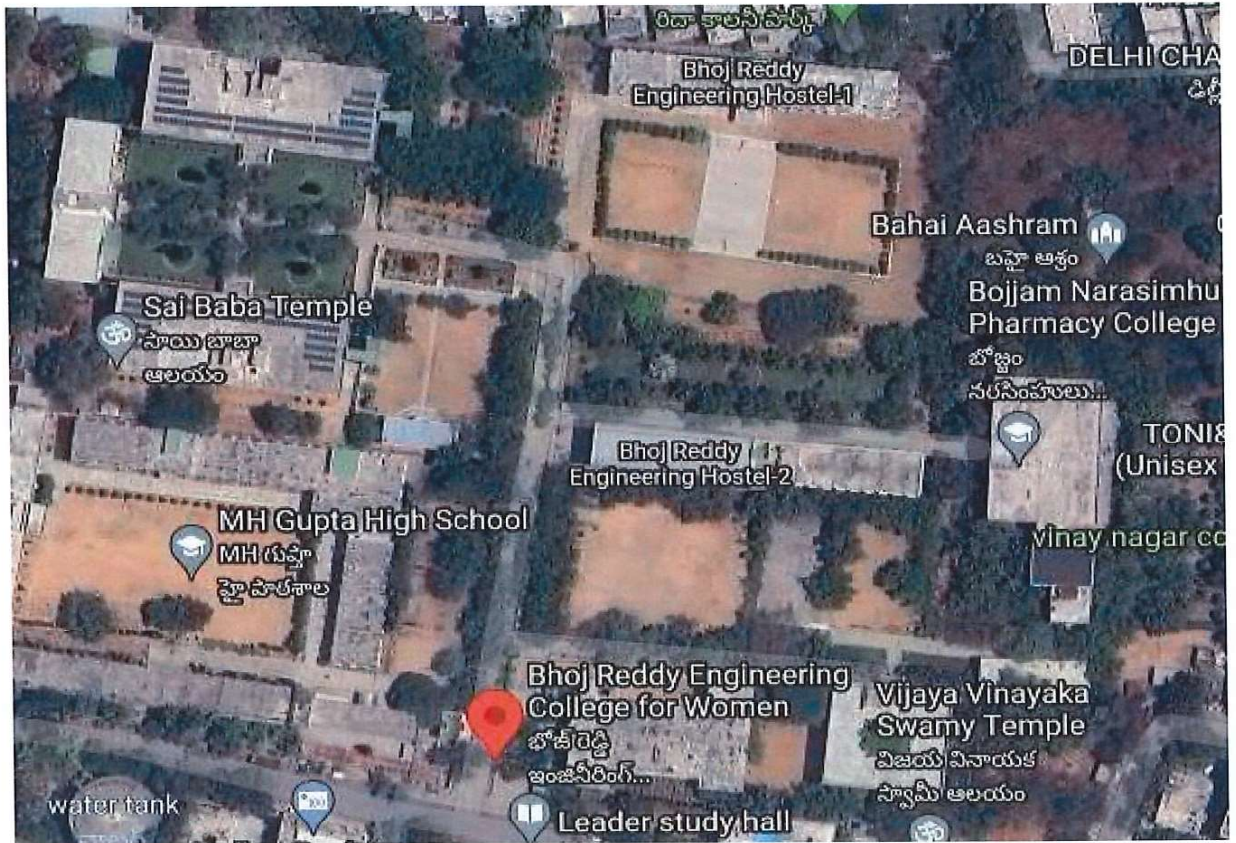
### **Advantages of Environment Audit:**

Environment Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Some main advantages of Environment Audit are: It helps to shield the environment.

- Ambient Environmental Condition.
- Authenticate conformity with the implemented laws.
- Awareness about environmental guidelines and duties.

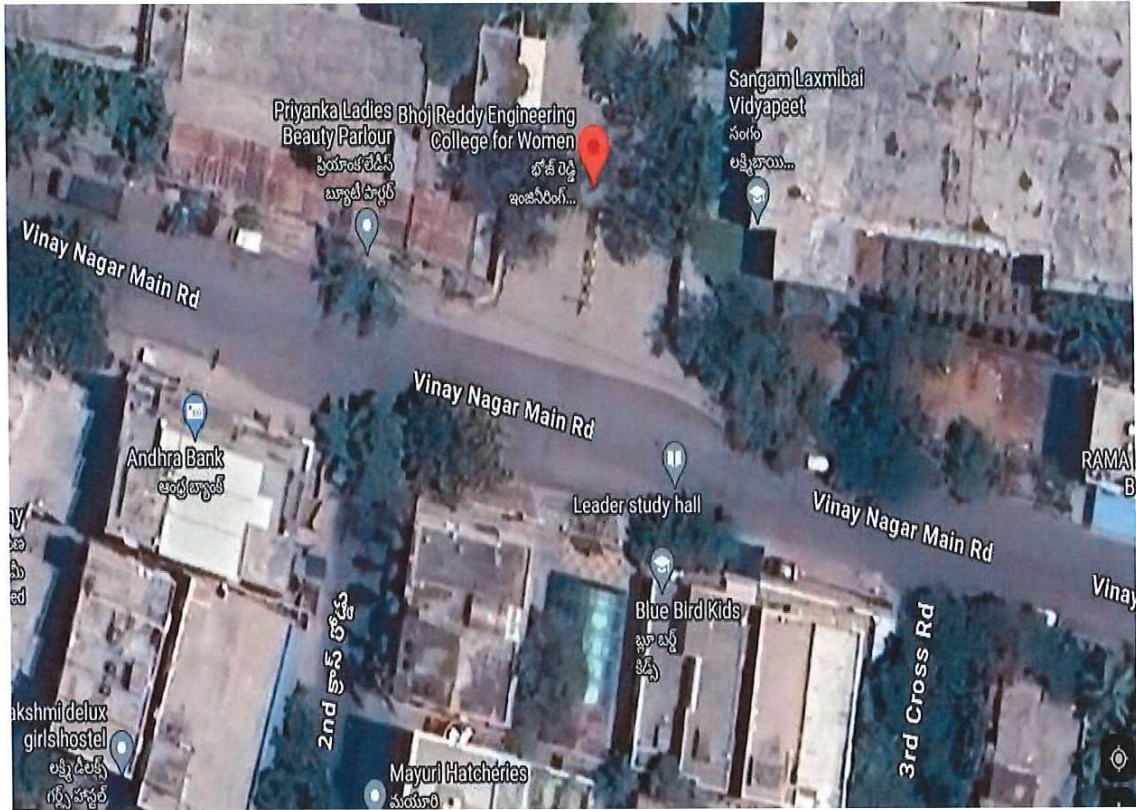
- Awareness and Training on Sustainability for Students.
- Minimizing the energy consumptions and focus on green and clean energy.
- Minimizing the waste and managing the cost.

### Environment Setting



**Arial perspective of Bhoj Reddy Engineering College for Women**





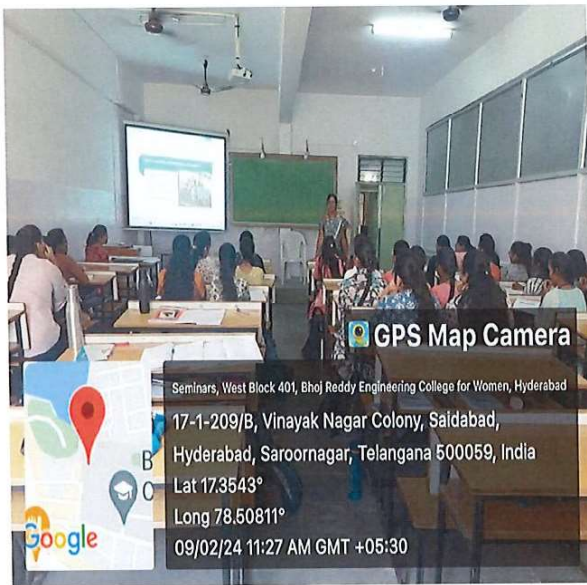
**Location of Bhoj Reddy Engineering College for Women**

I. The Environment Audit has the following 10 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

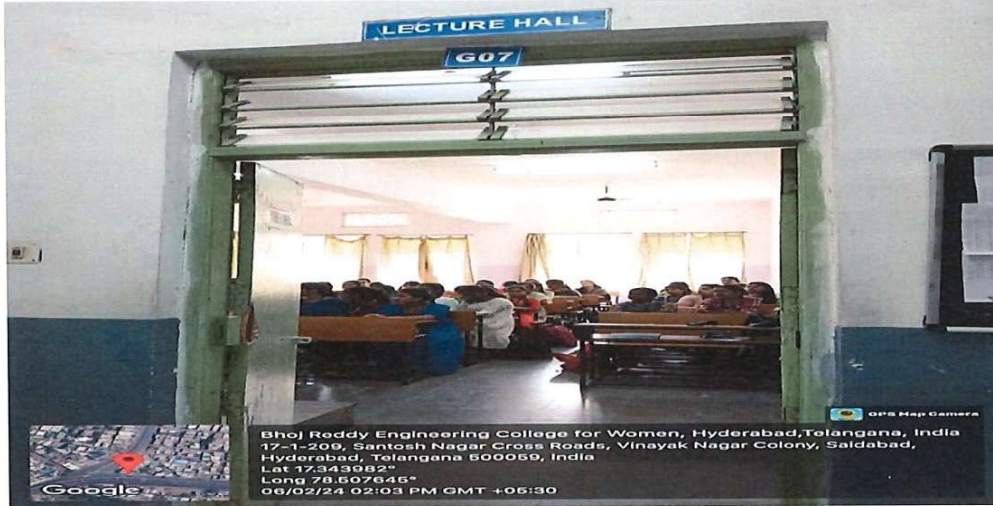
- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Energy Efficiency
- d) Paper Waste Management
- e) E-Waste Management
- f) Solid Waste Management
- g) Maintenance of Building
- h) Green belt/ Landscaping

**I. a) Good Daylight Design and Ventilation:**

- ❖ Corridors are wide with good ceiling height.
- ❖ Classrooms and Library have large windows. Adequate daylight is received through the windows during daytime.
- ❖ Classroom walls, corridors and other areas are white-washed, this enhances the daylight received.
- ❖ Curtains are provided on some of the windows to avoid glare.







### **I. b) Water Efficiency:**

Conservation of water helps to protect ecosystems, and ensure a reliable supply of clean water for future generations. BRECW has the facility of Rain water harvesting pit in the campus and also Educating students about the importance of water conservation. Encourage friends, family, and community members to adopt water-saving practices. Monitoring of water consumption by fixing Water meters.

By accepting these practices and promoting water-efficient behaviours, we can help to ensure the sustainable use of this vital resource for future generations and mitigate the impacts of water scarcity. Encourage staff and students reporting of broken sprinklers or any water-related issues to fix them quickly. Regularly monitor water usage and educate on ways to save more water in the college. Water coolers are provided for drinking water in all the blocks having a capacity of 40/80 litres of water. Dual flushing system is provided in the washrooms. The dual-flush toilet typically uses less water, resulting in lower running costs and a lower environmental impact.

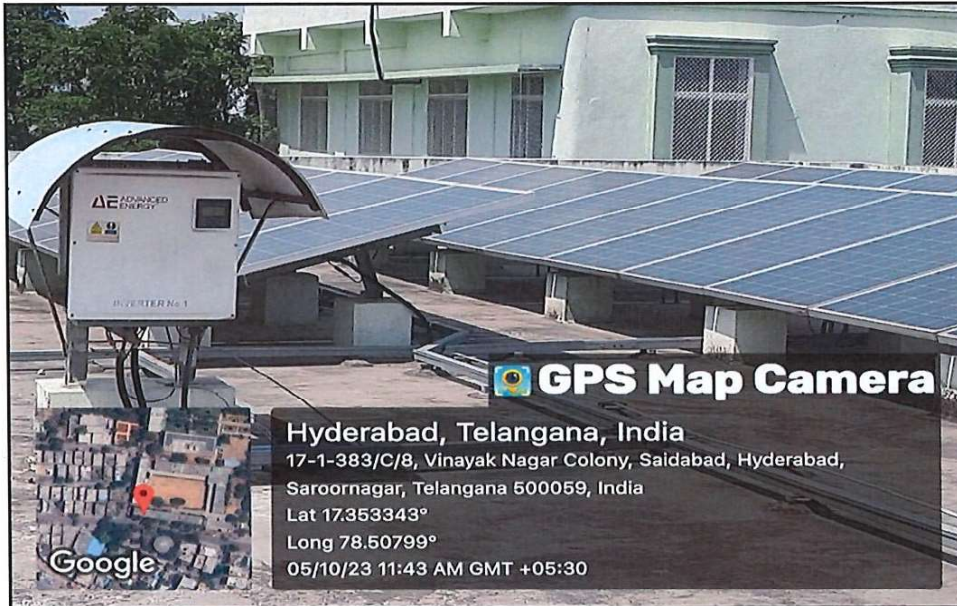
### **I c) Energy Efficiency:**

Electricity: Power is supplied by local distribution company. The major electricity consuming equipment installed in the campus are Air Conditioners, Water Coolers, Lighting, Desktop, Printers, electrical & mechanical lab machines etc.

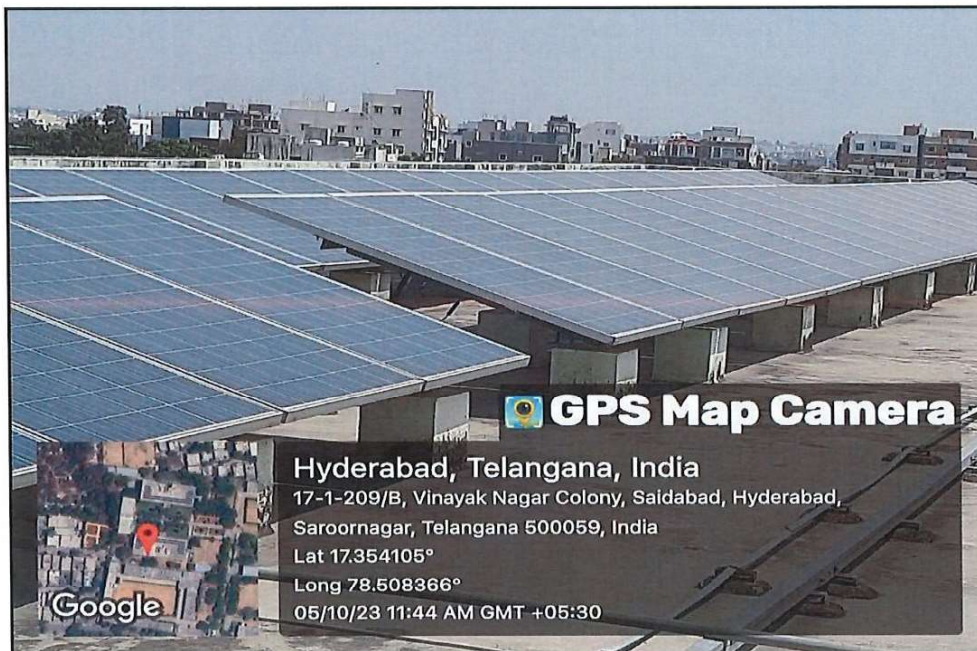
It was observed that:

- LED lights are installed in the campus.
- Campus has air conditioners which are in good working condition.

- Solar power system of 100KWp is also installed in the campus (South Block and north Block).

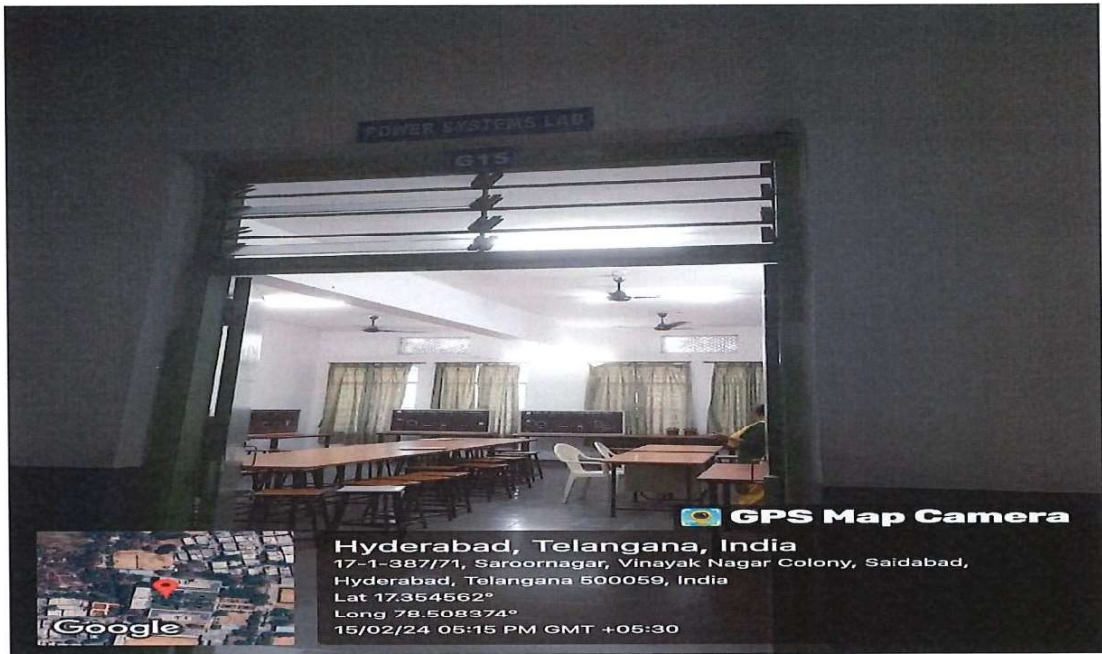


Front view of Solar Power Plant 100KWp

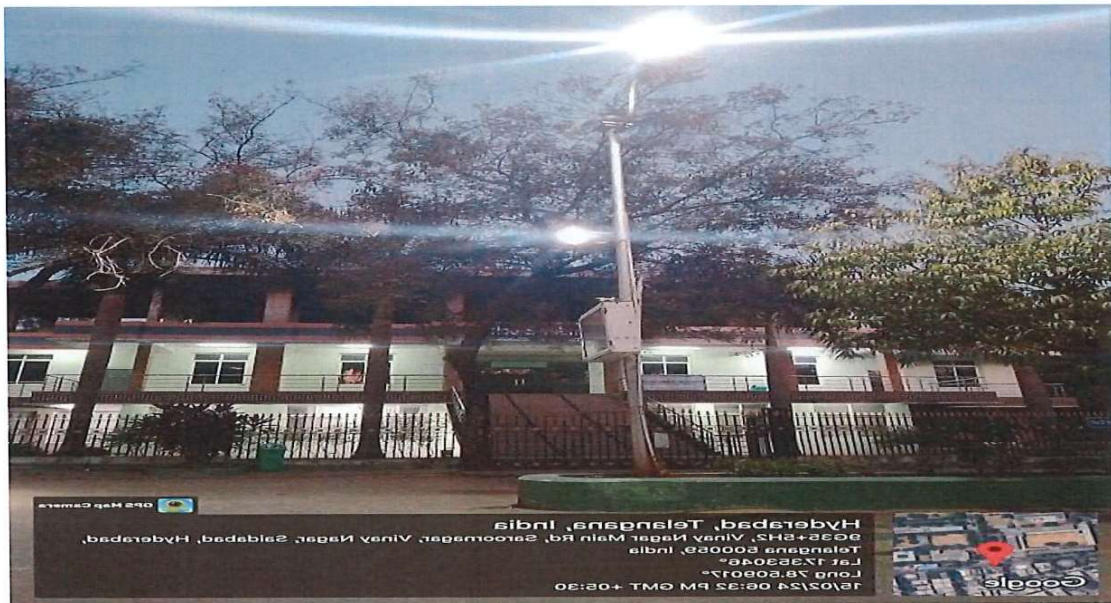


Corner view of Solar Power Plant 100KWp





LED Tubes



LED Street Lights



#### **I. d) Paper Waste Management:**

BRECW encouraging usage of

- ❖ Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.
- ❖ Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- ❖ Internal notices and communications are through E-mail/Whatsapp.
- ❖ One sided paper practice which come by student's record and other activities.

#### **I.e.) E-Waste Management:**

College will discard minimum configuration computers, Out-dated computers, electronic waste and Batteries to outside agencies.

### **I. f) Solid Waste Management:**

We are using separate dustbins for dry waste, wet waste and Plastic waste available in common places.

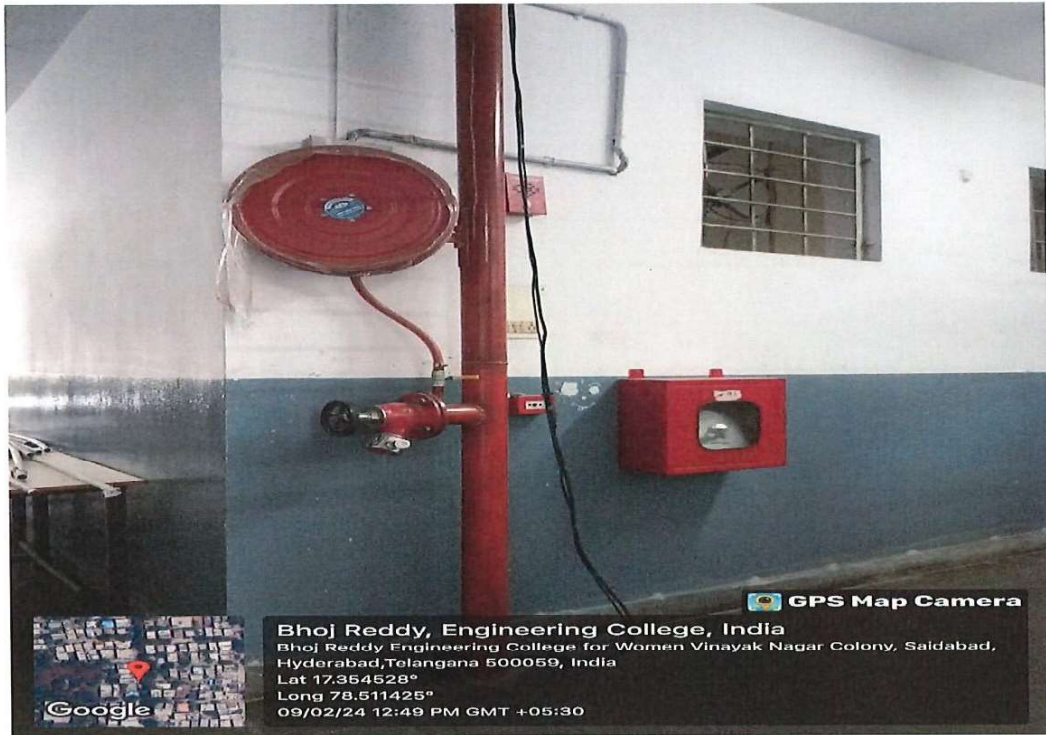


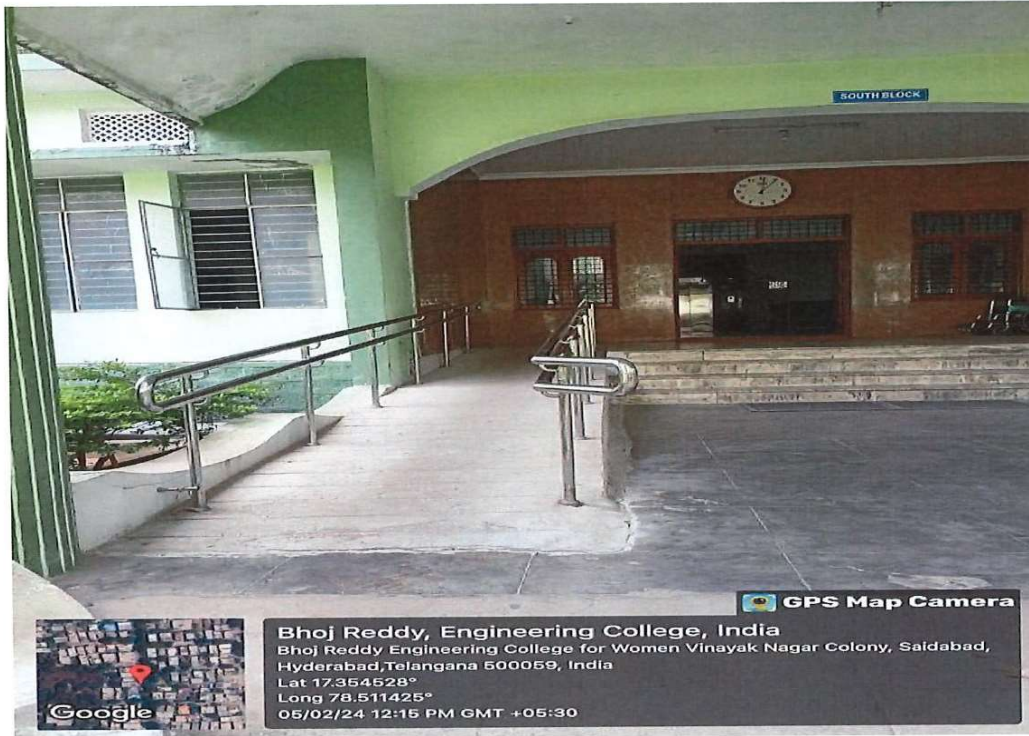
### **I.g) Maintenance of Building**

College has easily accessible,

- Staircase and ramps are provided for staff and students.
- Fire extinguishers are provided for emergency. They are inspected and serviced by fire protection Service Company annually.
- Directional exit signages and floor markings are present on every floor of the campus.





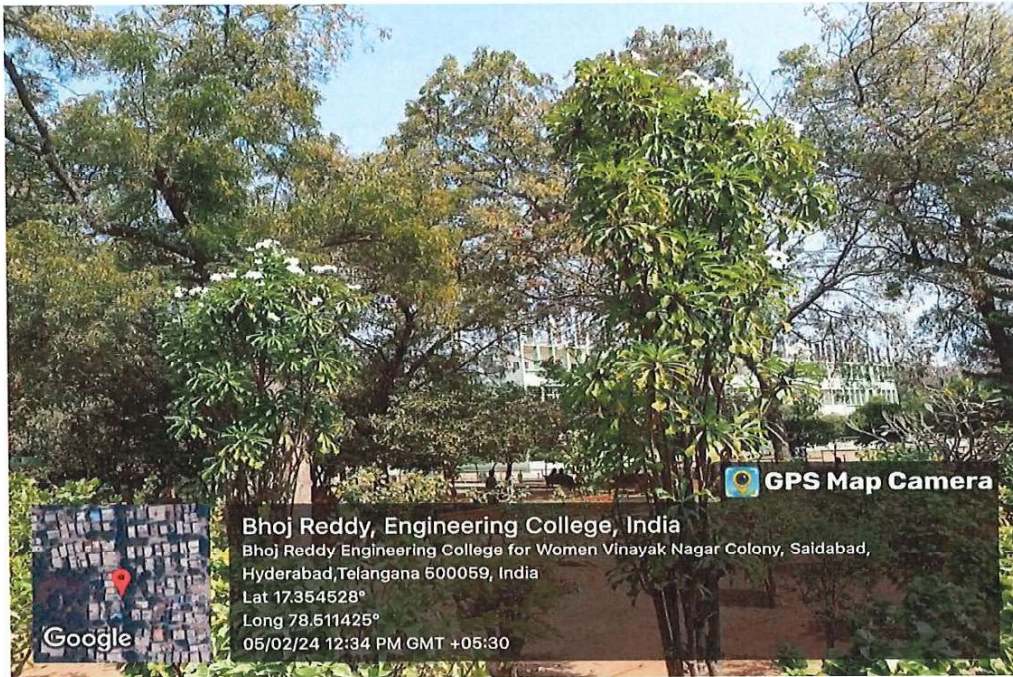


#### I.h) Green belt/ Landscaping:

Large trees and plants are planted in the premises. Plantation also helps maintaining lower temperatures of the area. College is regularly celebrating important days such as Environment Day, Yoga Day etc. as well as other cultural programs.









Afforestation Program conducted by NSS Committee





Afforestation Program Programme conducted by NSS Committee



Yoga day



Swachh Bharat Programme conducted by NSS Committee