



**PRINCETON INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN**  
Vijayapuri colony Chowdaryguda (V), Ghatkesar (M), Medchal (D), TS-500088  
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## **7.1.2**

# ***The Institution has the Facilities and Initiatives for Alternate Sources of Energy and Energy Conservation Measures***

  
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## BIO GAS PLANT Capacity: 1.5 cum Plant

### CONTENT

1. DESIGN BASIS
2. TECHNICAL NOTE
3. FIBER COATING SPECIFICATIONS
4. ADVANTAGES OF KVIC MODEL
5. LIST OF EXCLUSIONS

**The Waste Treatment Plant has been designed based on the following parameters.**

Waste generated from	:	College
Type of waste	:	Food waste
Quantity of waste generated	:	5 kg

### TECHNICAL DETAILS

1	Process	Anaerobic Digester
2	Reactor	Vertical Reactor Portable made
3	Reactor Type	Double Partitioned
4	Design	Water Sealed Jacketed Column
5	Extraction System	Flooding Type Automatic With Respect To Fresh Feed
6	Capacity	1.5 Cum
7	Treatment Capacity per Day	5 kg
8	Gas Production	0.7 kg Of Equivalent LPG GAS
9	Structure	Digester above ground or partially below ground
10	10 Holder Movements	Horizontal Type
11	Feed	Food waste



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The plant can treat 5 kg Food waste per day with a capacity of 1.5 m<sup>3</sup>. The main part of the biogas plant is digester, which has got two chambers. One is solid waste chamber and the other is liquid waste chamber. The waste directly goes to the solid waste chamber inside the digester. In the first chamber food waste remains for 70 to 80 days, then it converted in to semi liquid form. After that it moves to the second chamber where it remains for 20 to 25 days. Then it purely converted in to slightly viscous blackish liquid which automatically pumps out from the slurry pipe.

### Fiber Coating specification

1. Polyester ISO Resin
2. Polyester ISO Resin Gel coat
3. Glass fiber mat 600E
4. G.I pipe with Gas holder B-CLASS 3” pipe.

### ADVANTAGES OF KVIC Model

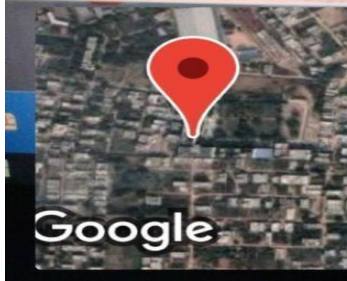
Stable under large load variations
· Tolerant to disturbances
· Recovery very quickly after major upsets
No Clogging of reactors
· No risk of Sludge Bulking
Excellent Strength to retain high pressure of Gas
Expert Fabrication
· Customized Design & Fabrication
· Long Life
· Cost Effective
· Easy Maintenance



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GPS Map Camera



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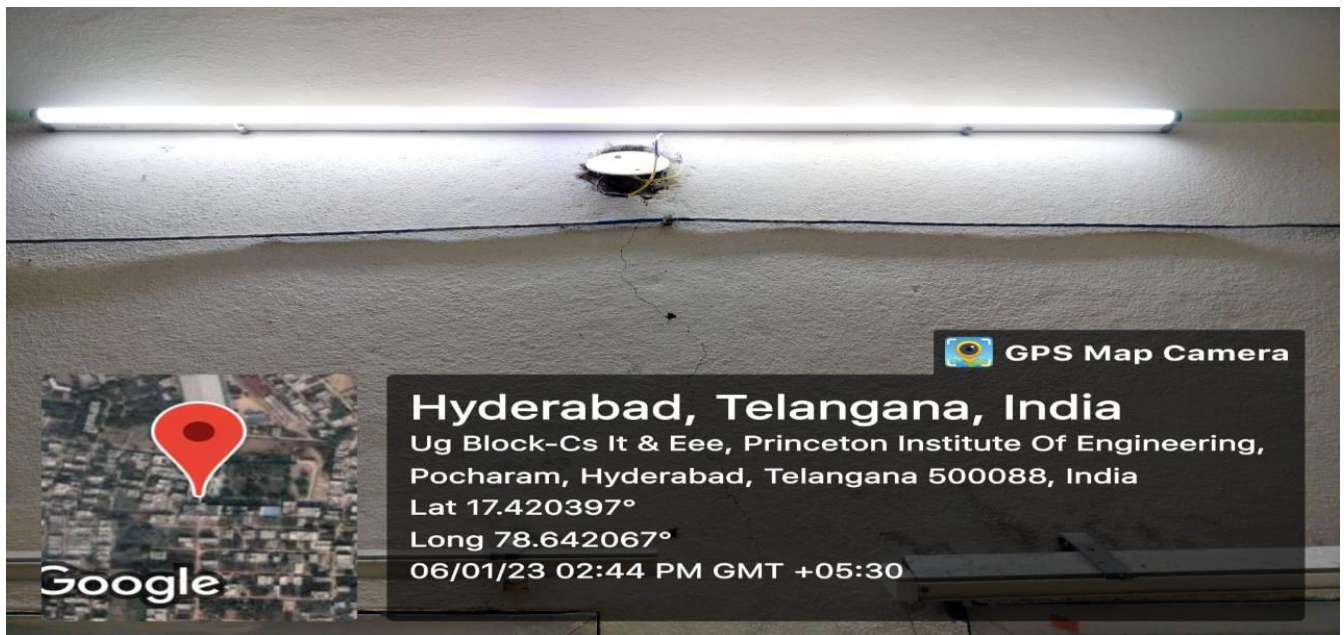
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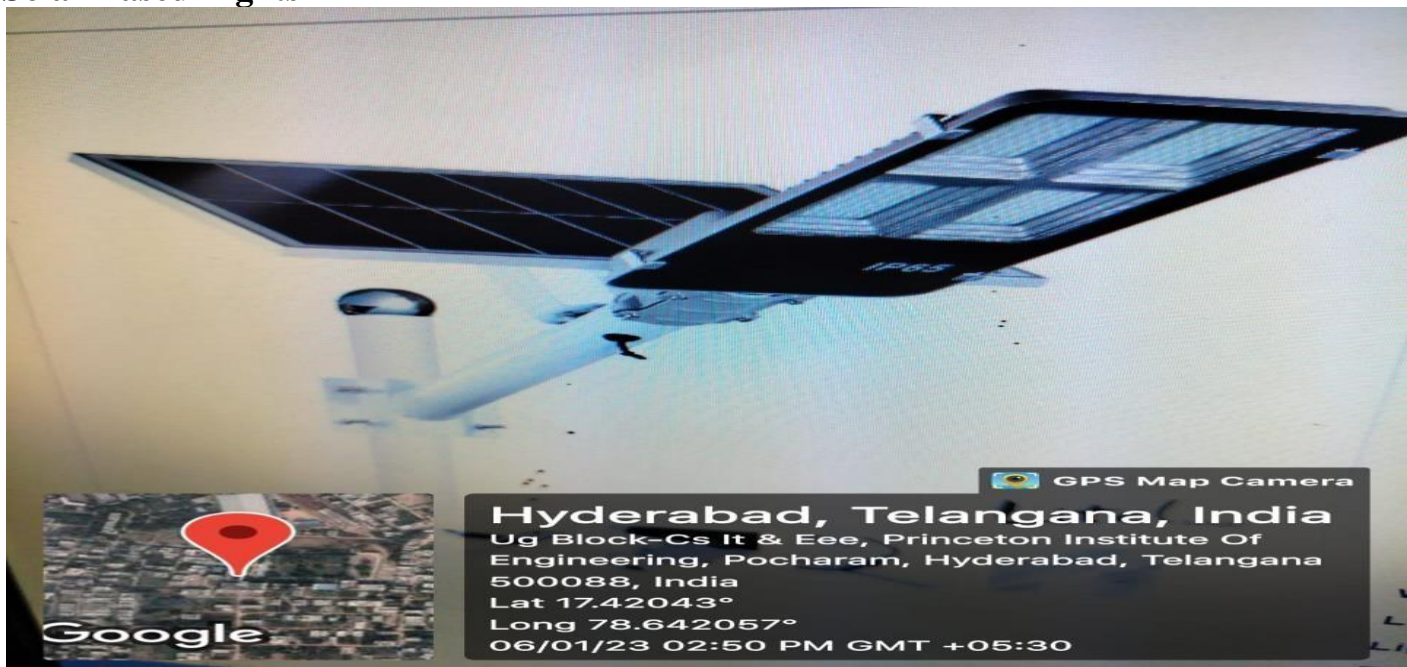


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### LED Bulbs



### Solar Based Lights





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**Solar Energy:**

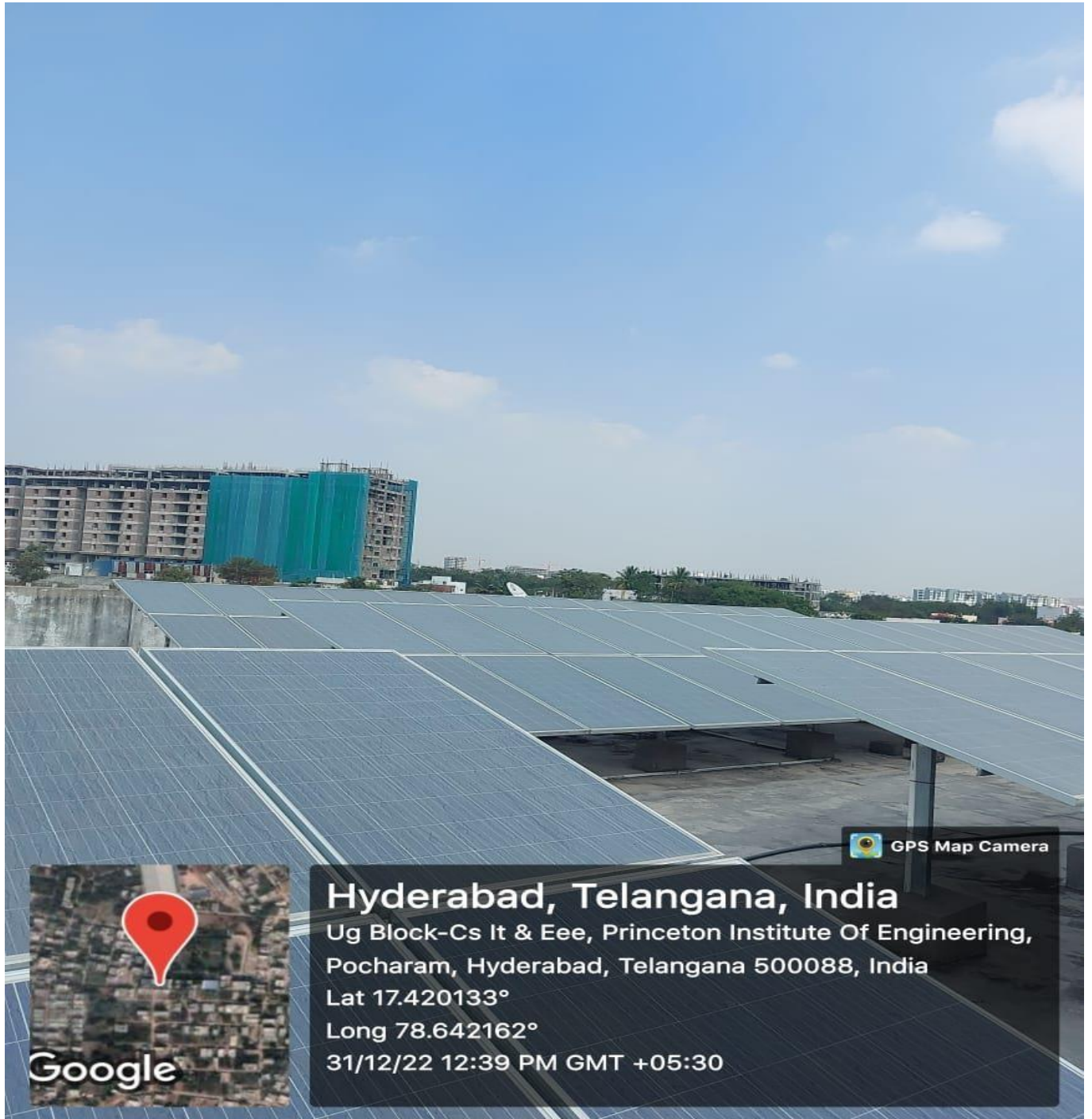
**7.1.2.1 Table of Solar Power Plant Specifications and Energy Consumption**

No of Photo Voltaic Cells	Each Cell Energy Produced	Total Power Produced	Inverter Specifications
45	335 WP	$P = (45 * 335) =$ 15,075 W 15 KW	DC-AC Converter – 15KW Max I/P: 1000 V DC Rated Vtg: 600 V DC Rated Power: 15,000 Watts
Transformer	Technical Specifications	Standard Value	Difference
11KV / 433V	Type : Out door Rated KVA: 63 Rated Voltage: HV 11KV LV 433V Rated Current: HV 3.306A LV 84.00A	Power Factor: 0.8 Transformer: 11KV / 433 V Solar Inverter: 1000V / 600V 15,000 Watts	Transformer PV KVA – KVA 18750 KVA – 11000 KVA = 7750 KVA/0.8KW Total Full Load Power Saved = 6200 Watts



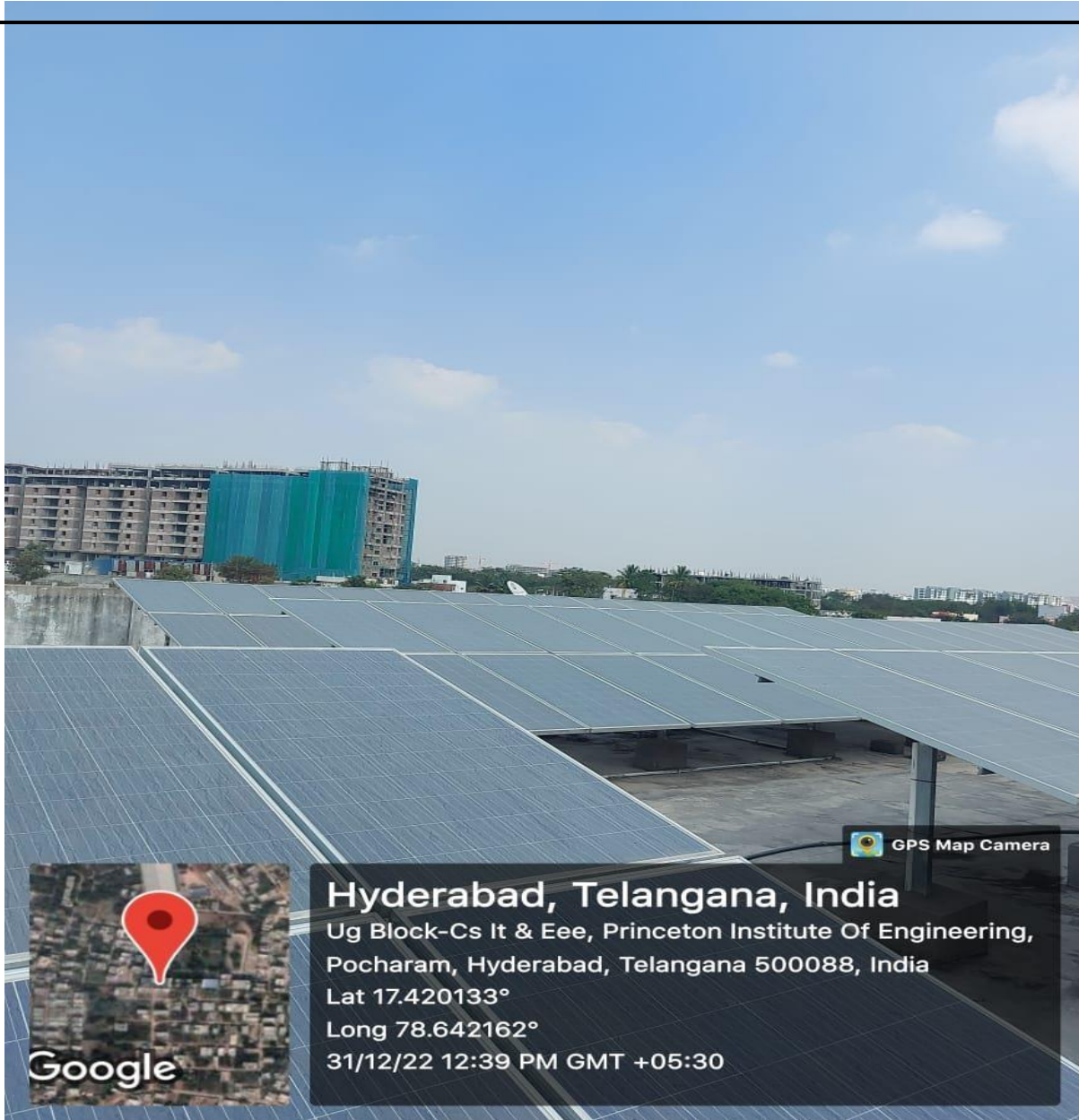
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## Photos





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Photo

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## SOLID WASTE MANAGEMENT

Princeton Engineering College has taken initiatives to segregate the waste at source which is the first and most important step in waste management. Solid waste refers here to all non-liquid wastes. In general this does not include excreta, although sometimes nappies and the faces of young children may be mixed with solid waste. Solid waste can create significant health problems and a very unpleasant living environment if not disposed of safely and appropriately. If not correctly disposed of, waste may provide breeding sites for insect-vectors, pests, snakes and vermin (rats) that increase the likelihood of disease transmission. It may also pollute water sources and the environment.





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## LIQUID WASTE MANAGEMENT

The laboratory waste water does not contain hazardous chemicals and periodical monitoring is done by the maintenance team. At RO plant also waste water collected. This water is then used for the gardening and other purpose. Institution also conducts discussions with students to make them aware about the liquid waste management techniques. Liquid waste from the canteen & the wash rooms is collected into pools, recycled using four beds filtration method will further be used for watering the gardens.



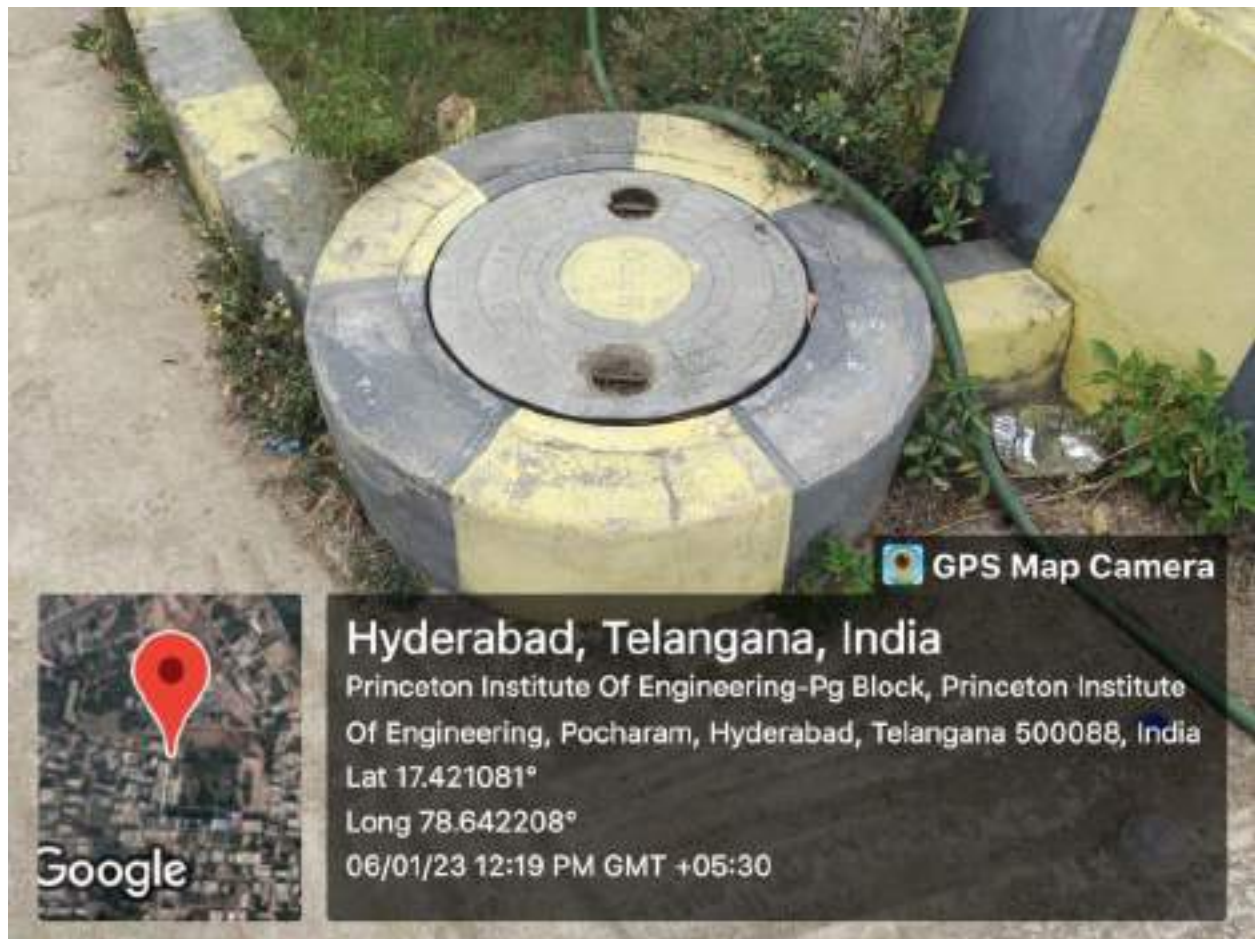
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## E-WASTE MANAGEMENT

The condemned batteries and damaged computers are disposed through outside agencies. Obsolete computers and other electronic gadgets are sold to recyclers. E-Waste Management: Electronic goods are put to optimum use; the minor repairs are set right by the Laboratory assistants and teaching staff; and the major repairs are handled by the Technical Assistant and are reused. Earth Box has a State-Of-The-Art Warehouse measuring 20,000 sq. feet meant for storage, dismantling and recycling of electronic waste with the support of latest technology. The equipment which cannot be refurbished for re-use is dismantled and remanufactured into raw materials (i.e. metals, plastics, glass) to be marketed as recyclable. The company assures that the E-waste does not end up in a landfill. UPS Batteries are recharged / repaired / exchanged by the suppliers.



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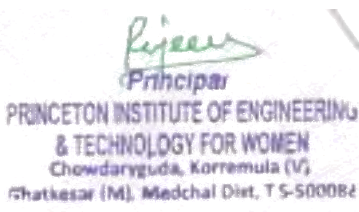
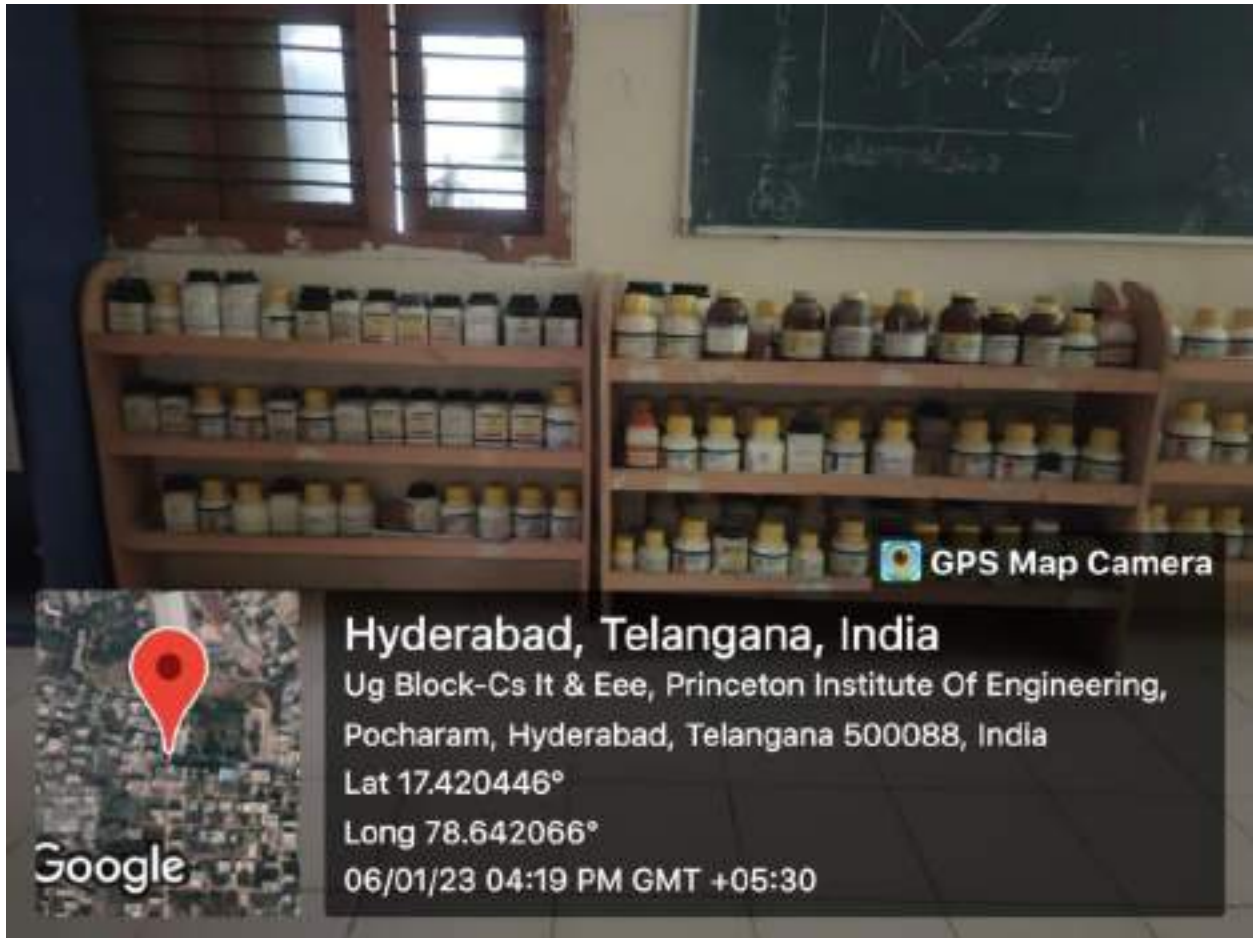
### **HAZARDOUS CHEMICALS AND RADIOACTIVE WASTE MANAGEMENT**

Make sure all containers are properly labeled and that materials are contained in an appropriate container. Don't use any chemical not contained or labeled properly. Store all hazardous materials properly, separate incompatibles, and store in ventilated, dry, cool areas. The waste management oversees the collection and disposal of a number of waste streams from facilities, residences, and laboratories. We manage regulated hazardous wastes like chemicals, oils and cleaners. We also assist the generators in arranging for disposal of biohazard and sharps wastes and recyclable wastes such as batteries and electronic equipment.





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## BIOMEDICAL WASTE MANAGEMENT



  
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## **BORE WELL /OPEN WELL RECHARGE**

Groundwater is clearly the preferred source for farmers. This is one of the reasons why the region has experienced explosive growth in groundwater demand during recent decades and this is also one of the reasons why groundwater demand will further expand with changing climate. However, groundwater lifeline is in precarious situation and is likely to remain for many coming years. Water is a very scarce and crucial natural resource. In recent years, the state and the region is facing a critical shortage of water not only due to uneven and erratic rainfall but also due to improper management of rainwater. Drought is a common feature. Rainwater harvesting and its reutilization for providing protective irrigation proved effective in assured crop production.

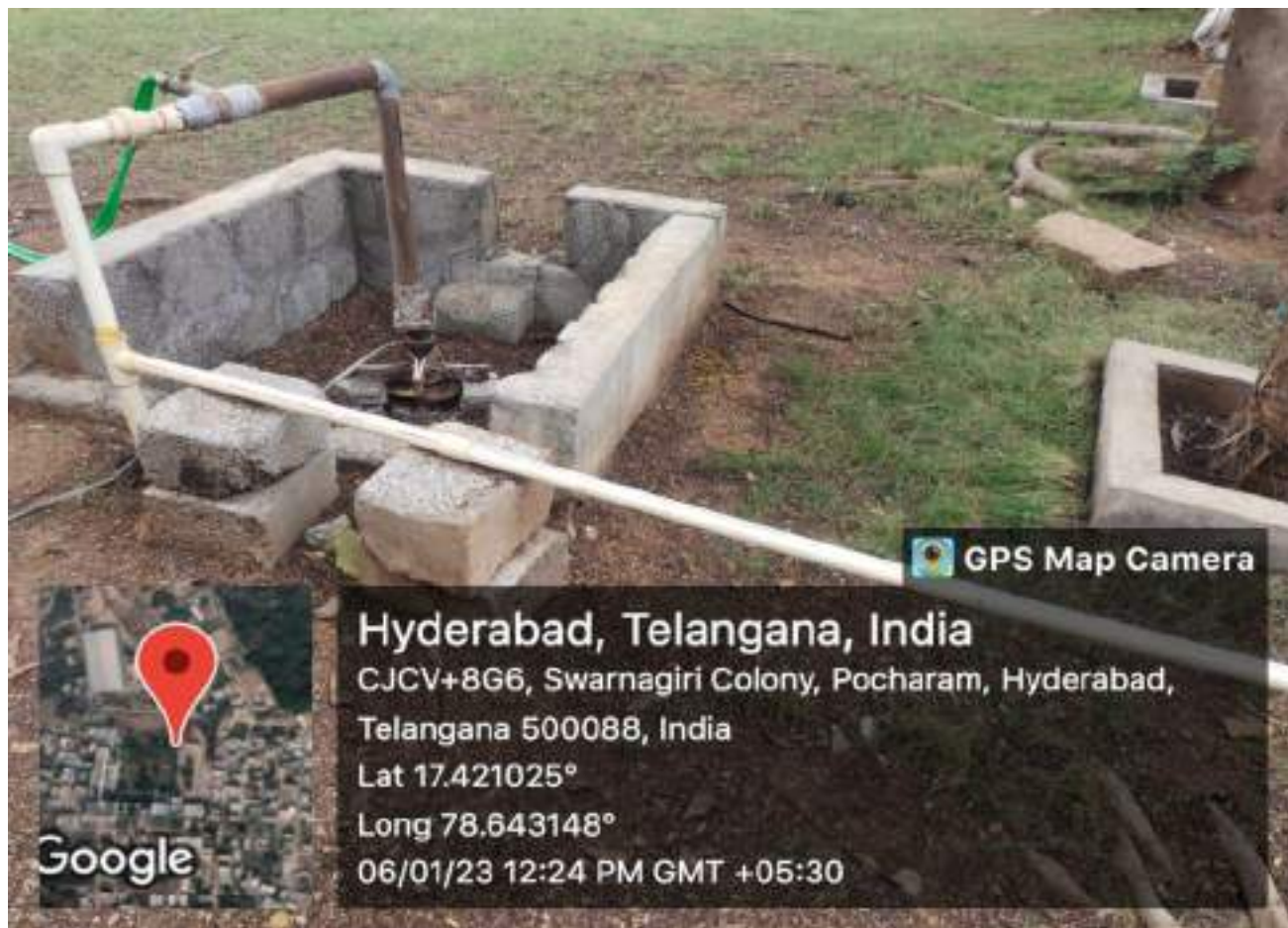




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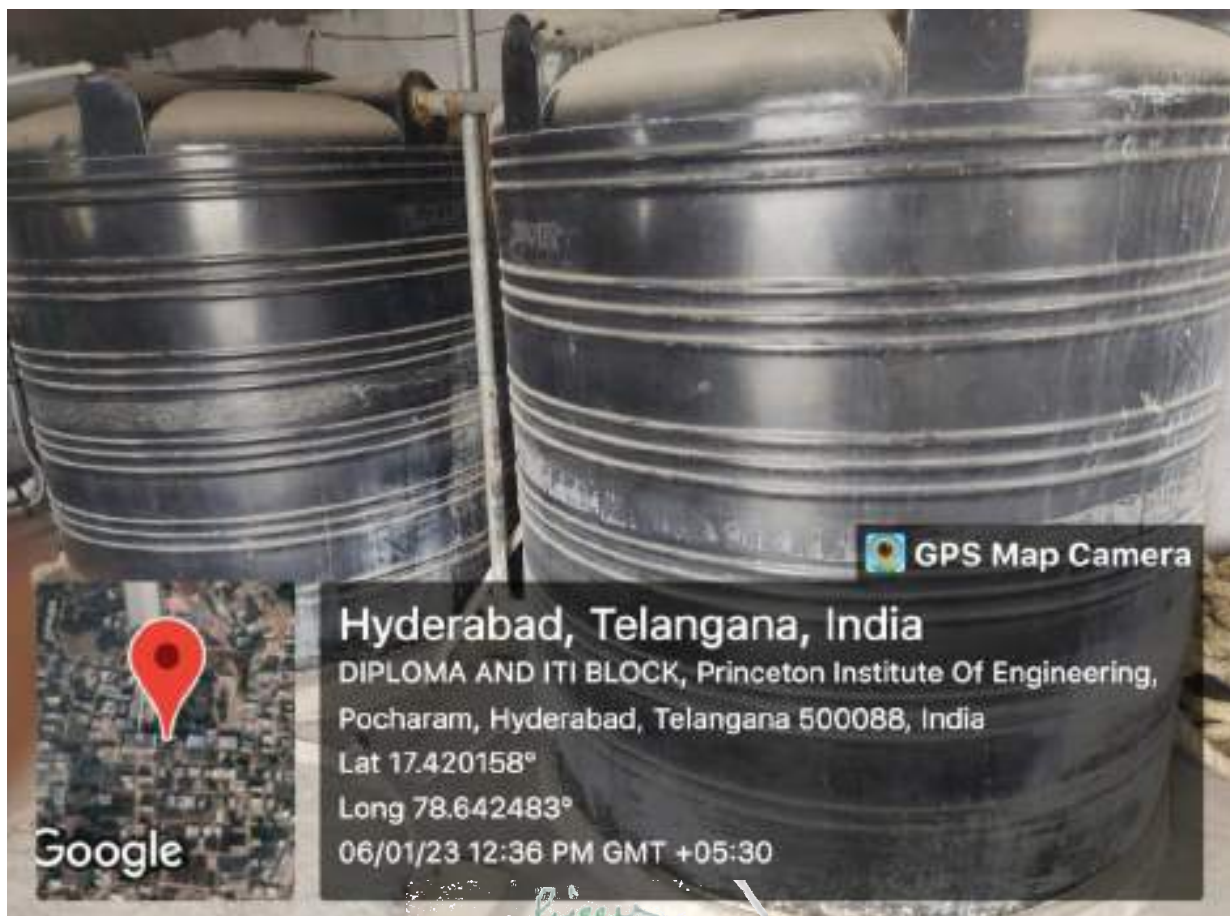
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## CONSTRUCTION OF TANKS AND BUNDS

The terrace water storage tank is generally constructed using brick masonry, which is placed on an elevated platform to provide a reserve supply of water for daily activities. The construction of a water storage tank with the use of brick masonry is a low-cost option for storing water. The size of the tank is governed by the requirement of the capacity of water storage. If the requirement is more, and more than one tank is to be provided at one place, a larger tank of combined net capacity may be built with suitable internal partitions to achieve an economical design.



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## **RAIN WATER HARVESTING**

Rainwater harvesting is collecting the run-off from a structure or other impervious surface in order to store it for later use. Traditionally, this involves harvesting the rain from a roof. The rain will collect in gutters that channel the water into downspouts and then into some sort of storage vessel. Rainwater collection systems can be as simple as collecting rain in a rain barrel or as elaborate as harvesting rainwater into large cisterns to supply your entire household demand. It ranges from rainwater collection to rainwater harvesting to rainwater catchment.

### **Additional Information on Rain Water Harvesting Structures And Utilization In The Campus**

Recharging Of Ground Water And Rain Water Collection And Utilization Are Implemented In Princeton Engineering College. Rain Water Harvesting Methods That Are Implemented In The College Campus And Has Many Benefits, Such As It Prevents Soil Erosion And Increase Ground Water Levels. Princeton Engineering College Is Deeply Concerned And Unconditionally Believes That There Is An Urgent Need To Address Regarding The Rain Water Harvesting Methods.

**Rainwater harvesting is practiced in PETW campus:**

Artificial recharge of groundwater: Recharge the rainwater in a scientifically planned way by construction of rain water harvesting recharge pits to augment the groundwater. It has been very helpful to increase the ground water levels.

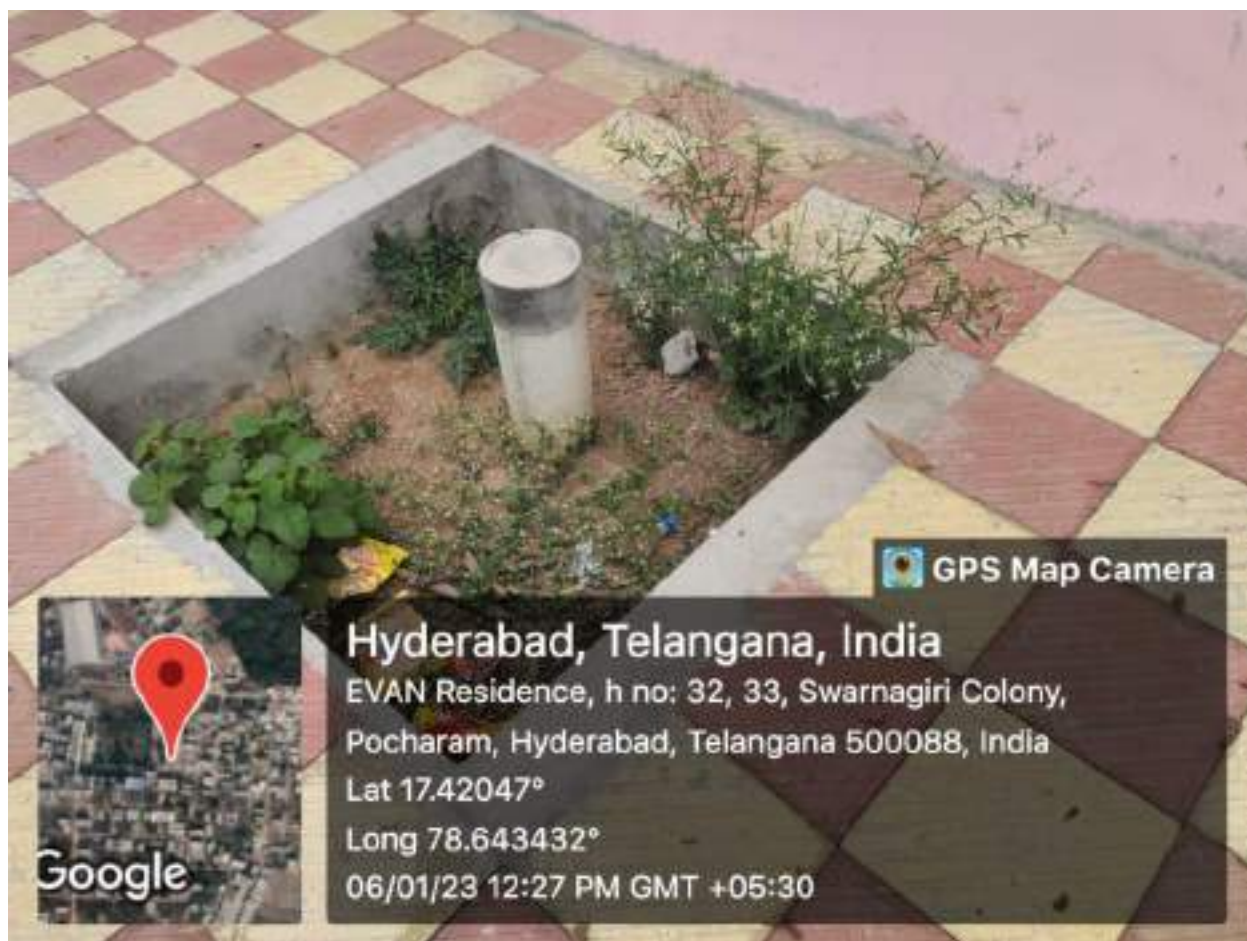


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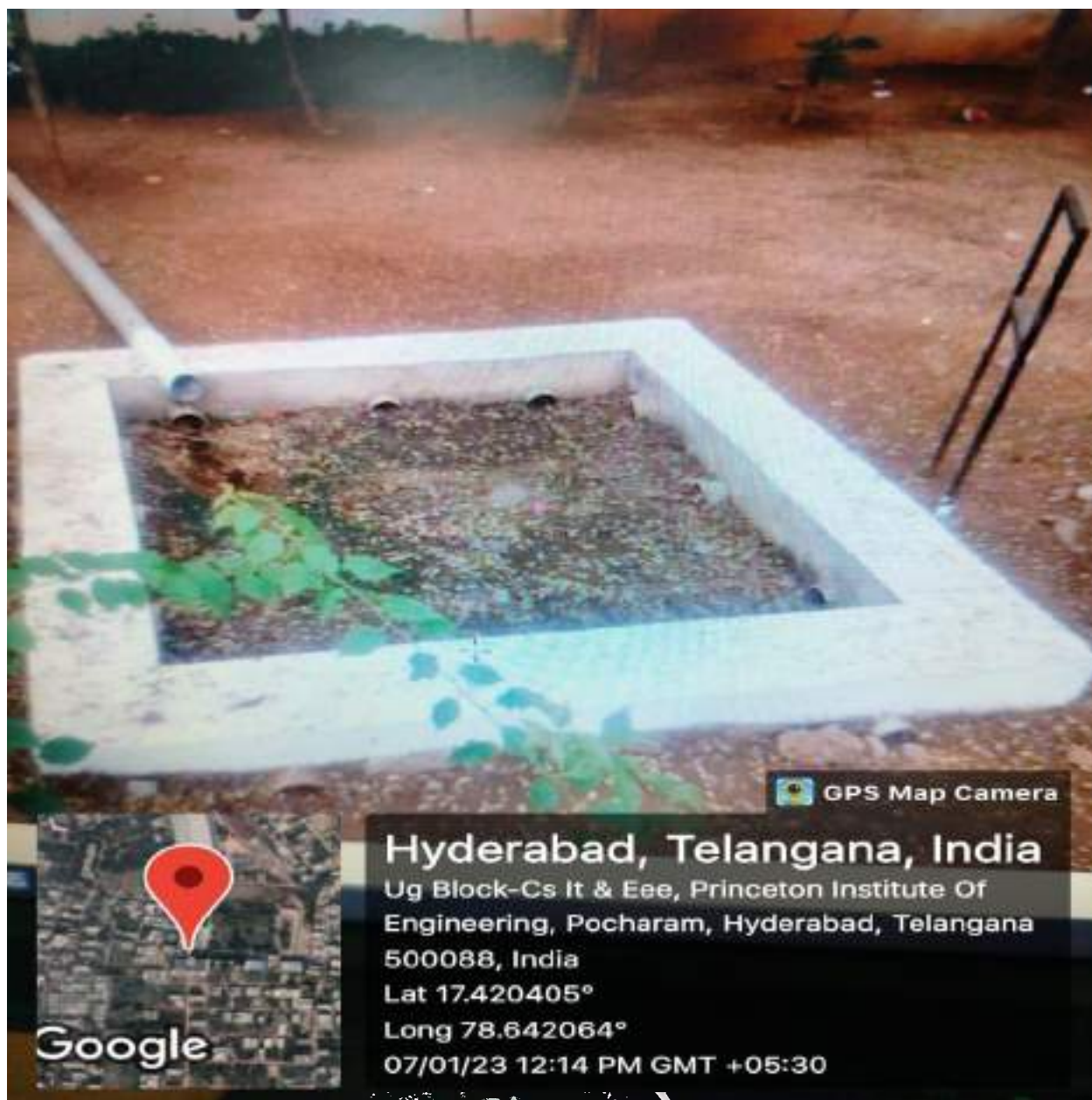
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## WASTE WATER RECYCLING

It is a process used to remove contaminants from wastewater or sewage and convert it into an effluent that can be returned to the water cycle with minimum impact on the environment, or directly reused. The latter is called water reclamation because treated wastewater can be used for other purposes. Sanitation also includes the management of human waste and solid waste as well as storm water (drainage) management. By-products from wastewater treatment plants, such as screenings, grit and sewage sludge may also be treated in a wastewater treatment plant.



  
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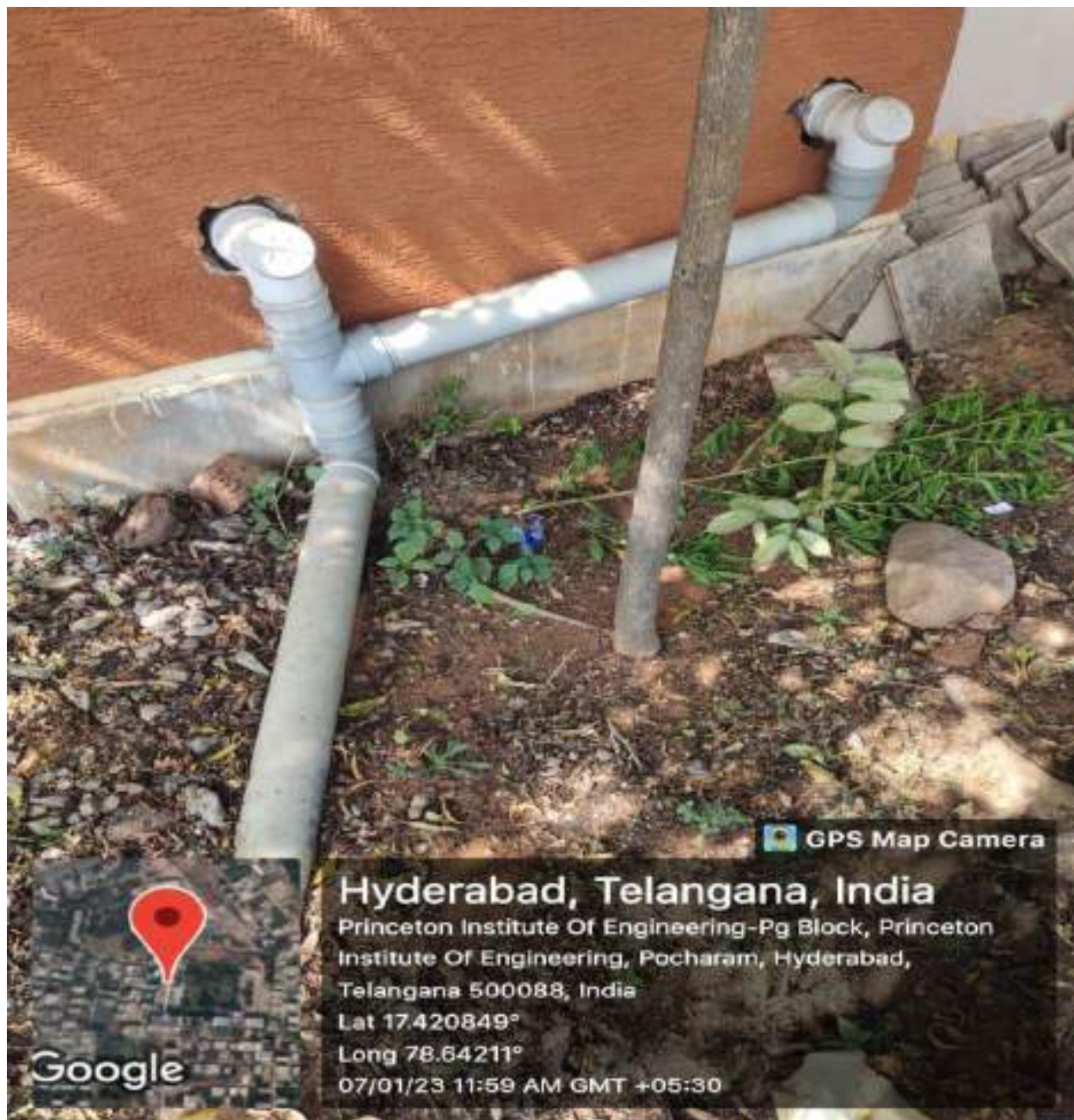
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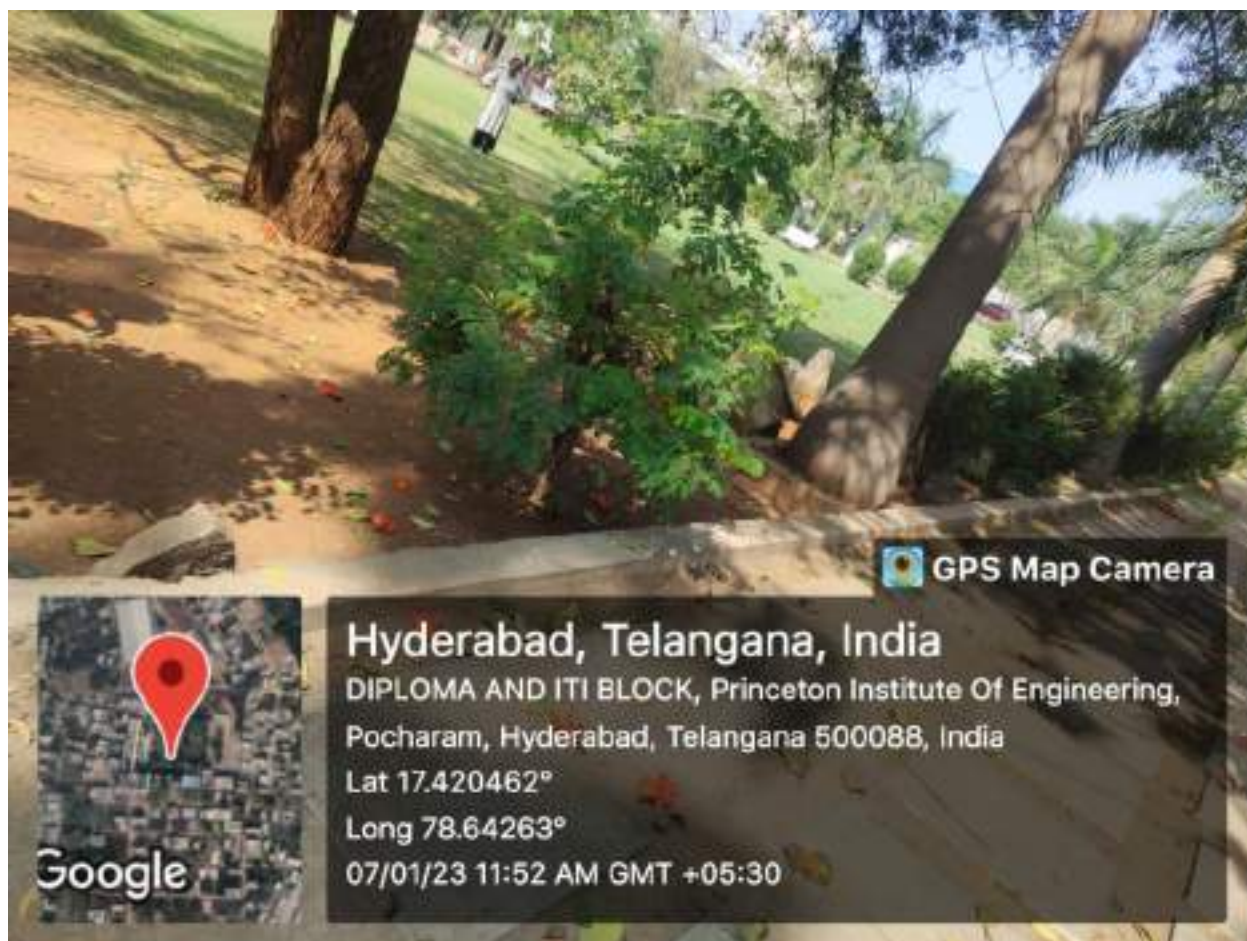
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Hyderabad, Telangana, India

DIPLOMA AND ITI BLOCK, Princeton Institute Of Engineering,  
Pocharam, Hyderabad, Telangana 500088, India

Lat 17.420144°

Long 78.642457°

06/01/23 12:36 PM GMT +05:30

Google

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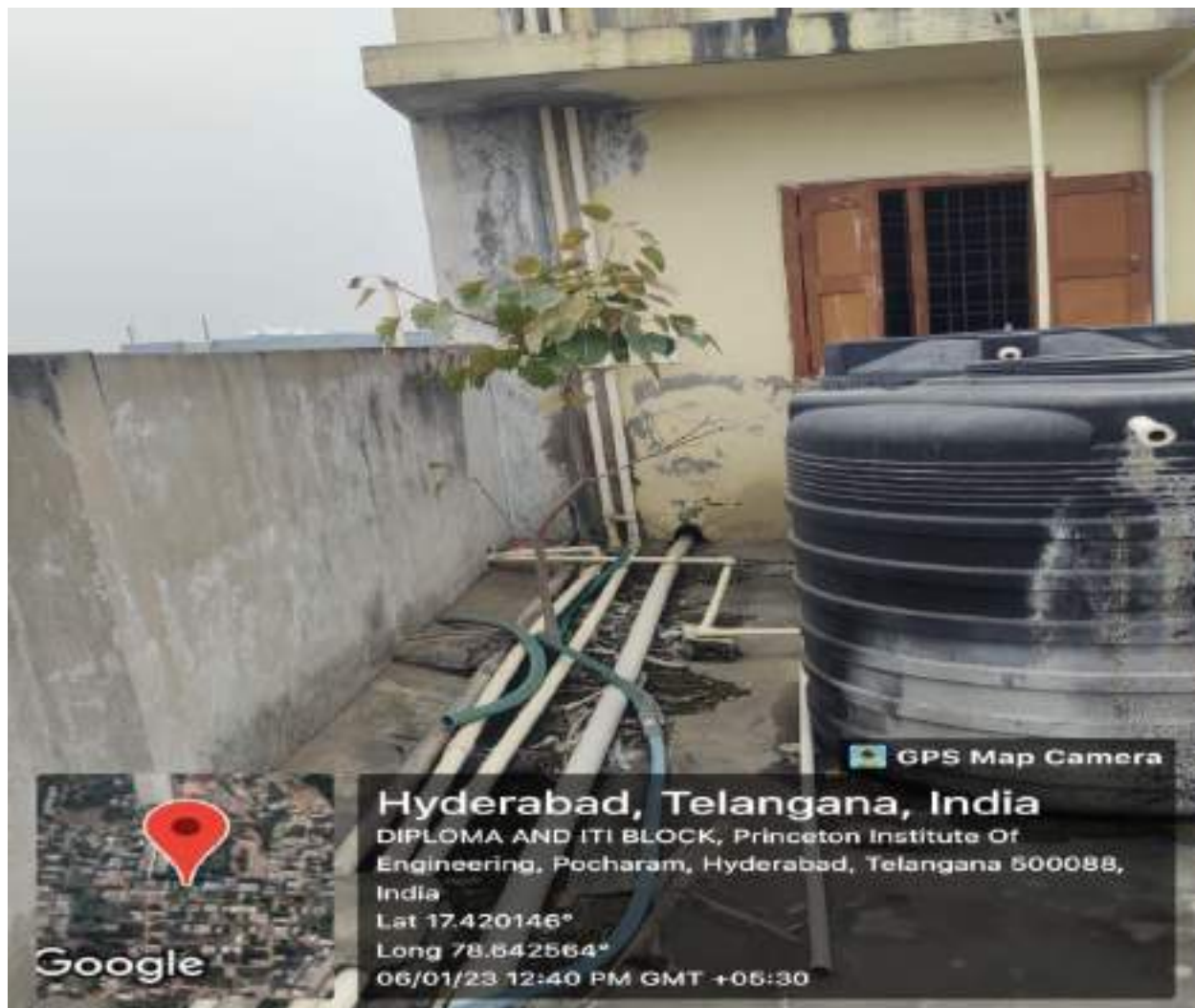
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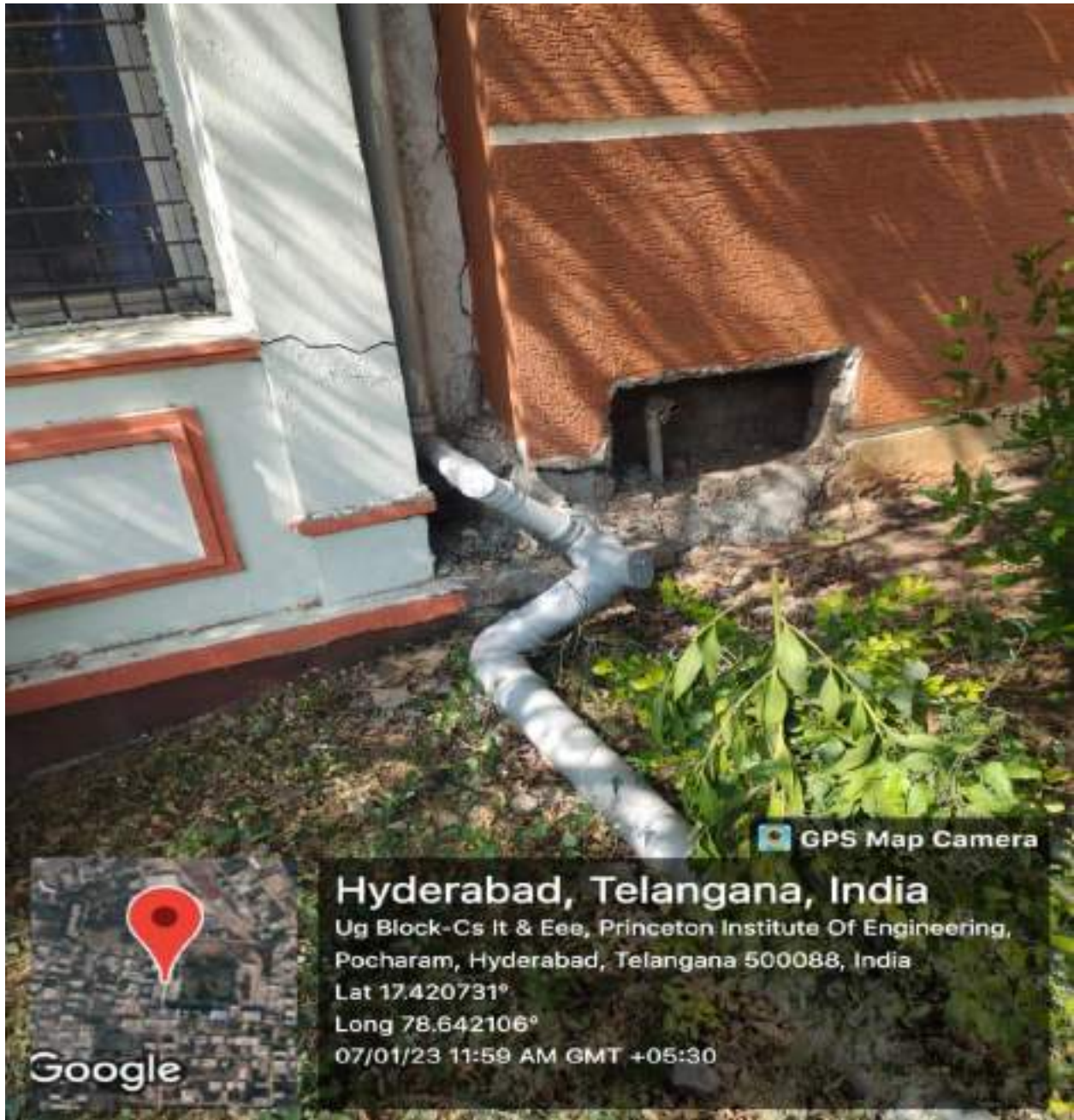
*Pijeev*  
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## **7.1.2**

# ***The Institution has the Facilities and Initiatives for Green Campus Initiatives***

  
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**USE OF BICYCLES/ BATTERY POWERED VEHICLES**

Due to the restriction of entering motor vehicles in to the campus. The institute will provide the bicycles or battery powered vehicles to students, faculty and visitors in campus as a mode of transport. It is environment friendly and prevents pollution.



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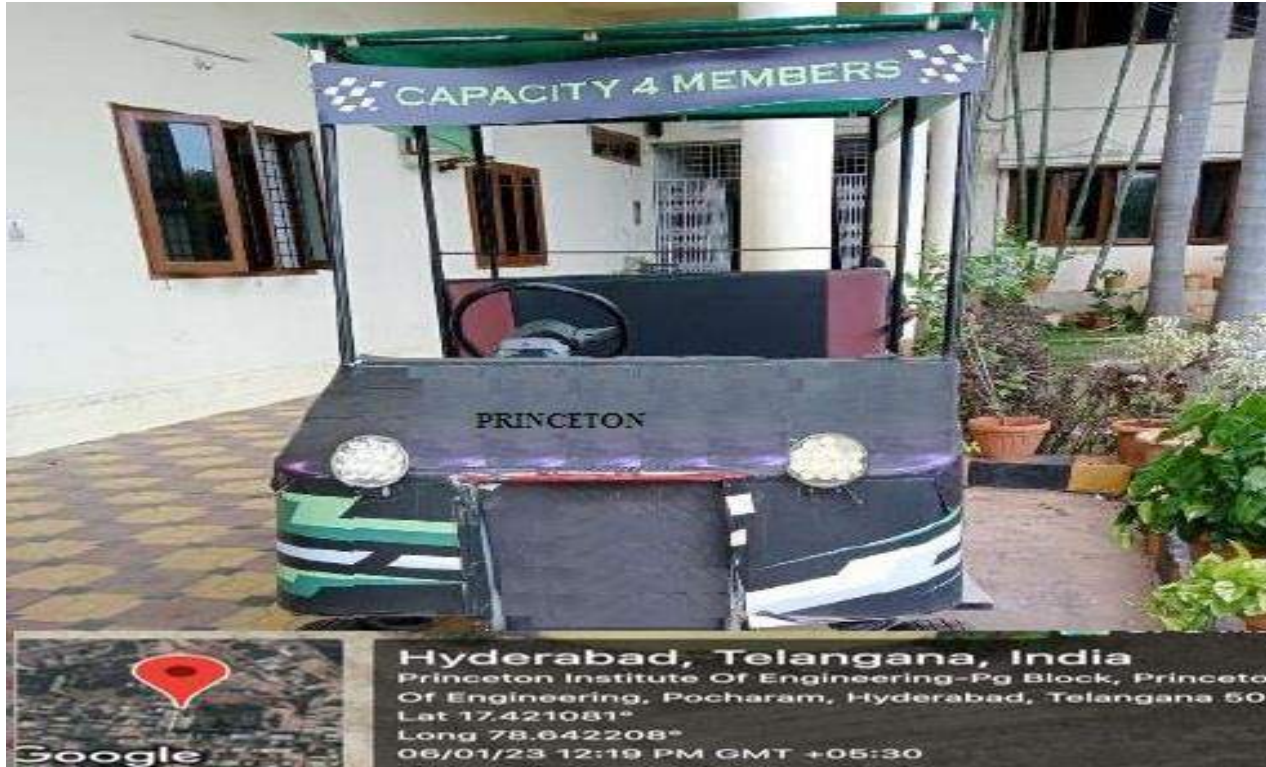


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## **BATTERY POWERED VEHICLE**




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<b>Name of the Activity</b>	Ganesh Chaturthi" held on 31-08-2022	
<b>Type of Activity</b>	CELEBRATIONS	
<b>Date and Time of Activity</b>	31-08-2022	11.00am
<b>Details of Participants</b>	50 faculty members & 200students	
<b>Coordinator(s)</b>	MOOD NARESH	VENKATA RAMANA .G
<b>Organizing Dept./Support System</b>	All the Departments	
<b>In collaboration with</b>	Seminal hall	
<b>Description</b>	<p>As a part of the campaign towards "Eco Friendly Ganesha" our college students along with NSS Unit went to kuntloorvillage. Students distributed Clay ganesha idols to villagers and explained the concerns which we all have to face by using plaster of Paris Ganesh idols made with added colours. Finally, they explained the importance and environmental benefits of nature. The program created more awareness in the public. As an encouragement some of the village people have diverted from POP ganesha usage to eco friendly clay ganesha</p>	
<b>PHOTOS</b>		
<p>Email: <a href="mailto:Princeton.womeneng@princetonmail.com">Princeton.womeneng@princetonmail.com</a> Website: <a href="http://www.petw.in">www.petw.in</a></p> <p>PRINCETON INSTITUTE OF ENGINEERING &amp; TECHNOLOGY FOR WOMEN Chowdaryguda, Korremula (V) Ghatkesar (M), Medchal Dist, T S-500088</p>		



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**SAY NO TO PLASTIC**

The institute initiates the plastic free campus activity which will support an Eco-friendly in nature. For that the institute banned single-use plastic items such as plastic bottles, bags, spoons, straws and cups completely and awareness is created among staff and students through orientation and display boards in the premises. To restrict the use of plastic, measures have been taken to replace plastic tea cups and glasses with steel glasses in the canteen. The staff and students are informed to use steel or copper water bottles instead of plastic bottles.



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## **LANDSCAPING WITH TREES AND PLANTS:**

Carbon dioxide neutrality is maintained on the campus by planting different varieties of trees and plants. The green campus concept offers PEC to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind



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**GREEN CAMPUS INITIATIVES:**

Policy Documents! Decisions Circulated for Implementation The institution has systematically planned every procedure for maintaining its Campus green. Special committee is assigned for developing the infrastructure of organization. Well-coordinated efforts are taken for the institutional development as a pact of social responsibility, maintaining eco-friendly environment is our prime duty.

1. Eco-friendly environment is maintained by planting trees and avoiding the use of plastic in day-to-day life.
2. Ample of trees, plants and attractive vines in the institution decorate the condors, passages and porch and provide the rich source of oxygen.
3. A dedicated full-time gardener is appointed to take care of the plants, trees and vines in the campus. The use of organic fertilizers for growing the trees is promoted.
4. The awareness's programs like tree plantation campaigns, cleanliness campaigns are held to encourage to lead eco-friendly life and make the environment clean.
5. The institution encourage the student opt for public transport in order to control pollution.
6. The institution organized some strategies to set and achieve paperless goals. The institution insists to minimize the use of papers for office purposes as by reducing excessive use of printing, remove extra printers and request paperless statements. The institution supports for organizing digital documents, using e-mails, using social networking sites like whatsapp for everyday notices and communication.

  
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**Policy Documents/ Decisions Circulated for Implementation of Ban on Plastic :**

The institution has systematically planned every procedure for maintaining its Campus 'plastic-free' and shall strive to make their campuses by systematically banning use of plastics and replacing the same with suitable environment friendly substitutes.

- a. Ban use of single-use plastics in canteen, institution's premises and hostels, etc.
- b. Carry out awareness drives and sensitization workshops on the harmful impacts of single use plastics.
- c. Mandate all students to avoid bringing non-bio-degradable plastic items to the institution.
- d. Encourage their students to sensitize their respective households about harmful effects of plastics and make their households 'plastic free'
- e. Install necessary alternative facilities like water units to avoid the use of plastic water bottles, and encourage use of alternative solutions like cloth bags, paper bags etc., instead of plastic bottles, bags, coven and other goods on campus.

  
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**Policy Documents/ Decisions on Restricted entry of vehicles :**

1. No type of vehicles shall be used during celebrations inside the college campus/hostels.
2. Student's vehicles shall be allowed only up to the designated parking area. Entry beyond point is strictly prohibited.
3. Student shall park their two wheelers outside the gate itself
4. No student shall be permitted to enter the campus with two or four wheelers and park vehicles only on the parking area.
5. No faculty should bring a two wheeler above 350 cc inside the campus. Vehicle speeds shall be limited to 20 km/hr inside campus.
6. Any violation of these shall lead to revoking of parking permit.
7. Students are strongly advised to use college transport/ public transport/ bicycles for commuting to college to promote the green initiatives of the college.

  
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Lt.NO:PETW/OFFICE/45/2

Date:29.10.2022.

**CIRCULAR**

This is to inform all that the institution, keeping in mind the importance of maintaining the campus to be green, healthy and eco-friendly is determined to adopt the following initiatives to which everyone has to adhere to.

1. To maintain the campus complete pollution free no vehicle is allowed inside the main gate of the campus (2-wheeler and 4-Wheeler).
2. To commute from place to place the safest is bicycle; if you are a responsible citizen of the country use bicycle for commuting within the campus will be appreciated.
3. To maintain environment clean and green the institution is very stringent on the use of Plastic bags and Plastic drinking water bottles. It is the responsibility of all staff and students to avoid the usage of Plastics.
4. The resources are very important for any organizations and personal development if they are utilized properly. It is every individual's responsibility to utilize water, power or any other productive resources in a right way.

  
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Lt.NO:PETW/OFFICE/44/8

Date:21.11.2022.

**CIRCULAR**

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Lt.NO:PETW/OFFICE/14/3

Date:16.12.2022.

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Lt.NO:PETW/OFFICE/13/1

Date:02.01.2023.

**CIRCULAR**

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Lt.NO:PETW/OFFICE/13/3

Date:5.01.2023.

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Lt.NO:PETW/OFFICE/45/9

Date:10.11.2022.

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Ghatkesar (M), Medchal Dist, T S-500088



PRINCETON INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

Vijayapuri colony Chowdaryguda (V), Ghatkesar (M), Medchal (D), TS-500088

(Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi)

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## 7.1.2

# The Institution has the Facilities and Initiatives for Disable Friendly, Barrier free Environment



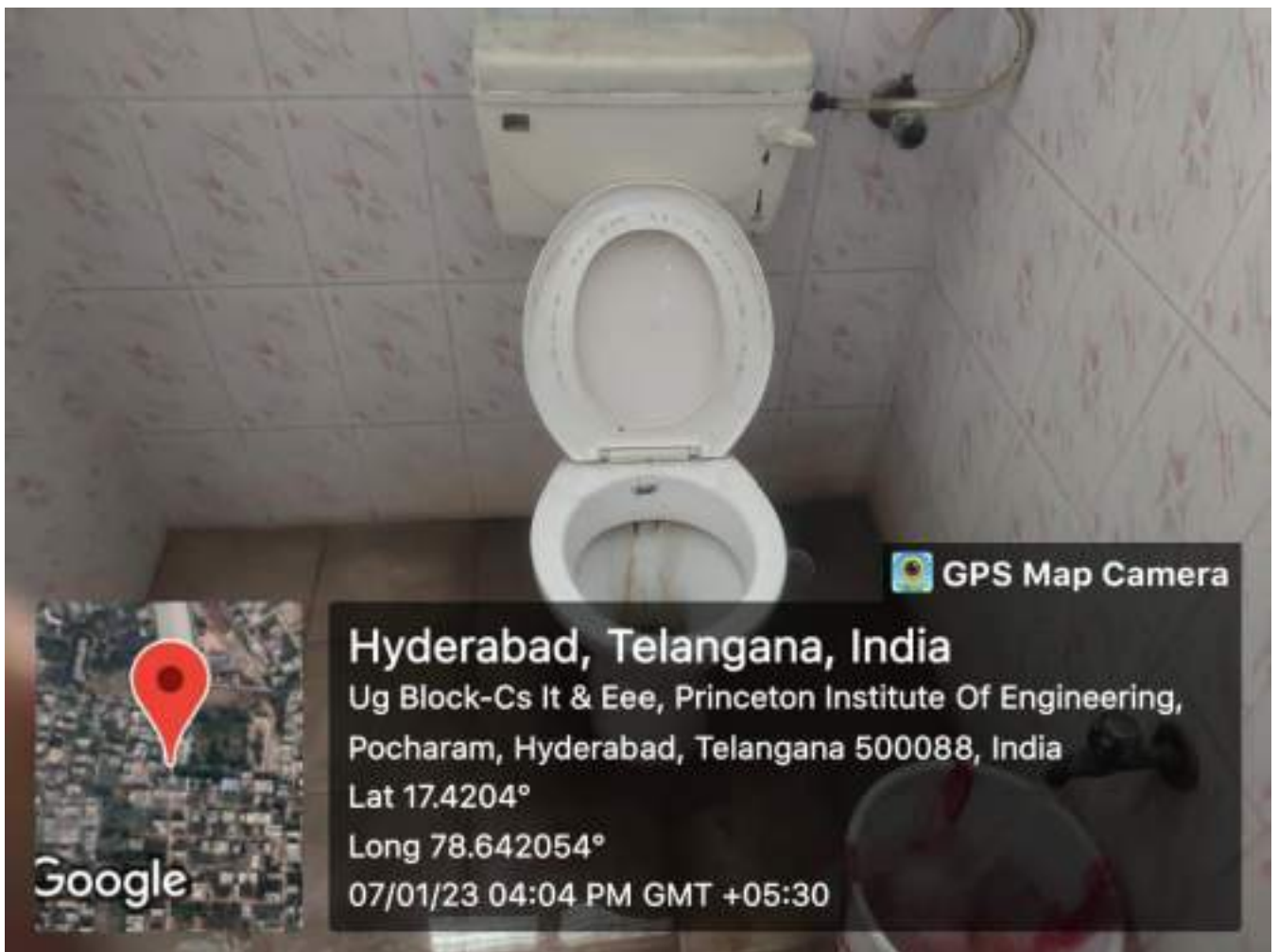
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Ghatkesar (M), Medchal Dist, T S-500088





## **DISABLED FRIENDLY REST ROOM /WASH ROOM:**

Rest rooms are provided with clean and hygienic conditions in every building block. The rooms are constructed in the ground floor for the convenience of the students.





## **POLICY FOR DISABLED STUDENTS**

### **Admission**

1. The institution provides equal educational opportunities to disabled persons in higher education.
2. The Institution adheres to follow the instructions/Orders/norms set by the University Herewith a policy to follow JNTU Hyderabad admission procedure.
3. The persons with disabilities (Equal opportunities protection of rights and full participation) Act, 1995 provide that all government Educational institutions and other educational institutions receiving aid from the government shall not reserve less than three percent seat for persons with disabilities.

### **Facilities:**

1. For physically disabled students ramps/ elevators are provided for their easy access to all facilities on different floors and separate rest rooms to disabled students.
2. In addition to the above minimum needs, the institution is ready to provide wheelchairs, care is taken to allot ground floor classrooms and other classrooms have elevators accessibility.
3. PETW ensures a disabled-friendly physical infrastructure as per Annexure 'A' existing infrastructure to be dealt with in a phased manner.

  
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*Pijee*  
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### **Academic Counseling & Career Advice:**

- I. The institution is embedded with 'Equal opportunity cell' which takes care of counseling & Advising disabled students as a part of their responsibility.
2. Committee initiates to organize programs on world disabled day, white cane day etc., to enhance capabilities and confidence among them.

### **Use of Readers & Scribes for Exams:**

- I. The institution takes proactive steps to support disabled students during examinations in terms of easy identification of rooms and accessible
- II. . 2. The examination table arranges in the right size and height  
Arrangement of scribes for exams considering the nature of the disability.

### **Faculty Responsibility:**

- I . Faculty should implement best practices in teaching to reach learning among disabled.
2. Maintain the confidentiality of students who disclose their disability.
3. However, faculty members do have input and should work with students for their skill development.

  
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### **THE INSTITUTION HAS DISABLED-FRIEND BUILT ENVIRONMENT WITH RAMPS/LIFTS FOR EASY ACCESS TO CLASSROOMS:**

It has been felt that differently-abled persons need PETW arrangements in the PETW College premises for their mobility and independent functioning. PETW has architectural barrier free environment that disabled persons find easy for their day-to-day functioning. The college addresses the accessibility relevant issues as per the stipulations of the Persons with Disabilities Act 1995. All the existing infrastructure in the college is disabled-friendly and PETW ensures that the future construction will also be based on the principle of inclusion. The institute has PETW facilities such as Wheel chairs, Walkers, Lifts, Ramps, Hand Rails, PETW Toilets, and other necessary changes to meet the needs of differently-abled persons.

### **PHYSICAL FACILITIES:**

The classes for differently-abled students are conducted on the ground floor for their convenience. Mobility devices like Wheel Chairs and Walker are made available in major buildings.

  
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**THE INSTITUTION HAS DISABLED-FRIEND BUILT ENVIRONMENT WITH RAMPS/LIFTS FOR EASY ACCESS TO CLASSROOMS:**

Apart from stair access and lifts, PETW blocks are constructed with Ramps and Hand Rails as sloped pathways used to provide access to outside buildings. Ramps provide an alternative to stairs for wheelchair users, people with mobility issues and people with prams, bicycles and other wheeled items. Adequate space is allocated for persons using mobility devices, as well as those walking with the assistance of other persons.





 GPS Map Camera



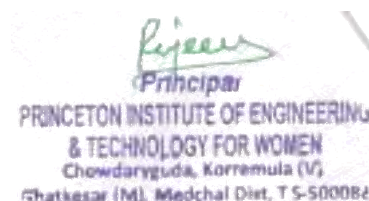
## Hyderabad, Telangana, India

Ug Block-Cs It & Eee, Princeton Institute Of Engineering,  
Pocharam, Hyderabad, Telangana 500088, India

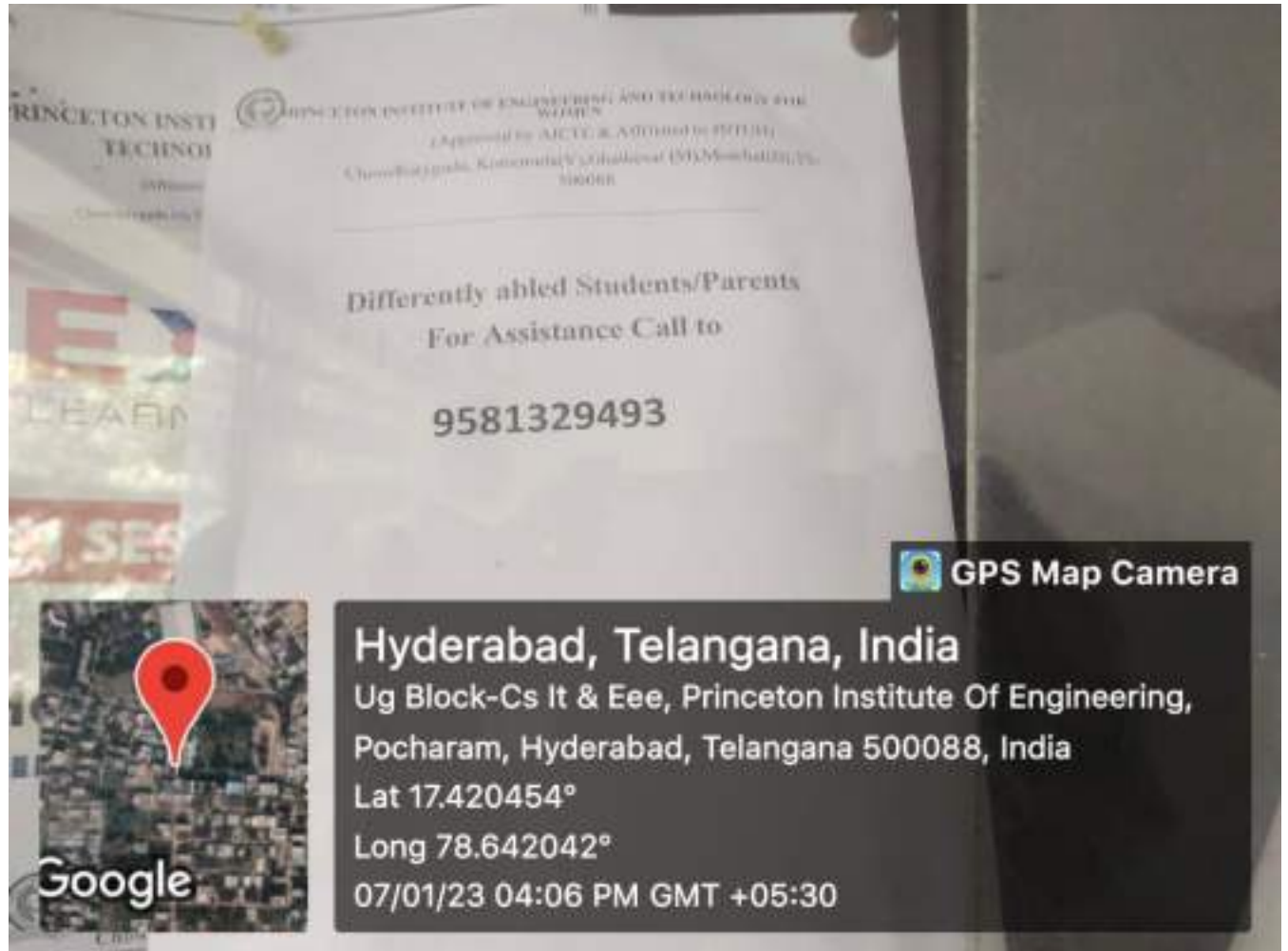
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Long 78.642214°

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## PROVISION FOR ENQUIRY AND INFORMATION:



PRINCETON INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN  
(Approved by AICTE & ADDED to ETEHR)  
Chowdaryguda, Korremula (V), Medchal (M), Medchal Dist, T-500088

Differently abled Students/Parents  
For Assistance Call to  
**9581329493**

GPS Map Camera

Hyderabad, Telangana, India  
Ug Block-Cs It & Eee, Princeton Institute Of Engineering,  
Pocharam, Hyderabad, Telangana 500088, India  
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Long 78.642042°  
07/01/23 04:06 PM GMT +05:30

Google

  
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## **SCRIBES FOR EXAMINATION:**

PETW provides scribes for differently-abled students if required during examinations. As per the JNTUH and AICTE rules of examinations.

**JNTUH:** Proceeding No. JNTUH/EB/11148/2/ Concessions extended to the Physically Challenged Students/2018.

**AICTE:** F.No.AICTE/e-Gov/230/2015-16- Disable friendly examination centre for candidates with disabilities – Order of Court of Chief Commissioner for Persons with Disabilities

