



Dr. V.S.KRISHNA GOVERNMENT DEGREE COLLEGE (A)

Affiliated to Andhra University

District Resource Centre & Centre for Research Studies
Maddilapalem, VISAKHAPATNAM-530013, Andhra Pradesh



ESTABLISHED SYSTEMS AND PROCEDURES FOR MAINTENANCE

- The Laboratories before discarding microbial plates/cotton plugs/ glassware after practicals are autoclaved and discarded or the material is incinerated.
- The Laboratories involve using cotton and syringes to collect blood samples for cholesterol estimation and so on. All medical waste will be collected, tightly packed, and disposed of in the garbage.
- The laboratories practice to maintain the green lab are to ensure proper disposal separate bins are kept for used glass material, paper and plant material. Periodical defrosting the refrigerator to minimise the chemical waste and preserved plant material. Plant waste material is used to generate green manure. Collected plastic waste is regularly given for recycling as department -signed MoU with GVMC, Visakhapatnam.
- The Laboratories before discharge waste chemicals from the laboratory, neutralize and reduce the hazardous nature of chemicals. For those which can not be neutralise, that chemicals are dumped in sand containers. That containers are buried in underground.
- The Laboratories are practicing to use soft copies to store all the departmental data rather using hard copies, by which paper is saved. This department involves culture and disposal of microorganisms.
- The Department of Computer Science is practising to use soft copies to store all the departmental data rather using hard copies, by which paper is saved.
- The department of zoology faculty involves to disposal of unwanted decolouration Formaldehyde in Specimen Jars and dissected organisms buried in scientific method. It is not hazards to other organisms in future. Green Practices awareness camps conducted in society also.
- Daily sweeping and cleaning practices are done. Plastic waste, solid waste managements are a regular practices. DUST BINS provided all over the campus. Awareness posters are erected all over the campus.
- Incinerator machines are provided in the Girl's toilets.
- Green campus is the moto of the college.


PRINCIPAL
Dr. V.S. Krishna Govt. Degree College (A)
VISAKHAPATNAM



DEPARTMENT OF CHEMISTRY
Dr. V S KRISHNA GOVT. DEGREE & PG COLLEGE(A)
VISAKHAPATNAM



DOs ✓

- Do wear appropriate safety attire when in the lab - safety goggles, lab coat, etc.
- Do maintain good lab cleanliness
- Before starting Laboratory work follow all written and verbal instructions carefully.
- Before use equipment must be read carefully Labels and instructions.
- Label all chemicals and close the containers tightly.
- Select glassware material depending on the type of work.
- Apparatus and reagents should have fixed places.
- Use wire mesh to heat the glassware with the chemicals.
- Store and dispose of waste solvent separately
- While disposing of chemicals in the sink, dilute them first.
- Mix chemicals slowly with stirring.

DON'Ts ✗

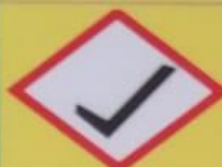
- Do not eat or drink in the lab
- Don't use cracked, chipped glassware
- Don't store incompatible chemicals together
- Don't heat glassware on a naked flame
- Don't transfer used chemicals back into the primary container
- Don't start work without proper clamping the apparatus
- Don't lean over the workbench or other reaction vessel.
- Don't siphon chemicals with the mouth for transferring from one container to another.
- Don't handle volatile solvent near an open flame or electric hot plate.
- Don't dispose of leftover samples in the normal washbasin.
- Don't add water to concentrated acids.



DEPARTMENT OF CHEMISTRY
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CHEMISTRY LABORATORY - SAFETY SYMBOLS



LOW HAZARD

Chemicals are relatively easy to handle but excess of every chemical can be hazardous to life.



HARMFUL / IRRITANT

Chemicals that can cause inflammation (redness, pain, swelling) of living tissues.



TOXIC

Chemicals can damage an exposed part of the body.



FLAMMABLE

Chemicals that catch fire easily under a given set of conditions must therefore be used with utmost care.



CARCINOGENIC

Cancer-causing chemicals can readily enter human tissues and seriously disturb the body's complex processes.



OXIDISING

Chemicals may lead to highly exothermic reactions when they are in contact with other chemicals, particularly flammable ones.



DANGEROUS WHEN WET

Chemicals that react violently with water (or any other liquid). Use them under anhydrous conditions.



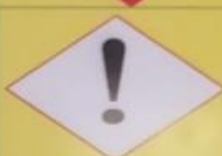
GASES UNDER PRESSURE

Chemicals are gases stored under high pressure.



EXPLOSIVE

Chemicals that can cause an explosion, therefore be handled carefully.



NOT SAFE/ DANGER

An immediate skin, eye, or respiratory tract irritant.



CORROSIVE

Highly reactive chemicals that damage human tissue. Wear gloves while handling them.



LACHRYMATORY

Tear-causing chemicals. Wear safety glasses and maintain a suitable distance from the chemical.



DANGEROUS TO ENVIRONMENT

Chemicals that are dangerous to life. They should not be thrown in the laboratory sinks and bins without permission.



RADIOACTIVE

Radioactive chemicals can be fatal to life even if used in minute quantities.

Think safety first before starting any laboratory work



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 Madhupalem, VISAKHAPATNAM 530 013, Andhra Pradesh.



DO'S AND DON'TS



**Put-on Apron
before
entering the
Lab**



**Donot Begin Lab
Work Until You are
instructed to do so**



**Be Familiar with
the Experiments
before Coming to
the Lab**



**Do Not Perform
unauthorized
Experiments in
Laboratory**



**Follow Lab
Instruction
Carefully**



**Do Not touch your
Face when working
with Chemicals**



**Read the Lables
on Reagent
Bottles for Safety**



**Do Not Leave a
Bunsen Burner &
other Flame sources
unattended**



**Keep Your
Work Area
Neat, Clean &
Organized**



**Do Not light a
Flame Source near
a Flammable
Material**

DEPT OF ZOOLOGY



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DO'S AND DON'TS



**Be Cautious While
working with
Scalpels, Knives &
other Sharp Objects**



**Do Not Taste / Ingest
or Taste any
Chemicals or
preserved specimens**



**Discard Cracked
and Broken
Glasses in the
Dust Bin**



**Don't say NO
all the time**



**Handle Specimens,
Slides & Expensive
Equipment
Carefully**



**Don't
compare and
criticize**



**Seek First Aid
Assistance for
Minor Injuries**



**Do Not Consume
Drink or Food in
the Laboratory**



**Keep Your
Work Area
Neat, Clean &
Organized**



**Do Not Pipette
anything by
Mouth**

DEPT OF ZOOLOGY

DO'S & DON'TS OF THE DEPARTMENT OF BOTANY

Dos

- 1. Do keep your lab clean and tidy**
- 2. Do clean up after using
any glassware or equipment**
- 3. Do keep your working bench clean**
- 4. Do handle slides and specimens with care**

Don'ts

- 1. Don't carry and handle Microscope with
one hand**
- 2. Don't directly touch any chemical with hand**
- 3. Don't use cell phone in the lab**
- 4. Don't eat or drink in the lab**



DEPARTMENT OF BIOTECHNOLOGY

DO'S

1. **Follow Safety Protocols:** Wear appropriate PPE, such as lab coats, gloves, and safety goggles. Be familiar with emergency procedures.
2. **Proper Waste Disposal:** Dispose of biological and chemical waste according to guidelines. Use designated containers for different types of waste.
3. **Label Everything:** Clearly label all reagents, samples, and containers with contents, date, and safety information.
4. **Maintain Cleanliness:** Keep the workspace clean and organized. Regularly disinfect surfaces and equipment.
5. **Use Sterile Techniques:** Practice aseptic techniques to prevent contamination.
6. **Calibrate Equipment:** Regularly calibrate and maintain laboratory equipment.
7. **Understand Protocols:** Read and understand experimental protocols before starting procedures.
8. **Stay Informed:** Keep up-to-date with the latest developments and safety standards in biotechnology.

DON'TS

1. **Avoid Eating or Drinking:** Do not eat, drink, or store food in the lab to prevent contamination and exposure to hazardous substances.
2. **Never Pipette by Mouth:** Always use mechanical pipetting devices to avoid ingestion of harmful substances.
3. **Don't Ignore Spills:** Clean up chemical or biological spills immediately using proper procedures to prevent accidents and contamination.
4. **Don't Use Damaged Equipment:** Avoid using broken or malfunctioning equipment.
5. **Don't Rush Procedures:** Follow protocols carefully without rushing to avoid mistakes, accidents.
6. **Avoid Contaminating Reagents:** Do not return unused reagents to their original containers.
7. **Don't Forget Training:** Attend training sessions and refresh your knowledge on lab procedures and safety protocols.
8. **No Personal Items:** Keep personal items like bags, phones, and headphones outside the lab to maintain a safe, distraction-free environment.

DEPARTMENT OF MICROBIOLOGY

Lab Safety

It is our joint responsibility
to keep the lab clean and safe!



Authorised
persons only in
the laboratory



Lab coats
must be worn



Sensible footwear
must be worn –no
open shoes



All accidents and
dangerous events must be
reported and recorded



No smoking,
of any kind



Do not store or consume
food or drink in the lab



All work must be carried
out in accordance with
risk assessment



Dispose of
waste properly,
in line with policy



Keep the lab tidy, and
emergency routes
accessible



Visakhapatnam, Andhra Pradesh, India

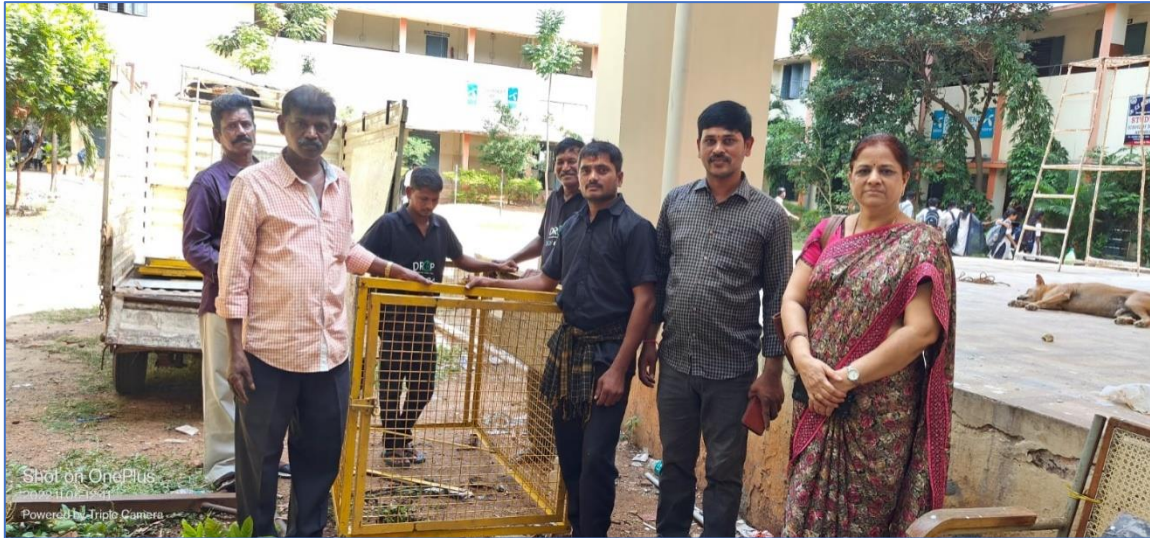
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Andhra Pradesh 530013, India

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PLASTIC BOTTLES MANAGEMENT FOR RECYCLING



DUST BINS AT CAMPUS



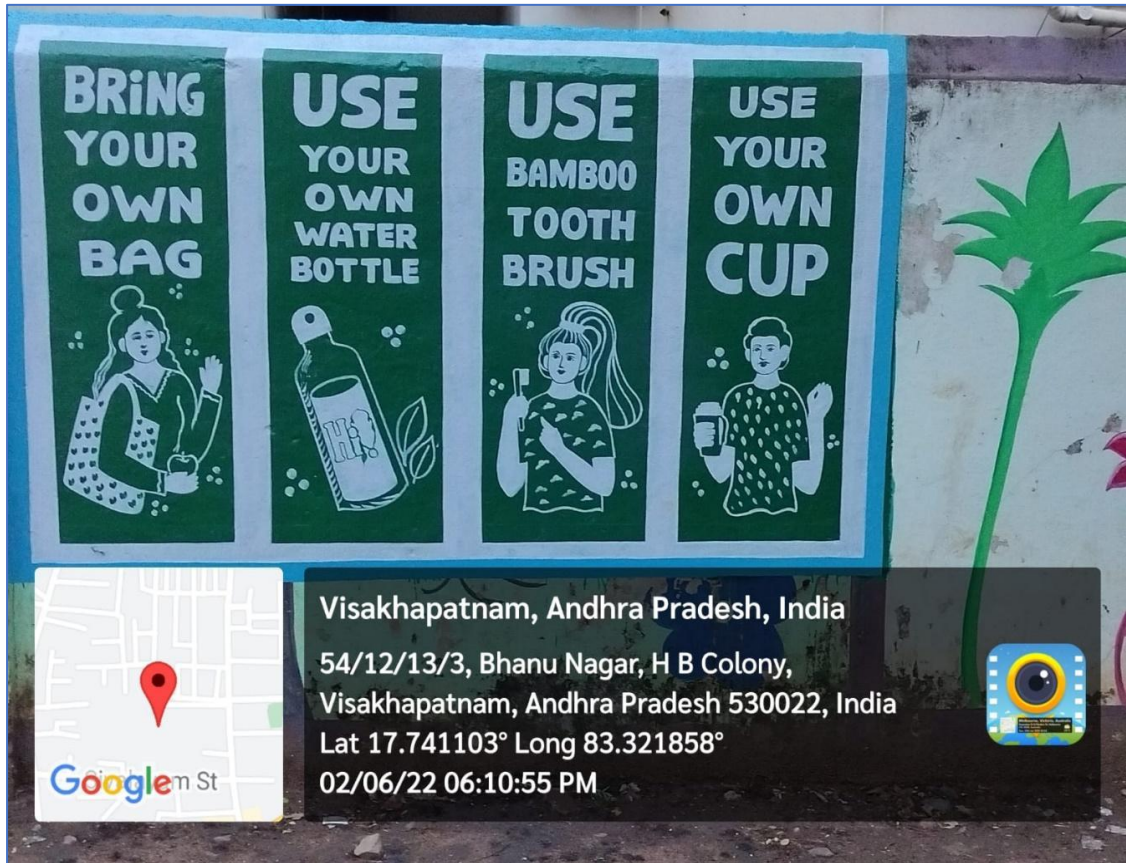
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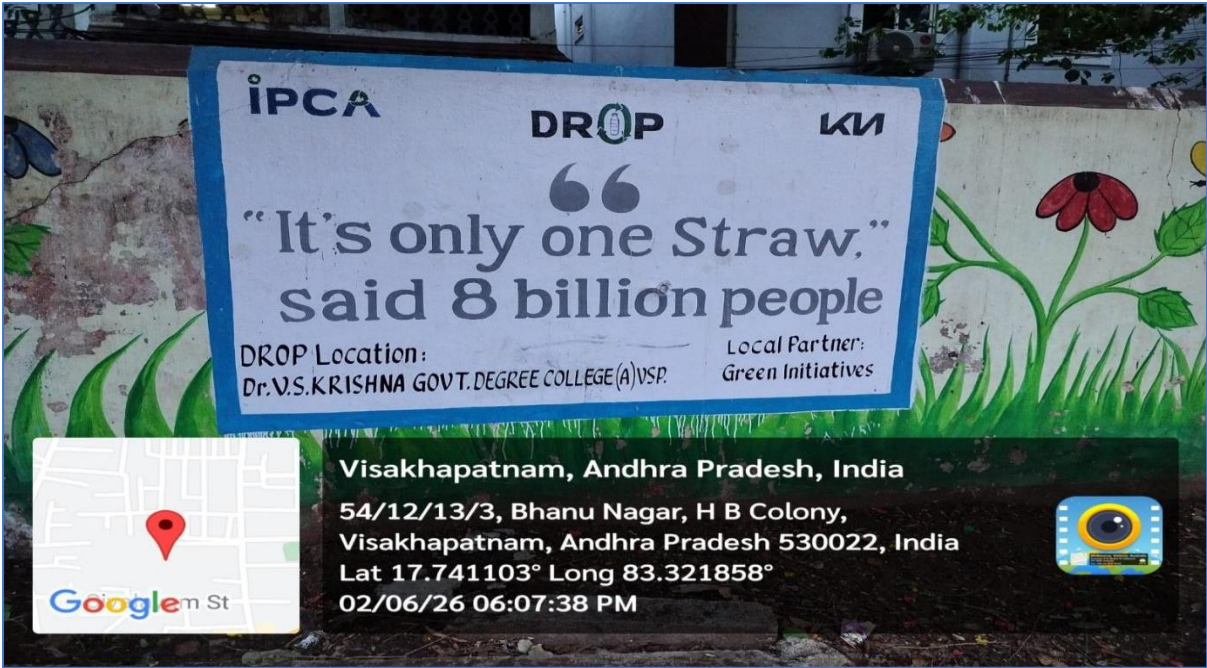
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530022, India

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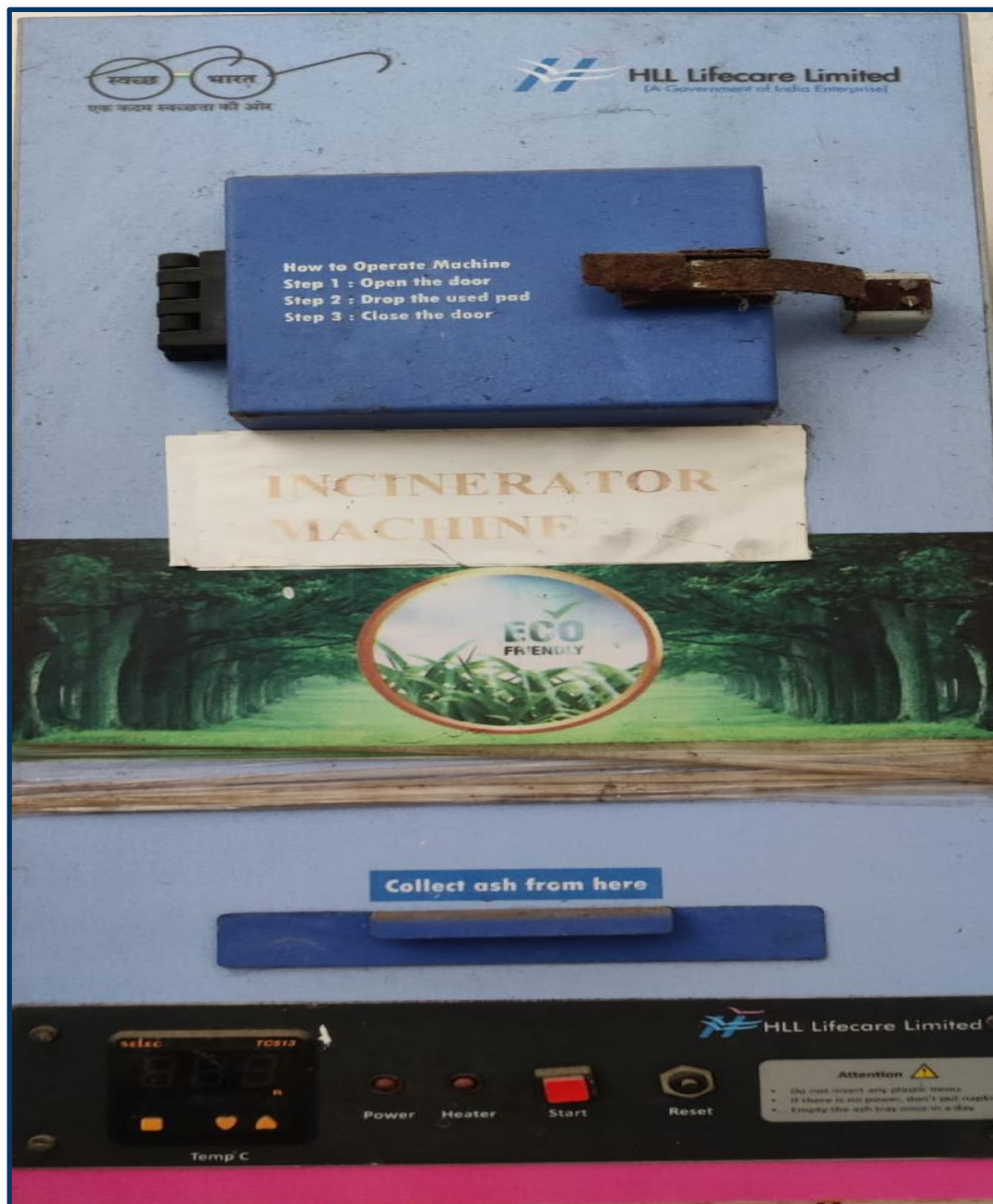


AWARENESS DISPLAY BOARDS ERECTED ALL OVER THE CAMPUS





INCINERATOR MACHINES FOR DISPOSAL OF SANITARY PADS



RO WASTER WATER CHANNELIZED FOR PLANTS



THANK YOU

