



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.

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7.1.2: The Institution has facilitated and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and Non-degradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

INDEX

2. Management of the various types of degradable and non - degradable waste

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1. SOLID WASTE MANAGEMENT

Data for solid waste management

S. No	Parameter	Remarks
1	Climate	Climatic features south west monsoon temperature: Max 36°, min 24°c temperature over the plains: Max: 42°c, min:26°c
2	Population	2666
3	Distance from major cities	32km from Visakhapatnam 22km from Vizianagaram
4	Total campus area	10.5 Acres
5	Transportation	Own transport, nearby bus stop and NH -16
6	Normal rainfall	28.41mm
7	Disposal / composing bin	2 composing bins, each one 5 feet height
8	No of dust bins provided in the campus	150 dustbins at every prominent corner of the college



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CURRENT WASTE ASSIGNMENT AND EXISTING SOLID WASTE MANAGEMENT SYSTEM IN THE AVANTHI CAMPUS

- a) Class Classrooms
- b) Office rooms
- c) Exam Examination cell
- d) Laboratories
- e) canteen
- f) Stores and stationary section
- g) Play ground
- h) washrooms
- i) Construction work
- j) Dining section
- k) Seminar halls /auditoriums

Collection:

- a. Dust bins are strategically placed in different areas such as classrooms, corridors, office rooms, laboratories, canteen, and stores.
- b. Separate containers for dry waste and wet waste are available in the canteen and throughout the entire campus.
- c. Push carts or dust bins are provided to collect various types of solid waste and other types of waste.
- d. The collected waste is then deposited at the composting unit.

Dustbins play a vital role in upholding cleanliness and fostering a wholesome environment within college campuses. They serve as a convenient and designated spot for students and staff to discard waste, thereby promoting hygiene and enhancing the overall appearance. Effective waste management not only prevents littering but also instills a sense of responsibility among the campus community.

Quantity of solid waste:

In the campus, we have numerous facilities such as classroom slabs, office rooms, exam cells, stores, seminar halls, and a canteen. Consequently, various types of solid waste, including waste papers, vapors, records, debris, organic waste, and inorganic waste, are collected on a daily basis. On average, we receive 15kg of solid waste per day from different sources. To manage this waste effectively, a waste management system is implemented in the college. Throughout the campus, designated bins



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or containers are placed for students and staff to dispose of their waste. The sources of solid waste in a college can include classrooms, cafeterias, dormitories, and administrative areas. It is crucial for everyone in the college community to take responsibility and segregate their waste properly to ensure efficient waste management.




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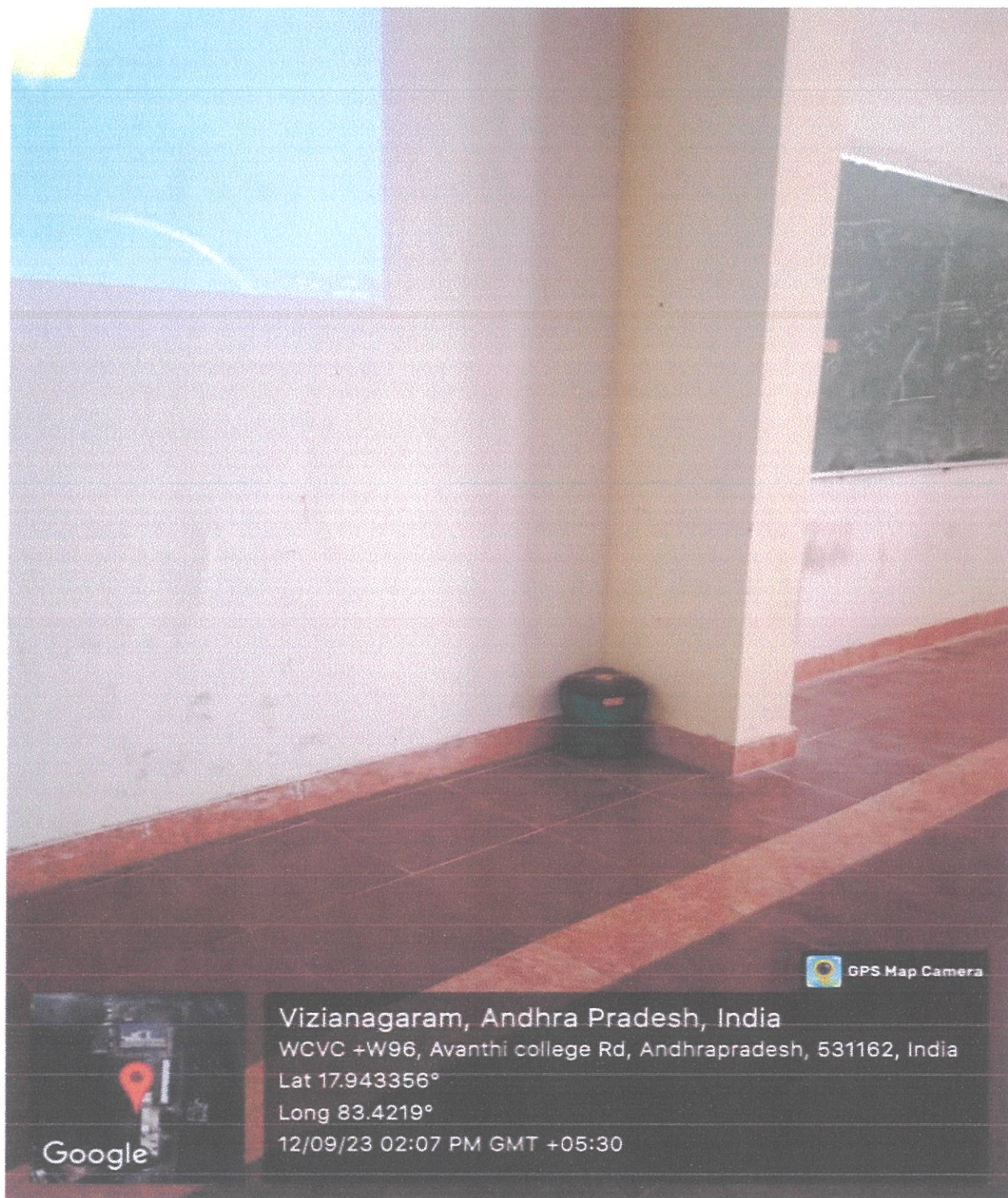
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AIPS classroom is equipped with a dust bin.



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Dust bin in the pharmacology lab at Pharm.D facility in the AIPS Campus



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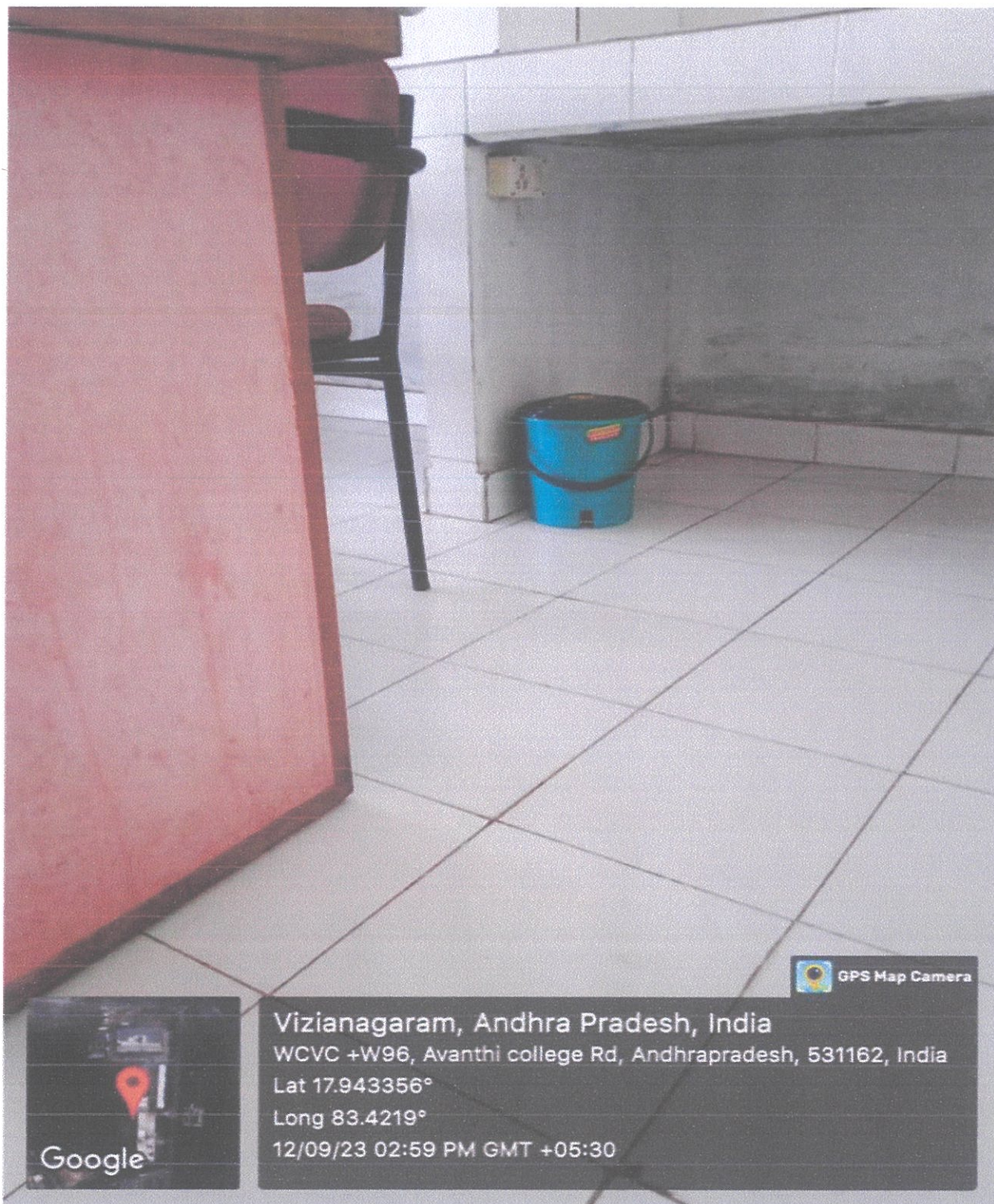
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WCVC +W96, Avanthi college Rd, Andhrapradesh, 531162, India

Lat 17.943356°

Long 83.4219°

12/09/23 02:59 PM GMT +05:30

Dust bin positioned in the room of the esteemed HOD of the Pharm.D department in the AIPS campus



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Dust bin available at B-pharmacy class room in AIPS campus



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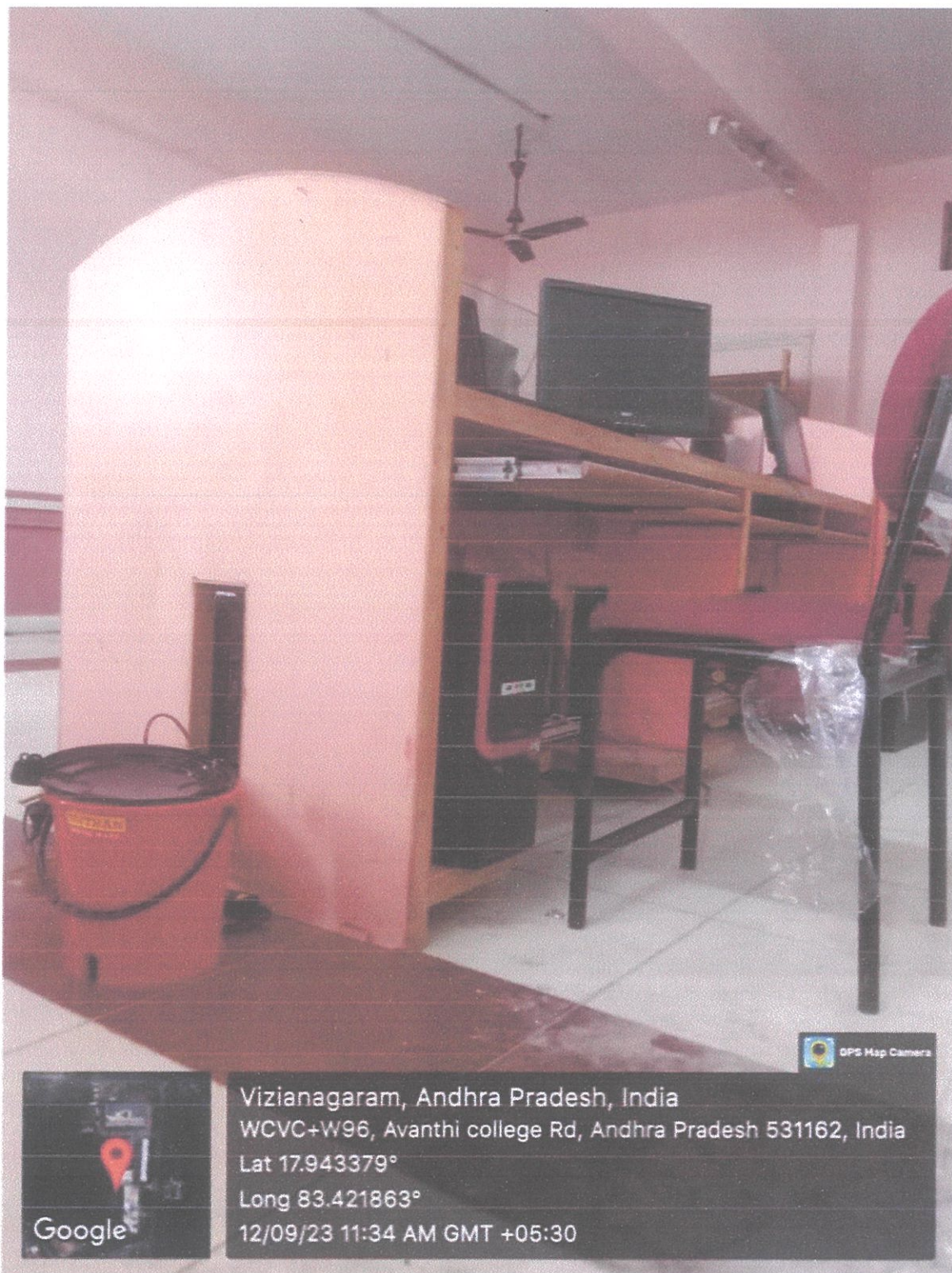


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Computer lab in the AIPS campus equipped with a dust bin in place



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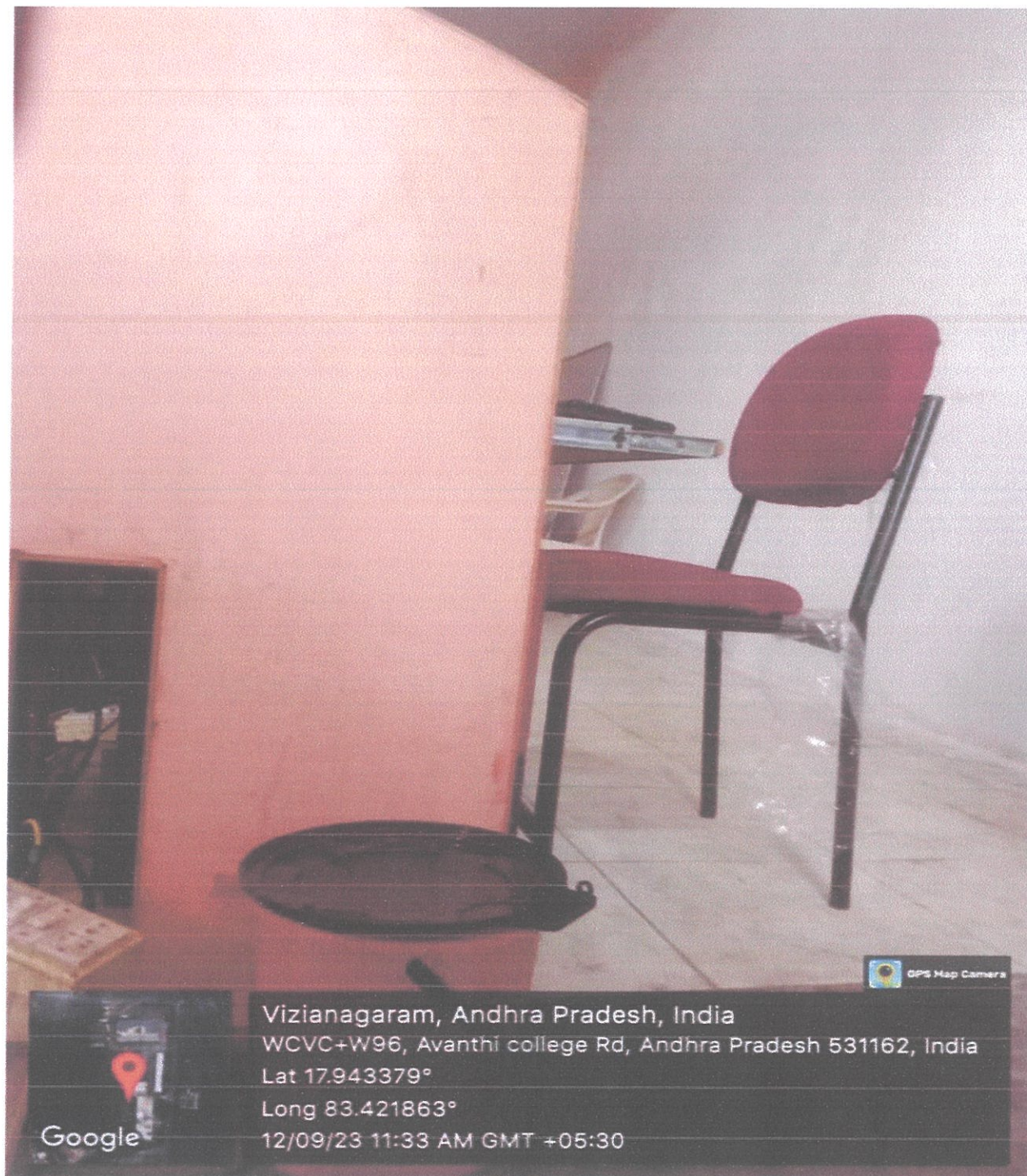


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Dust bin located at the AIPS campus library




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Dust bin placed at AIPS Library



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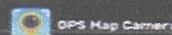
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Dust bins at pharmacy canteen



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Separating dry waste and wet waste:

Dry waste typically consists of items such as paper, plastic, glass, and metal, while wet waste primarily includes organic materials like food scraps and kitchen waste. The appropriate segregation and disposal of these waste types play a significant role in promoting effective recycling and environmental sustainability.

Dry waste encompasses a wide range of materials, including paper, cardboard, plastic, glass, metal, electronic waste (e-waste), textiles, and certain types of packaging. These materials are usually collected and sent to recycling facilities. By separating them, we can facilitate recycling processes and reduce the amount of waste that ends up in landfills.

Wet waste, on the other hand, consists of food scraps, kitchen waste, garden waste, biodegradable items, and other organic materials. Typically, wet waste is sent for composting or anaerobic digestion. Composting involves transforming organic waste into nutrient-rich compost, while anaerobic digestion breaks down organic matter to produce biogas and fertilizer.




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Pharmacy block equipped with dry waste bins.

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Wet waste dustbins at the entrance gate of the pharmacy block



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STORAGE OF SOLID WASTE

In a pharmacy college , storing solid waste properly is essential for maintaining cleanliness and hygiene. Here are a few tips on how we, as a pharmacy management, should store solid waste effectively:

1. We should use designated bins for different types of waste, such as recyclables, non-recyclables, and organic waste. This helps with proper waste segregation in our pharmacy.
2. We should secure lids to ensure that the waste bins in our pharmacy have secure lids to prevent odors, pests, and littering.
3. We should schedule regular waste collection and disposal in our pharmacy to prevent overflowing bins and maintain a clean environment.
4. We should clearly label the bins in our pharmacy to indicate the type of waste that should be disposed of in each one. This helps in proper waste segregation.
5. We should allocate sufficient space for waste storage in our pharmacy to accommodate the volume of waste generated.



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Paper retrieval center at AIPS campus



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A facility for sorting and recycling plastic waste at AIPS campus




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BURNING THE WASTE

A minimal amount of solid waste is being collected from various locations on the campus, resulting in a limited bulk quantity. This waste is then burned daily before 5 p.m., with the process being carried out swiftly and efficiently twice a day.



**Composing unit area is made up of two dust bins, each having a volume of 5 square feet at
AIPS campus**




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2. LIQUID WASTE MANAGEMENT

The most effective method of generating water in the sanitary facilities is by collecting it in septic tanks located throughout the campus. These septic tanks are strategically placed to ensure easy access and efficient collection of waste water from various buildings and facilities. The waste from these tanks is carefully managed and treated to ensure proper disposal and minimize any negative impact on the environment.

To further enhance the water generation process, the waste from the septic tanks is mixed with canteen waste. This combination not only helps in breaking down the waste more effectively but also adds nutrients to the mixture, making it suitable for various purposes.

The mixture is then stored underground in specially designed storage tanks, ensuring a controlled environment for the wastewater.

The stored wastewater is primarily used for maintaining the campus's greenery. A well-planned drainage system is in place for all campus buildings, which ensures that excess water is properly disposed of and does not cause any flooding or waterlogging issues. The water obtained from this system is directed towards a dryness system, where it undergoes further treatment to remove any impurities and make it suitable for various non-potable uses.

Additionally, the wastewater from the plants on campus is mixed with the canteen wastewater. This mixture is then utilized for watering trees and gardening purposes. By reusing the wastewater in this manner, the campus not only conserves water but also ensures that the plants receive the necessary nutrients for their growth and development.

Overall, this comprehensive water generation and management system in the sanitary facilities of the campus not only ensures a sustainable water supply but also promotes environmental conservation and responsible waste management.

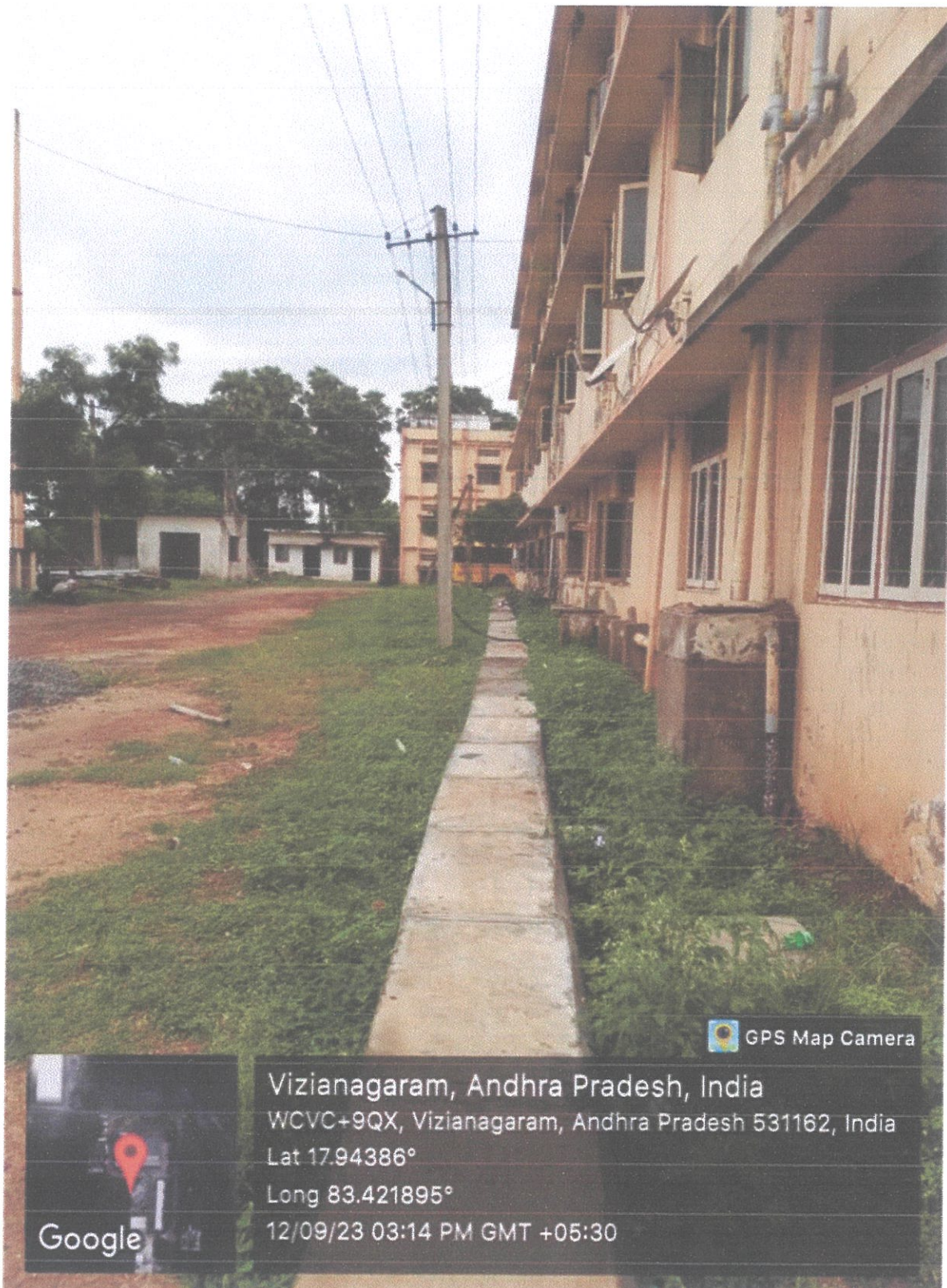



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Drainage infrastructure for waste water at AIPS campus



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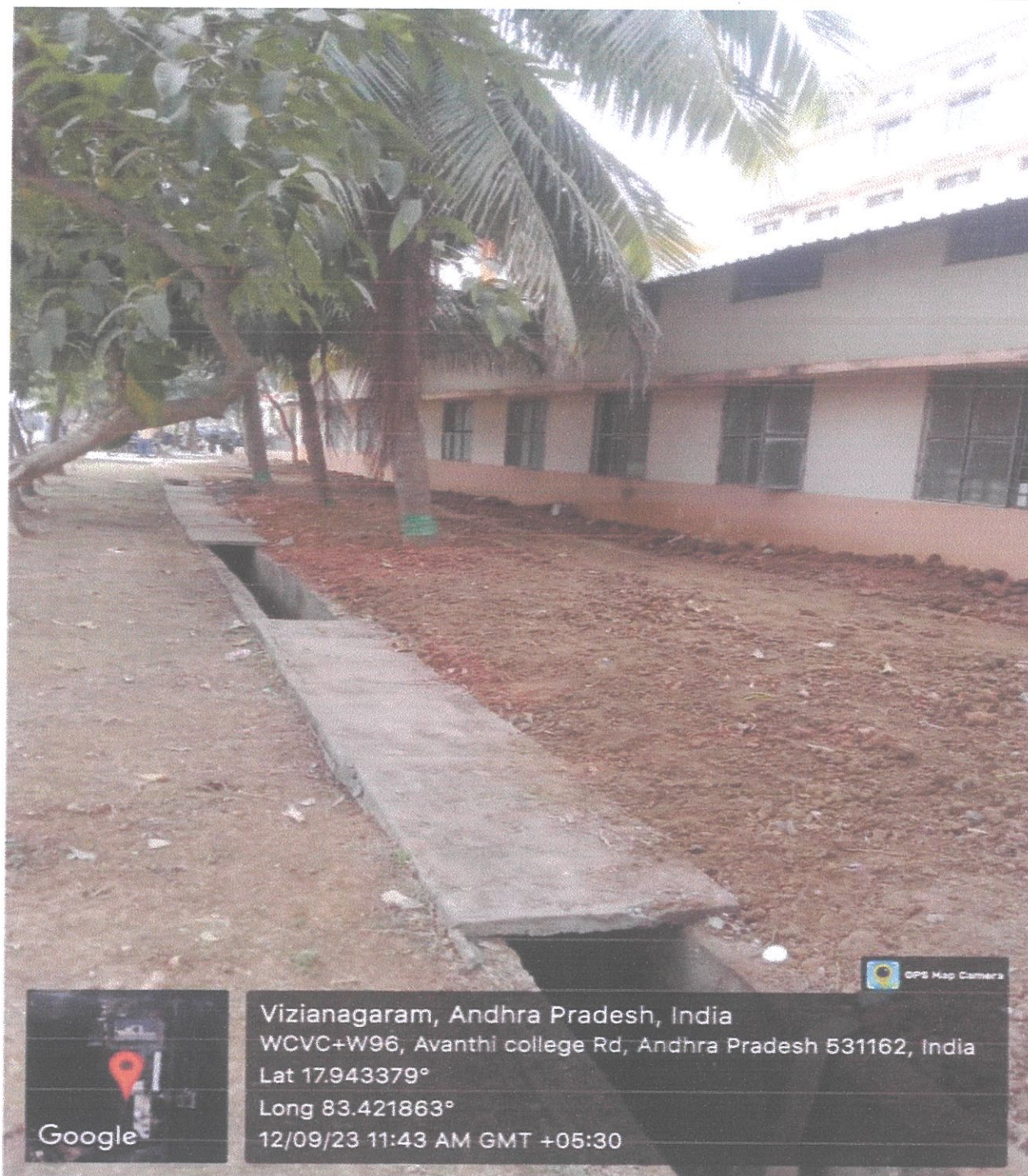
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Network for channeling water away at AIPS campus




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3. E-WASTE MANAGEMENT:

Salient features of AIPS

SNo	Parameters	Availability
1	No of computer laboratories	3
2	No of computer systems	155
3	No of AC's	5
4	RAM	8GB - 100
5	ROM	4GB - 50
6	Graphic card	60
7	No of projectors	12
8	No of tube lights	150
9	No of LED's	301
10	No of FAN's	113
11	No of TV's	0
12	No of CC cams	47
13	UPS	5
14	No of printers	3
15	No of xerox machines	2
16	No of smart boards	2




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Sources of E-Waste (Electrical, Electronics, Equipment & other sources of wastes)

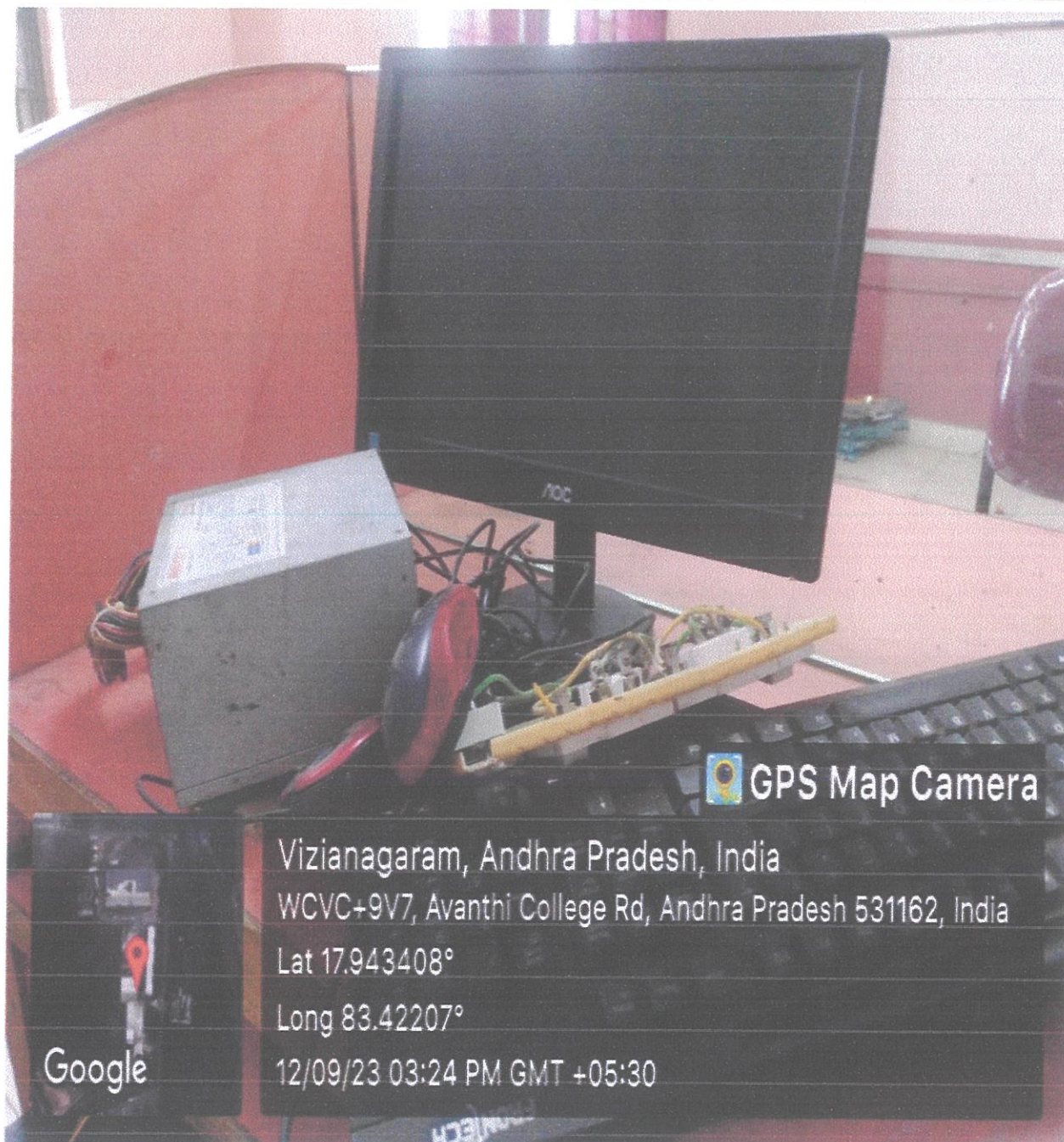
- a) Computer labs, Printers
- b) Office section Records
- c) Examination cell
- d) Electrical Labs
- e) Electronics Labs
- f) Power grid/powerhouse
- g) Class rooms
- h) Rest rooms
- i) Printers
- j) Records

Innovative technology can be purchased. The remaining E-waste materials are recycled and reused appropriately for construction purposes. Awareness programs on e-waste management are initiated to ensure proper disposal by reliable vendors.




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Unused computers and other electronic waste at AIPS campus




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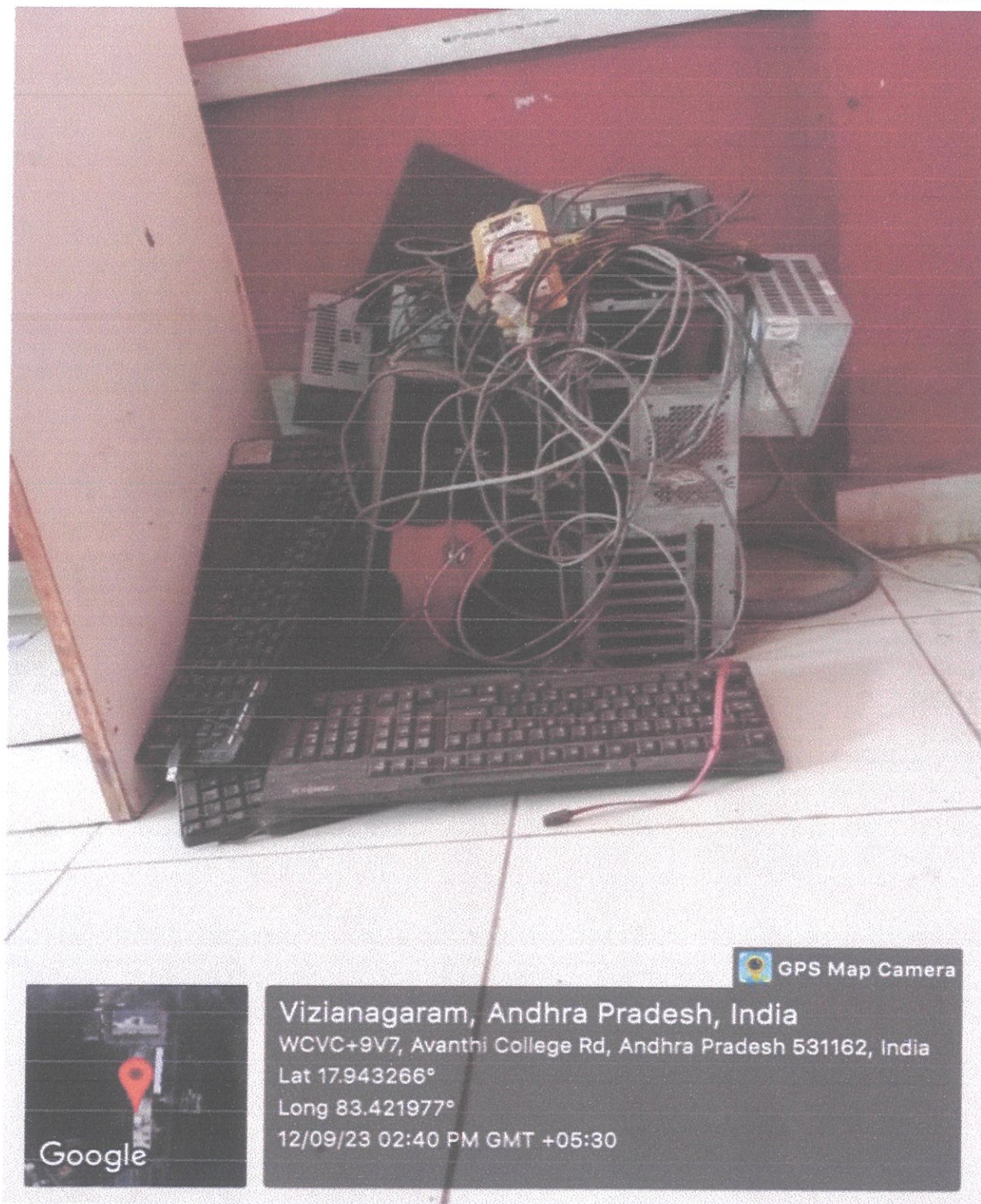


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E – waste from computer lab at AIPS campus



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Electronic waste obtained from computer lab at AIPS campus



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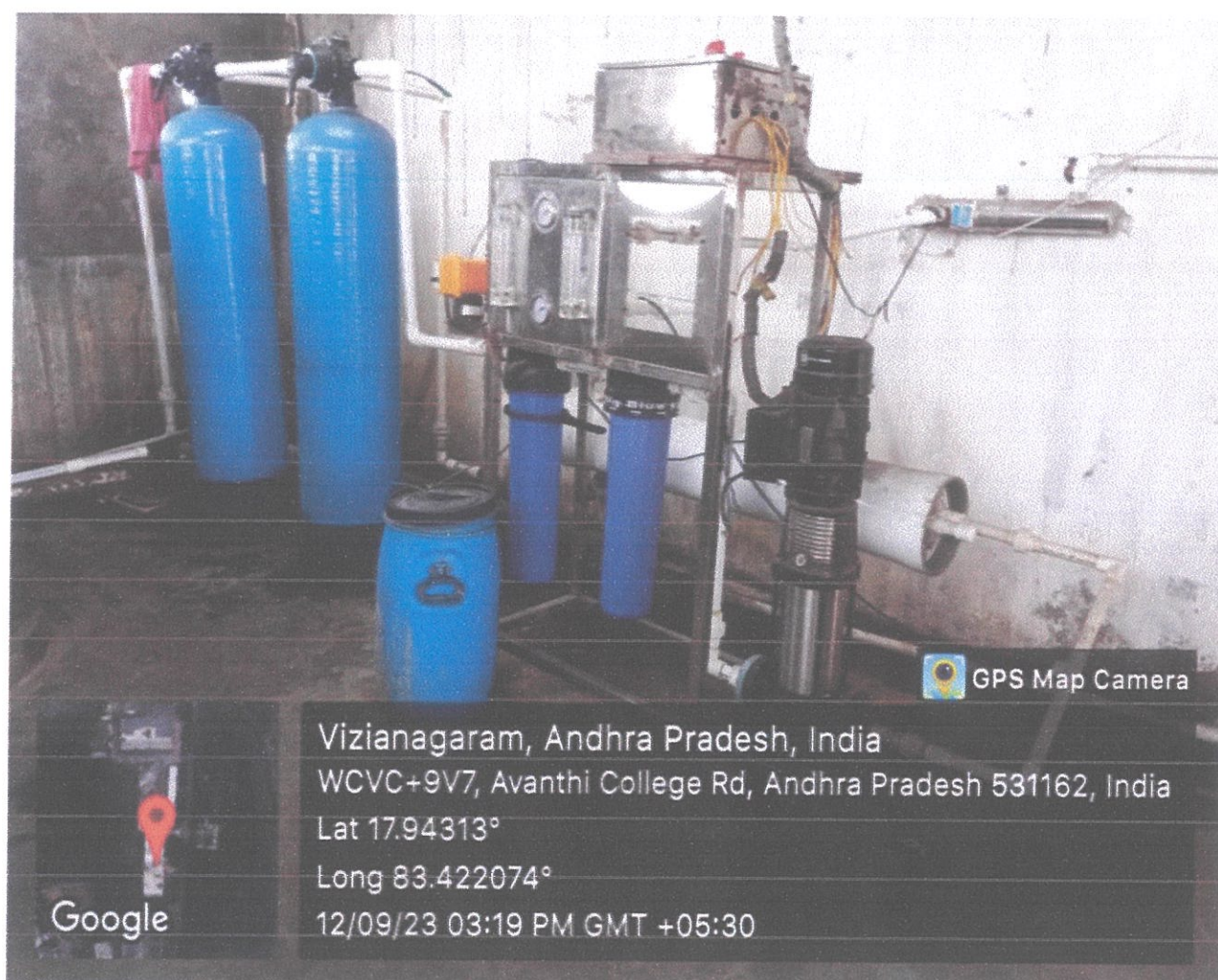
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4. SEWAGE WATER TREATMENT PLANT:

Our college operates a sewage water treatment plant that includes a reverse osmosis facility for recycling water. Reverse osmosis is a method of extracting clean water from polluted or salt water by applying pressure to push water through a membrane. The water sourced from borewells undergoes treatment through the reverse osmosis process at the plant. The resulting clean water is utilized for drinking purposes, while the waste water from the RO (purification)process is used for gardening. The purified water is stored in a tank.



Sewage water treatment facility at AIPS campus



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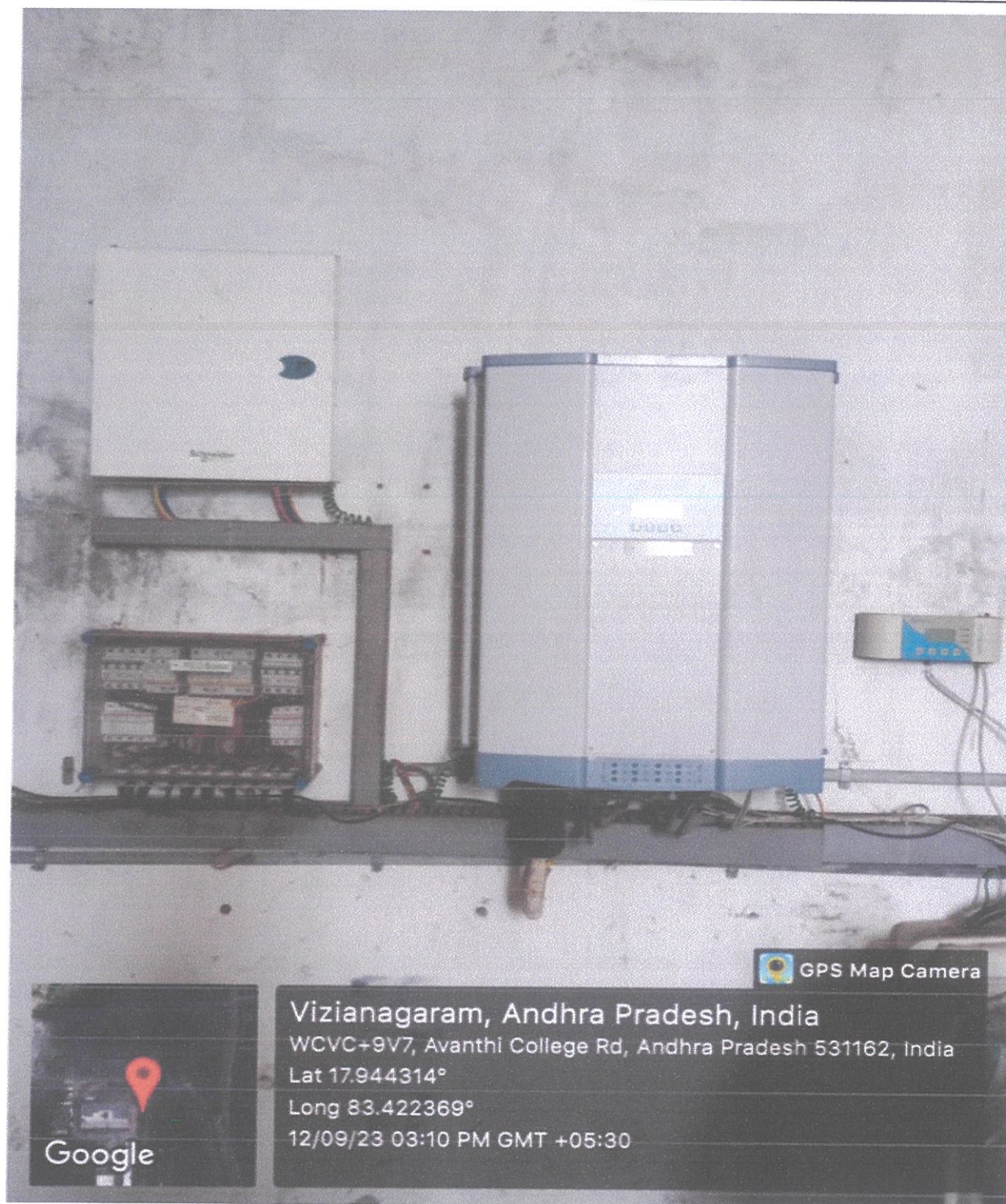


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GPS Map Camera

Google

Vizianagaram, Andhra Pradesh, India

WCVC+9V7, Avanthi College Rd, Andhra Pradesh 531162, India

Lat 17.944314°

Long 83.422369°

12/09/23 03:10 PM GMT +05:30

Top of the pharmacy block equipped with control panel for the Reverse Osmosis (RO) system



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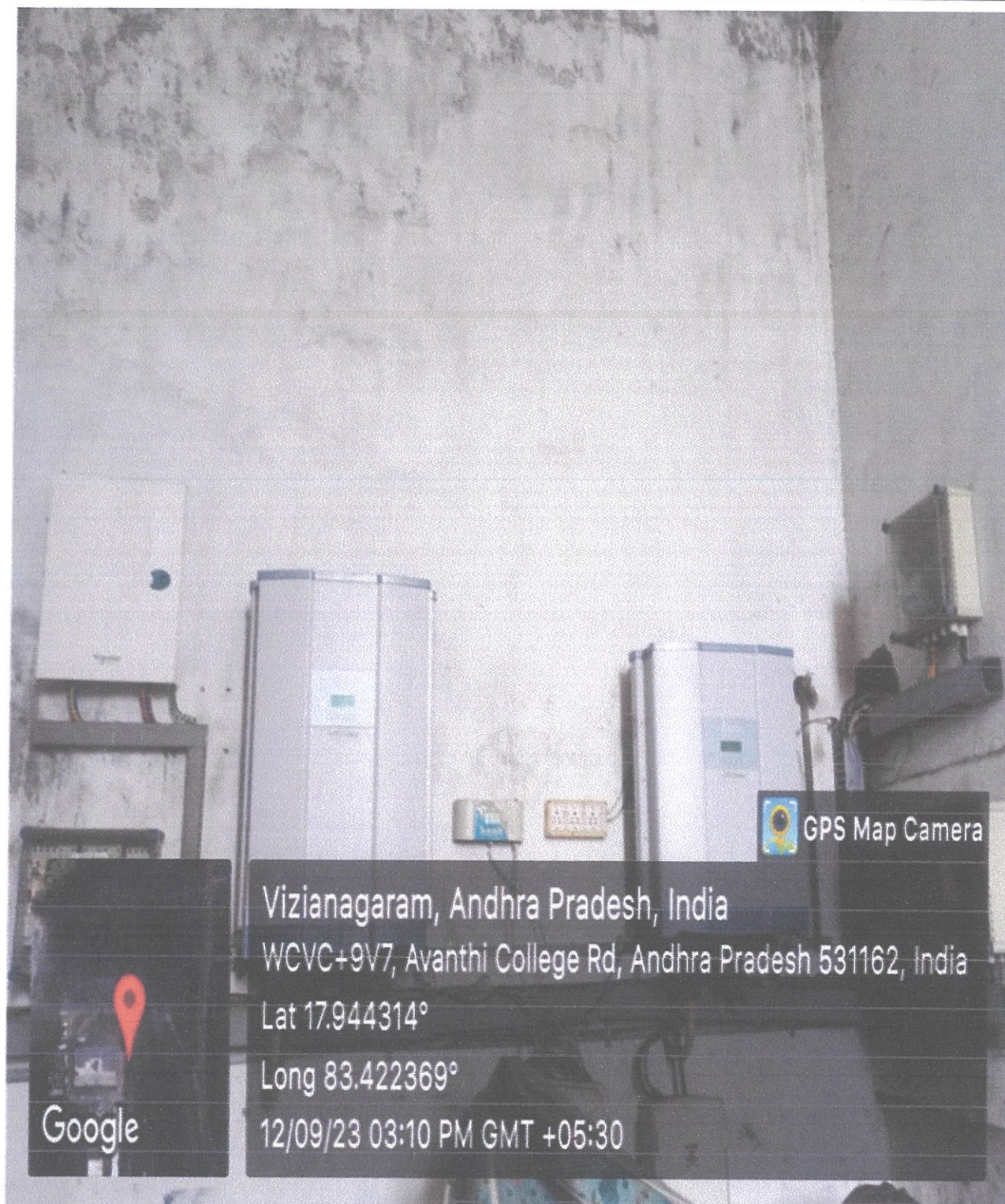


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RO System control panel at AIPS campus

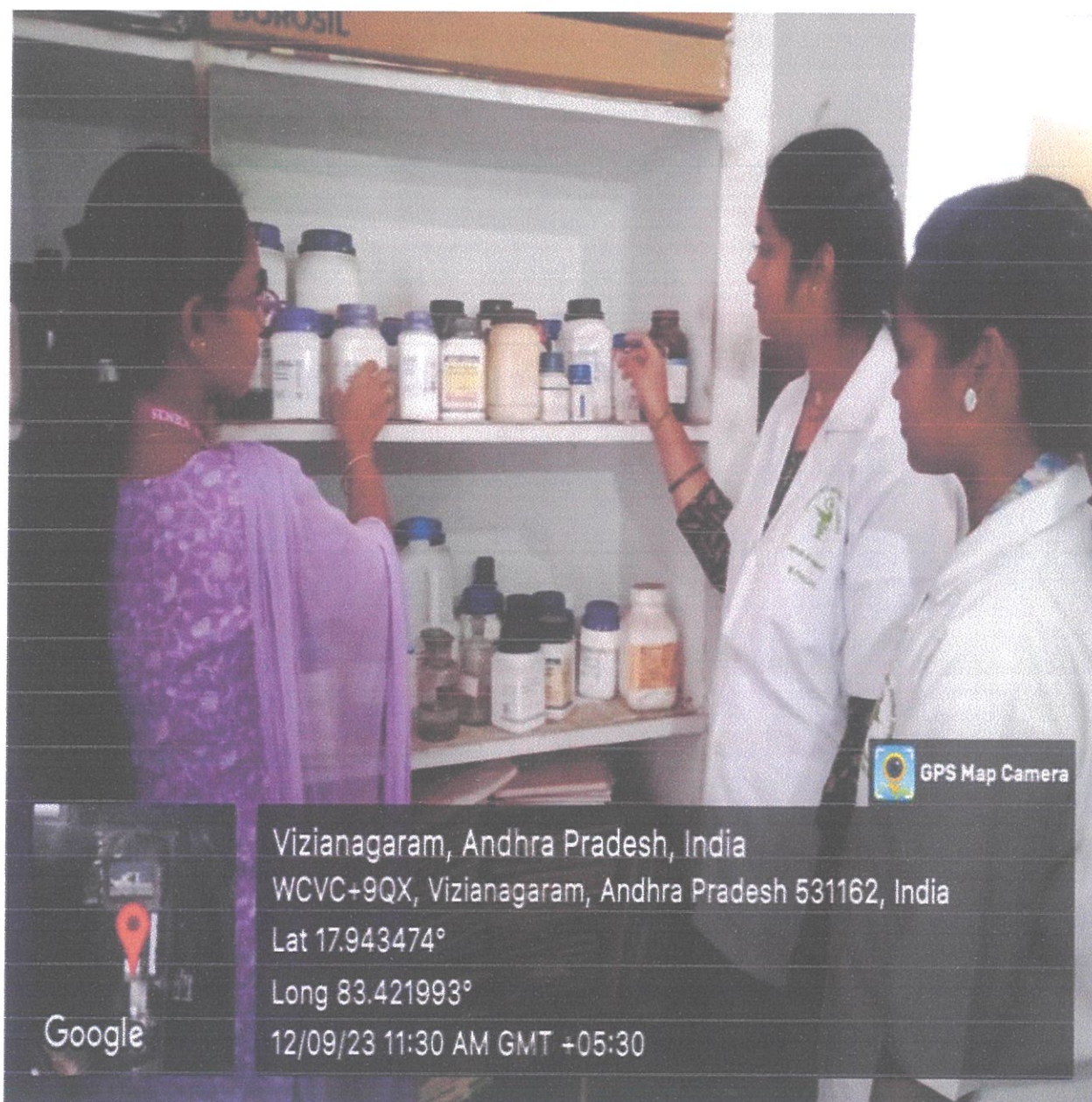



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5. Hazardous chemicals and radioactive waste management

We strictly follow safety protocols while dealing with hazardous chemicals and radioactive materials. because it is crucial to establish appropriate storage, labeling, and disposal methods. Adhering to regulatory guidelines and providing sufficient training to personnel is imperative. Regular monitoring of radiation levels and implementing necessary shielding measures are crucial for radioactive materials. The outmost priority should always be given to safety and compliance in order to minimize potential risks.



Handling and control of hazardous chemicals and radioactive waste at AIPS campus




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6. Waste recycling system:

A waste management system encompasses various methods and strategies to handle waste effectively and reduce its negative impact on the environment. It involves collecting waste in an organized manner, treating it to minimize harm, promoting reuse, and sorting and processing materials for recycling or reuse. The goal is to minimize the amount of waste sent to landfills and remote sustainable practices.




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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made and executed on 10th August 2020 at Visakhapatnam.

BY AND BETWEEN

Avanathi institute of pharmaceutical science vizianagaram, represented by Who is duly authorized to sign and execute the M.O.U.
Being the First Part

AND

Suraj Krishna Greenaries, an authorized agency of ITC having its principal office situated at D.NO-37/1052-AJ, Nehru Nagar, Kothapeta-516002. Ph:8309657266 and Represented by Mr. K.RamaChandraiah, Managing Partner referred as "Suraj Krishna"

Being the Second Part

Whereas Avanathi Institute of pharmaceutical science has agreed to collect and give away the dry recyclable waste including any kind of paper waste and old records generated in its college and form Swachh WOW Andhra Pradesh Chapter.

1. NOW THIS MOU WITNESSETH AS UNDER:

This is an agreement for a synergic alliance between Avanathi Institute of pharmaceutical science and Suraj Krishna Greenaries for the social cause of recycling of Dry Waste and Environment Protection through recycling.

2. Time period: This MOU shall be for a period of one year commencing from the date of signing of this MOU.

3. Roles and Responsibilities of Avanathi Institute of pharmaceutical science:

a. To ensure source segregation of dry and wet waste at College premise through its Teaching staff, housekeeping staff and Students.

b. Avanathi pharmaceutical will give away any kind of paper waste, dry recyclable waste and old records to Suraj Krishna Greenaries at price agreed mutually. Suraj Krishna will pay as below rate White paper & News Paper: Rs.9/kg




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Atta:Rs.3/Kg

Carton Boxes:Rs.7/kg

Hard Plastic(Pipes, Chairs, White drink bottles):Rs.10/kg

Color Drinking bottles:Rs.3/kg

Low grade plastic:Rs.2/kg

Iron:Rs.12/Kg.

- c. Avanathi pharmaceutical shall form Swachh WOW Andhra Pradesh Chapter in the college with Student Volunteers and adopt nearby Schools or Colonies to promote Source Segregation through student volunteers.
- d. Avanathi pharmaceutical shall provide students for Internship in WOW Program.
- e. Avanathi pharmaceutical shall motivate students to bring dry recyclables like paper, plastic, metal etc. from their home and donate to WOW initiative.
- f. Avanathi pharmaceutical will put up color-coded bins for waste segregation at different points in College premises.

4. Roles and Responsibilities of Suraj Krishna Greenaries:

- a. ITC-AGS will train the students and housekeeping staff on source segregation and through them inculcate the habit of source segregation among the other students.
- b. Suraj Krishna Greenaries will collect dry recyclable waste and old records from Avanathi pharmaceutical and bring to the Dry Resource Collection Centre (DRCC) without any spillage.
- c. Suraj Krishna Greenaries will organize sorting of the dry waste into different categories, baling, and appropriate disposal of dry waste.
- d. Suraj Krishna Greenaries shall coordinate with ITC and undertake necessary measures for dispatch of the sorted recyclables for recycling at its own cost.
- e. Suraj Krishna Greenaries will make payment to Avanthipharma directly into their accounts for the dry recyclable waste collected against the accurate weighment and the type or category of the dry waste. The payment shall be made no later than 15 days from the date of purchase of dry waste from the waste collector. Franchisee on the request of Avanathi Institute of pharmaceutical may give New Notebooks and Stationery against the value of dry recyclable waste lifted.




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5. Performance of Obligations

- The details laid out in this MOU, notwithstanding the essence and spirit of this MOU is an understanding between Avanthipharma and Suraj Krishna Greenaries.
- Any notice or other communication under or in connection with this agreement shall be in writing in the English language and shall be delivered personally or sent by way of e-mail to the party due to receive the notice or communication at its address set out in this contract or such other address as either party may specify by notice in writing to other.

ADDRESS FOR COMMUNICATION:

Following are the address to which all notices shall be sent:

For Suraj Krishna Greenaries:

D.NO-37/1052-AI,

Nehru Nagar

Kadapa-516002

Ph:8309657266

Avanathi Institute of pharmaceutical science:

Cherukupally (v), Bhogapuram (m), Vizianagaram Dist.

6. Execution of this Agreement shall be deemed to be

- A confirmation by both the parties that no benefit, either in cash or kind has been provided by either party to the other party or to any officer or employee, or any relative/ associate of any officer or employee of either party or of any of their associate institutions/companies in order to enter into this Agreement, and
- An undertaking by both the parties not to provide any benefit, either in cash or kind to any officer/employee/relative/associate of any officer or employee of either party as reward or consideration either for entering into this MOU or other matter relating to this Agreement.

7. Other Terms:

Force Majeure: Neither party shall be liable for damages for any delay or failure to perform its obligations here under, if such delay or failure is due to reasons beyond the control of the concerned party including without limitation, strikes, riots, wars, fires, epidemics, quarantine restrictions, unusually severe weather, earth quakes, explosions,



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acts of God or state or any public enemy or acts mandated by applicable laws, regulation or order, whether valid or invalid, of any Governmental body.

8. **Dispute Resolution:** It is understood by both the parties that this Agreement is for a social cause and not to make any profit out of the understanding. The Parties covenant that they will comply with all applicable laws and regulations in their conduct pursuant to this Agreement. Any dispute arising out of this Agreement shall be first attempted to settle amicably between the parties.

9. **Arbitration**

Any dispute which is not resolved amicably shall be finally settled by binding arbitration in respect to the matters concerning to the MOU with the Sole Arbitrator to be appointed by the mutual consent of both the parties. The Parties agree that the decision or award resulting from arbitration shall be final and binding upon the Parties.

Pending the submission of and/or decision on a dispute, the Parties shall continue to perform their respective obligations under this Agreement without prejudice to a final adjustment in accordance with such arbitration award.

10. **Governing and Jurisdiction:**

This Agreement is subjected to the Jurisdiction of Courts at Hyderabad. The parties shall agree that it will not make use of, disseminate, or in any way disclose any confidential information to any person, firm or business. Furthermore, the existence of any discussions, negotiations or agreements in progress between the parties shall not be released to any form of public media without written approval of both parties.

11. **Amendments**

This Agreement and the Schedules together constitute a complete and exclusive understanding of the terms of the Agreement between the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by all the Parties hereto and evidenced in writing.

12. **NOTICE /Termination**

Any notice required to be given hereunder shall be given in writing at the address of each party set forth as below in this agreement or to such other address either party may substitute by written notice to the other. Either party may terminate this Agreement by giving 30 days written notice to the other party.




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In witness whereof the parties hereto have signed this agreement on the day, month and year mentioned hereinbefore.

For Avanathi Institute of pharmaceutical science and for Suraj Krishna Greenaries

Witness:

1.

2.

Mrs. K Ruma

Managing Partner

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DISPOSAL OF SOLID WASTE

This is certify that solid waste of all sorts is collected from the Avanathi Institute of Pharmaceutical Sciences by GVMC Bheemili on daily bases and sent to Jindal Urban Waste Management Plant at Kapuluppada, Bheemili. The waste is converted to energy in the plant. The nature of waste that would be collected from the premises is as follows,

- Food waste
- Bio- degradable waste.
- Glass waste
- Garbage

These waste materials are collected from Avanathi Institute of Pharmaceutical Sciences and daily at the request of the Administration officer - Maintenance of the college.

B. Pruthi 21/8/23
SER-1 - 24
Sanitary Inspector
GVMC ZONE I
Bheemunipatnam




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Certificate of Recycling

GreenWaves Environmental Solutions

Reference GWES0217019
Authorisation 2/APPCB/E-Waste/2016

**AVANTHI INSTITUTE OF PHARMACEUTICAL
SCIENCES, CHERIKUPALLY (V)
BHOGAPURAM (M), VIZIANAGRA-531162**

Organisation Name

GreenWaves Environmental Solutions Would like to thank and present this certificate for recycling obsolete electronic waste.

E Waste: 2500 kgs

Weight:

Date: 26-09-2022

All The Material has been collected and handled in an environment friendly manner, in accordance with the guidelines set by the Central Pollution Control Board. We encourage you to continue the support for E-Waste management in environmentally friendly manner

**Potluri Anil Chowdary
Managing Director
GreenWaves Environmental Solutions**



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DIVYANJAN POLICY AND INITIATIVES UNDERTAKEN

Dt: 05-09-2018

The purpose of this policy document is to present a comprehensive strategy and commitment towards inclusivity accessibility and support for individuals with disabilities known as divyangjan. It aims to ensure equal opportunities, discrimination and full participation for individuals with diverse abilities in all aspects of life

Policy Objectives:

1. The main goal of this policy is to promote an inclusive culture that prevents discrimination, exploitation, and exclusion of disabled students and staff in all aspects of work and education
2. Another objective is to establish an effective regulatory mechanism that ensures the delivery of service to disabled students and staff within the institution.
3. Additionally, this policy aims to ensure compliance with legislation related to persons with disabilities

Admission Policy for individuals with disabilities:

1. Following the guidelines provided by AIPS University all reserved seats for individual with disabilities in all programs will be filled
2. The institution is committed to providing all Facilities, recommend by AIPS University to individuals with disabilities

Exam Policy:

1. The institute will make necessary arrangements to unable students with disabilities to actively participate in examinations
2. The examination procedure will adhere to the guidelines issued by JNTUK Kakinada provisions for extra time and the allocation of scribes.

Facilities and Initiatives Undertaken:

The Institute has implemented various infrastructure facilities to support individuals with disabilities such as ramps, wheelchairs, blind sticks, scribes for examination and disabled friendly washroom. Additionally there is an inbuilt software system in MS office called "Read to text and text to Read specifically designed for certain individuals with disabilities. special training is also provided to students who require it. Currently there are no students with disabilities on campus. However, if any are admitted in the future, the institute will ensure the provision of necessary facilities

The Divyangjan policy was adapted on september 5th 2018, at Avanathi Institute of pharmaceutical sciences, Tagarapuvalasa.



[Signature]
Principal

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Avanathi Institute of Pharmaceutical Sciences

[Signature]
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