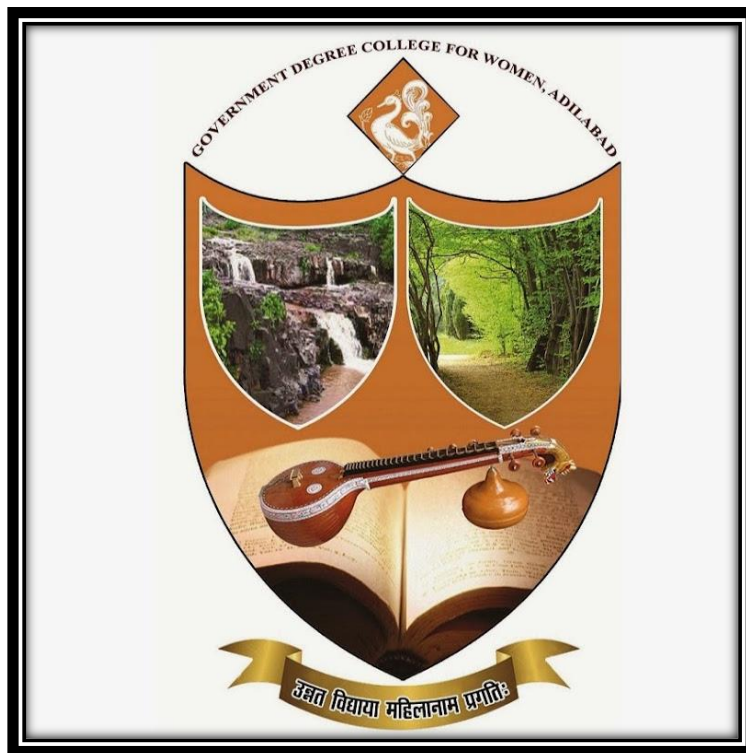


Government Degree College (Arts & Commerce) Adilabad

Report on Green Audit

Year: 2021



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1. College Profile

Name of the College: Government Degree College (Arts & Commerce) Adilabad

Address: Opp: Head Post Office, Telangana, Pin -504001 **Contact Info:**

gdcwomens.adilabad.jkc@gmail.com phone: 08732796472

Campus Area: 1.75 Acres

Built-up Area: 2763 Sq.Ft

Is the building has ventilators for natural air flow in all rooms: Yes

The student and faculty strength of the college:

Strength	Male	Female	Total
No of students	442	441	883
No of Teaching Staff	11	6	17
No of Non-Teaching staff	5	2	7

Physical Structure

The available land of the college: 1.75 acres and 0 Guntas.

The built-up area of the college: 2763 Sq.Ft.

No. of Class Rooms	16
No. of Laboratories	03
No. of Conference halls	01
Library Halls	01
Auditorium	nil
Canteen	Nil
Any other (please specify)	MANA TV Room, Newly constructed Room(30 X 30) for NAAC



View of college campus (Source: Google Map)



2. Objectives

- Environmental risk assessment including compliance to regulations, soil, Water, solid and E-wastes, emissions & hazardous products.
- Waste minimization and environmental pollution control plans.
- The optimal utilization of energy, water and other natural resources.
- Environmental education through systematic Environmental management approach.
- Improving environmental standards.
- Sustainable use of natural resource in the campus.
- Financial saving through a reduction in resource use.
- Developing an environmental ethic and value systems in students.

3. Audit participants

S. No	Name	Designation
1	Dr.Ateeq Begum	Principal
2	Dr.J.Anitha	Vice Principal
3	Sri.SK.Mujeeb	IQAC- Coordinator
4	Dr.A.Anuradha	Green Audit Coordinator Asst Prof of Economics
5	Sri.Yaqub Ali	Contract Lecturer in History
6	Smt.B.Anitha	Physical Director
7	Sri.Mohammed Mubarak	Contract Lecturer in Political Science
8	Smt. A.Rekha	Contract Lecturer in Telugu
9	Dr.M.Santhosh Kumar	Asst Prof of Hindi
10	Smt.T.Swapna	Contract Lecturer in Economics
11	Sri. D. Chaitanya Krishna	TSKC (Mentor)
12	AZHAR KHAN	Office Assistant (Computer Operator)
13	SAI DHARSHAN B.Com IIIrd Year 5 sem	Student
14	T.Anikith B.Com Ist year Isem	Student
15	MD Soheli B.Com Ist year I sem	Student

4. Methodology

The methodology includes:

- Collection of data.
- Physical inspection of the college campus.
- Observation and review of the documentation.
- Interaction with concerned Government Department officers (Municipal Executive Engineer)
- Data analysis.

5. Green Audit – Questionnaire

5A. Energy Management Questionnaire:

1. List ways that you use energy in your college. (Electricity, electric stove, kettle, microwave, LPG, firewood petrol, diesel and other).
A. Electricity
2. Electricity bill amount for the last year.
A. Rs. 130971.66
3. Amount paid for LPG cylinders for last one year.
A. zero
4. Weight of firewood used per month and amount of money spent? Also mention the amount spent for petrol diesel/others for generators?
A. Zero (Generator under repair)
5. Are there any energy saving methods employed in your college? If yes, please specify. If no, suggest some.
A. Yes, Students and Staff are encouraged to switch off electrical gadgets when not in use
6. How much money does your college spend on energy such as electricity, gas, firewood, etc. in a month?
A. Rs. 10000 electricity bill
7. How many Tubes has your college installed? Mention use (Hours used/day for how many days in a month)
A. 112
8. Energy used by each Tube per month? (For example 60watt bulb x 4hours x number of bulbs= Kwh).
A. 4.3Kwh 6hours per day
9. How many LED bulbs are used in your college? Mention the use (Hours used/day for how many days in a month)
A. 3
10. Energy used by each LED bulb per month
A. 10. 8 Kwh per month

11. How many incandescent (tungsten) bulbs have your college installed? Mention use
(Hours used/day for how many days in a month)

A. 60

12. Energy used by each bulb per month?(KWh)

A. 10.8

13. How many fans are installed in your college? Mention use (Hours used/day for how
many days in a month)

A. 138

14. Energy used by each fan per month (KWh)

A. 5Kwh

15. How many air Conditioners are installed in your college? Mention use (Hours used/day
for how many days in a month)

A. 4 (Not working)

16. Energy used by each air conditioner per month? (KWh).

A. not working

17. How many electrical equipment including weighing balance are installed your college?
use (Hours used/day for how many days in a month)

A. nil

18. Energy used by each electrical equipment per month?(KWH)

A. nil

19. How many computers are there in your college? use (Hours used/day for how many days
in a month)

A. 110, only 30 are working , 4 hours in all working days

20. Energy used by each computer per month (Kwh).

A. 20Kwh

21. How many photocopiers are installed by your college? Mention the use (Hours used/day
for how many days in a month)

A. 3. 2 not working and 1 is under repair since 2 days. One is under use daily per 4 hours in
all working days

22. How many cooling apparatus are in installed in your college? Mention the use
(Hours used/day for how many days in a month).

A. nil

23. Energy used by each cooling apparatus per month? (kwh) Mention the use

(Hours used/day for how many days in a month)

A. nil

24. Energy used by each photocopier per month?(kwh) Mention the use (Hours used/day for how many days in a month)

A. 19.5Kwh , 4 hours per day all working days

25. How many UPS / inverters Your college installed? Mention use (Hours used /day for how Many Days in a month)

A. 2 Inventors

26. Energy use by each UPS / inverter per month? (KWh).

A. 1400 VA

27. How many electrical equipments are used in different labs of your college? Mention the use (Hours used/day for how many days in a month)

A. nil

28. Energy used by each equipment per month?(kwh)

A. nil

29. How many heaters are used in the canteen of your college? Mention the use (Hours used /day for how many days in a month)

A. Zero

30. Energy used by each heater per month? (kwh)

A. Zero

31. No of street lights in your college?

A. 1

32. Energy used by each street light per month? (kwh)

A. 3.9

33. No of TV in your college and hostels?

A. 1 in college

34. Energy used by each TV per month?(kwh)

A. 4.1Kwh

35. Any other item that uses energy (please write the energy used per month) Mention the use (Hours used/*day for how many days in a month)

A. submersible pump , Generator , Virtual Class Room , RIO Plant , CC Cameras ,DVR & Bore , (submersible pump , Generator Not working) . 6 hours all working days

36. Are any alternative energy sources/nonconventional energy sources employed/ installed in your college? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc...) Specify.

A. No

37. Do you run “Switch off” drills at your college?

A. No

38. Are your computers and other equipment put on power –saving mode?

A. No

39. Does your machinery (TV, AC, computer, weighing balance, printers, etc.) run on Stand by mode most of the time. If yes, how many hours?

A. No

40. What are the energy conservation methods adapted by your college?

A. Using Maximum Day light and unplugging electrical devices when they are not in use.

41. How many boards displayed for saving energy awareness?

A. We have not displayed boards but used to give awareness on environment and conservation of energy in regular mode.

42. How much ash is collected after burning fire wood per day in the Canteen?

A. Zero

43. Write note on the methods/Practices/adaptations by which you can reduce the energy use in your college campus in future.

1. Power backup maintenance
2. Alternate source of energy introduction of solar based equipment
3. Strict instructions to all non teaching , teaching and students regarding power use during college hours and implementation of penalties in case of violation
4. Interaction with electricity boards officials on energy saving methods as part of MOU

A. Energy efficient LED tubes, Using maximum day light, Unplugging devices when they are not in use, Using less A/C And Replacement of fans with energy efficient fans.

ROOM NO	ELECTRICAL APPLIANCE /ITEMS/INSTURMENTS	NUMBE R	POWER (W)/UNIT
Principal Room	Generator	1	Not working
	Fans	3	Working
	Tube lights	4	Working
	AC	1	Not working
	Invertors	1	Not working
	Computer (without printer)	1	Working
	LCD TV	1	Working
	CCTV (DVR & Monitor)	1	Working
	Bio-metric Attendance	2	Working
	Refrigerator	1	Not working
	Stand Fan	1	Not working
	Cooler	1	Not working
Office Room	Fans	2	Working
	Tube lights	8	1 not working
	Computer	3	Working
	Printers	2	1 not working
	Bio metric	1	Working
	Xerox Machine	1	Not working

Computer Application Lab	Fans	6	Working
	Tube lights	13	9 working (4 not working)
	Table Fan	1	Working
	LCD Projector	1	Working
	AC	1	Not working
	Computers	30	Not working
Ground Floor Veranda	CC Cameras	1	Working
Room 4	Fans	5	1 not working
	Tube lights	6	Working
	AC	2	2 Not working
	Computers	13	Working
	Scanner	1	Working
	LCD Projector	1	Working
	Xerox Mechanic	1 recently under repair	
English Language Lab	Fans	1	Working
	Wall Fans	4	Working
	Table fan	1	Working
	Color Printer	1	Not Working

	Computers	13	Working 10 Not Working 03
	Television	1	Not Working
	Tube lights	5	Working 03 Not Working 02
	60 Watt Bulb	01	Not Working
PD Department	Fans	01	Working
	Tube lights	04	Working
	Fans	02	Working
	Computer	01	Working
	Speakers	02	Not Working
Room No 20	Fans	03	Working 02
	Tubes	07	Working
Ist Floor Veranda	CC Camera	01	Working
	Tube light	01	Working
Room No 21	Fans	03	Working 02
	Tubes	06	Working 05
	Projector	01	Working
	Inverter	01	Working

Room No 22	Fans	03	Working 02
	Tubes	06	Working 02
	Fridge`	01	Working
Room No 23	Fans	03	Working 02
	Tubes	06	Working 04
	Horizontal Laminar	01	Not in Use
Room No 24	Fans	03	Working 03
	Tubes	06	Working 04
Room No 12	Fans	03	Not Working
	Tubes	04	Working 02
	Tube Light (Veranda)	01	Working
Stair Case	Tube Light	01	Working
Room No 13	Fans	01	Working
	Tubes	04	Working 02
	Projector	01	Working
	Tube Light (Veranda)	01	Not Working

Room No 14	Fans	02	Working 01
	Tubes	05	Working
Room No 15	Fans	06	Working
	Tubes	05	Working 04
	Tube Light(Veranda)	01	Working
Room No 16	Fans	06	Working
	Tubes	05	Working 04
Room No 17	Fans	06	Working
	Tubes	05	Working 03
Political Science Department (Sick Room)	Fans	02	Working
	Tubes	02	Working
Waiting Room	Fans	02	Working
	Tubes	02	Working
Room No 2	Tubes	07	

	LED Bulb	02	Working
	Fans	03	Working
	Computers	03	Working
	Photostat Machine	01	Working
	Printer	02	Working
	Wall Fan	02	Working
Room No 3	Tubes	13	Working
	Fans	06	Working
	Computers	18	Working
	UPS	04	Working
	AC	01	Working
	Wall Fan	01	Working
	Projector	01	
Room No 4	Tubes	13	Working
	Fans	06	Working
	Computers	13	Working
	Printer	02	Working
	Photostat Machines	01	Working
	Scanner	01	Working
	UPS	01	Working

	AC	02	Not working
	Projector	01	working
Room No 5	Tubes	08	working
	Fans	07	Working
	Stand Fan	02	Not working
	Projectors	02	working
Room No 6	Tubes	4	working
	Fans	3	working
	Wall Fans	4	Not working
Room No 7&8 (Library)	Tubes	10	working
	Fans	10	working
	Xerox Machine	01	Not working
	CPU	01	Not working
Room No 9 (TSKC Room)	Computers	25	Not working
	AC	02	Not working
	Wall Fan	1	Not working
Room No 10 (Lab)	Tubes	03	Not working

	Fans	03	Not working
	Refrigerator	01	Not working
Room No 11 (Lab)	Tubes	05	Not working
	Fan	03	Not working
	Computers	15	Not working
	Refrigerator	01	Not working
Room No 12	Tubes	02	Not working
	Fans	03	Not working

Energy Audit Report :

Sl. No	Electrical appliances/ instruments	Number	Power (W)/	Total power(W)	kW	Operation	kW/hr	No.of days in month	Total consumption per month
			unit			/day			
1	CFL	27	14	378	0.88	4	3.528	25	88.2
2	TUBE	112	38	4256	10.3	4	41.32	25	1033
4	LED BULB	10	9	90	0.87	4	3.492	25	87.3
5	LED TUBE	0	0	0	0.84	4	3.36	15	50.4
6	PROJECTORS - 3 DIGITAL BOARDS 3	6	280	1680	2.8	2	5.6	25	140
7	SPEAKERS	2	10	20	0.36	1	0.36	25	9
8	FAN	84	60	5040	14	50	699	20	13980
9	COMPUTER	30	250	7500	35	10	350	20	7000
10	LAPTOPS	1	50	50	0.5	1	0.5	20	10
11	PRINTERS	4	60	240	0.12	2	0.24	20	4.8
12	PHOTOSTAT MACHINE	1	650	650	3.9	1	3.9	15	58.5
13	SCANNER	1	50	50	0.05	0.5	0.025	15	0.375
14	UPS	2	1000	2000	3	2	6	20	120
15	INDUCTION	0	0	0	2	0	0	15	0
16	A/C (Not working)	0	0	0	14	0	0	15	0
17	REFRIGERATOR	1	150	150	1.05	1	1.05	30	31.5
18	TABLE FAN	0	0	0	0.11	0	0	25	0
19	MIXER GRINDER	0	0	0	1.5	0	0	15	0
20	OVEN	0	0	0	4.5	0	0	10	0
22	CENTRIFUGE	0	0	0	1.7	0	0	8	0
23	AUTOCLAVE	0	0	0	1.7	0	0	4	0
24	ULTRASOUND	0	0	0	0.7	0	0	5	0
25	LAMINAR FLOW	0	0	0	0.6	0	0	15	0
26	EXHAUST FAN	1	32	32	0.03	1	0.032	25	0.8
27	IRON BOX	0	0	0	4	0	0	15	0
28	SEWING MACHINE	0	0	0	0.6	0	0	25	0
29	COLOUR BULB	0	0	0	0.78	0	0	5	0
30	INCUBATOR	0	0	0	0.08	0	0	25	0
31	DISTILLATION UNIT	0	0	0	1	0	0	12	0
32	SANITARY NAPKIN	0	0	0	7.2	0	0	25	0

	INCINERATOR								
33	BIOMETRIC MACHINE	3	0	0	0	0	0	25	0
34	GENERATOR	1	0	0	0	0	0	25	0
35	SUBMERCABLE PUMP	1	0	0	0	0	0	25	0
36	RIO PLANT	1	0	0	0	0	0	15	0
37	CCTV DVR	6	10	60	0.24	6	1.44	30	43.2
	Total						1119.847		22657.075
	Consumption per month						Kw/hr		

**PRESENT STATUS REPORT ON ENERGY USE IN SCIENCE
DEPARMENRTS**

1. Vide CCE Proc.RC.No.File No.CCE AC/GEN/52/2019 dated:14-02-2020

Govt.Degree College for Women reorganized into Govt.Degree College Arts & Commerce . Hence , Science Departments shifted & Laboratories closed with the below mention un used Electrical equipments since 2019 October

S.No	Room No	Name of the Department	Electrical / Equipment/Items
1	11	Micro Biology Lab	Oven ,Heater , Gas cylinder, Incubator, wall fans , sealing fans,
2	10	Chemistry Lab	4 tubes , 3 Fans,


Dr.A.Anuradha Asst Prof of Economics


Smt. B.Rekha Contract Lecturer in Telugu

AUDITING FOR WASTE MANAGEMENT :

What is the total strength of students, teachers and Non-teaching staff in your College?

No. of Students; No. of Teachers; No. Non-teaching staff; Gents - Ladies Total

Which of the following are available in your College?

Give area occupied, Garden area and Garbage dump (number)

Playground area, Laboratory, Kitchen, Canteen, Toilets (number) Car/scooter shed area

Number of class rooms, Office rooms and others (specify)

Which of the following are found near your college? Mark the level of disturbance it creates for the college in a scale of 1 to 9.

Municipal dump yard

Garbage heap

Public convenience Sewer line

Stagnant water

Open drainage Industry – (Mention the type)

Bus / Railway station Market / shopping complex / public halls

WASTE

Does your college generate any waste? If so, what are they?

How much quantity?

Type of Waste	Quantity
E-Waste	1 Kg
Hazardous Waste	½ Kg
Solid Waste	5 Kg
Dry Waste	4 Kg
Canteen Waste	Nil
Liquid Waste	15 Lts
Glass	1 Kg
Unused equipment	5 Kg
Napkins	Nil
Others Dry leaves, Papers	8 Kg

Is there any waste treatment system in the college?

Ans: No

Is there any treatment for toilet/urinal/sanitary napkin waste?

Ans: No

1 What is the approximate quantity of waste generated per day? (in Kilograms) Office Laboratories Canteen/kitchen

Ans: Office, < 1Kg

Laboratories, < 1Kg

Canteen, <1Kg

2 Why waste is a problem?

Ans: It pollutes the environment and causes disease which contributes to green house gases.

3 Whether waste is polluting ground/surface water? How?

Ans: Ground water would be contaminated; waste material can mix with surface water and contaminates it.

4 Whether waste is polluting the air of the college? How?

Ans: Yes. Waste material may mix with the air and surrounding the college and pollute it.

5 How is the waste generated in the college managed?

Methods 1 Composting 2 Recycling 3 Reusing 4 Others (specify)

Composting/ Vermi Composting	Yes
Recycling	No
Reusing	Used written papers are being used.
Other ways	Solid waste is gathered and disposed off.

6 How many separate boxes do you think you would need to put into a classroom to start a waste segregation and recycling campaign?

What should be the use for each box? (Develop a Colour code with reasons)

Ans: Three boxes: Green for wet wastage; Blue for dry wastage and Brown for recycling.

7 Do you use recycled paper in College?

Ans: No

8 Is there any waste wealth program practiced in the college?

Ans: No

Approx. Bio degradable Non-Bio degradable Hazardous Others < 1 kg. 2 - 10 kg. > 10 kg.

Approx. Bio degradable Non-Bio degradable Hazardous Others < 1 kg. 2 - 10 kg. > 10 kg.

Approx. Bio degradable Non-Bio degradable Hazardous Others < 1 kg. 2 - 10 kg. > 10 kg.

9 How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.

Ans: Would try to conduct awareness programmes through NCC.NSS camps about recycling and its uses and would teach students about the uses of recycling.

10 Can you achieve zero garbage in your college? (Reduce, Recycle, Reuse, Refuse) If yes, how?

Ans: Yes, Would try to reduce garbage to a manageable level through Reduce, Recycle, Reuse and Refuse methods

Mohammed Yaqub Ali Contract Faculty in History

AUDITING FOR WATER MANAGEMENT

1. List out uses of water in your college.

Ans: Drinking, Cleaning, Toilets and Gardening.

2. What are the sources of water in your college?

Ans: Municipal Tap, Borewell (Submercible).

3. How many wells are there in your college?

Ans: Nil

4. No. of motors used for pumping water from each well?

Ans: Nil

5. What is the total horse power of each motor?

Ans: 1.5hp

6. What is the depth of each well?

Ans: Nil

7. What is the present depth of water in each well?

Ans: Nil

8. How does your college store water?

Ans: Three Overhead Tanks

9. Quantity of water stored in your overhead water tank? (In liters)

Ans: 3500 litres

10. Quantity of water pumped every day? (In liters)

Ans: 1500 Ltr to 2000 Ltr

11. If there is water wastage, specify why.

Ans: Nil

12. How can the wastage be prevented / stopped?

Ans: Nil

13. Locate the point of entry of water and point of exit of waste water in your College.

Ans:

14. Where does waste water come from?

Ans: Nil

15. Where does the waste water go?

Ans: parallel municipal Drainage system

16. What are the uses of waste water in your college?

Ans: for watering Pantation

17. What happens to the water used in your labs? Whether it gets mixed with ground water?

Ans: Not Mixed.

18. Is there any treatment for the lab water?

Ans: Nil

19. Whether green chemistry methods are practiced in your labs?

Ans: Nil

20. Write down four ways that could reduce the amount of water used in your college.

Ans:

- Check your Toilet for leaks.
- Stop using your Toilet as an ashtray or water basket
- Put a plastic bottle in your toilet tank
- Take shorter showers

- Install water saving tap heads
- Turn off the water valves
- Rain water harvesting
- Water metering
- Gray water recycling
- Pressure reducing valves
- Water efficient bathroom accessories

21. Record water use from the college water meter for six months.

Ans: No

22. Bimonthly water charges paid to water connections if any

Ans: Nil

23. No. of water coolers. Amount of water used per day? (in liters)

Ans: 01, 100 Liters

24. No. of water taps. Amount of water used per day?

Ans: 24 taps, 1000 litres

25. No. of bath rooms in staff rooms, common, hostels. Amount of water used per day?

Ans: 2 for Staff, 4 for students

26. No. of toilet, urinals. Amount of water used per day?

Ans: 1000 to 1500 litres

27. No. of water taps in the canteen. Amount of water used per day?

Ans: Nil

28. Amount of water used per day for garden use.

Ans: 500 litres

29. No. of water taps in laboratories. Amount of water used per day in each lab?

Ans: Nil

30. Total use of water in each hostel?

Ans: NA

31. At the end of the period, compile a table to show how many liters of water have been used in the college for each purpose

Ans:

Sl.No	Purpose	Use of Water No of Ltrs
1	Campus Cleaning	50000
2	Wash Rooms	100000
3	Drinking	75000
4	Gardening	75000
5	Coolers	10000
6	Events	25000
7	Wastage	45000

32. Is there any water used for agricultural purposes?

Ans: Nil

33. Does your college harvest rain water?

Ans: Nil

34. If yes, how many rain water harvesting units are there? (Approx. amount)

Ans: Nil

35. How many of the taps are leaky? Amount of water lost per day?

Ans: 5 Taps, 100 Liters.

36. Are there signs reminding people to turn off the water?

Ans: Yes

37. Is there any waterless toilets?

Ans: 01

38. How many water fountains are there?

Ans: Nil

39. How many water fountains are leaky?

Ans: Nil

40. Is drip irrigation used to water plants outside?

Ans: No

41. How often is the garden watered?

Ans: Twice a day

42. Quantity of water used to watering the ground?

Ans: 500 litres

43. Quantity of water used for bus cleaning? (Liters per day)

Ans: Nil

44. Amount of water for other uses? (Items not mentioned above)

Ans: Nil

45. Area of the college land without tree/building canopy.

Ans: 2763 Sq.Ft

46. Is there any water management plan in the college?

Ans: Planning to prepare soon.

47. Are there any water saving techniques followed in your college? What are they?

Ans: Planned to constitute water committee and awaiting for report.

48. Please share Some IDEA for how your college could save more water.

Ans: Planning to Rain Harvest

Water Audit Report:

- Water samples sent for Water quality and biological quality index. Reports are submitted by MISSION BAGIRATHA Department Adilabad. the report received on 1st November 2021 submitted for your kind perusal.

తెలంగాణ ప్రభుత్వం
అంతర్గత నీటి నాణ్యత పర్యవేక్షణ ప్రయోగశాల
మిషన్ భగీరథ శాఖ


నీటి బాక్టీరియాలజికల్ పరీక్షపై నివేదిక (త్రాగు నీరు)

నీటి నమూనా పంపినవారి వివరాలు : Govt Degree college ప్రయోగశాలకు నీటి నమూనా సమర్పించిన తేదీ : 28/10/21
నీటి నమూనా సేకరించిన తేదీ : 28/10/2021 ఎవరు నీటి నమూనా సేకరించారు : Santhosh నీటి నమూనా విశ్లేషణ పూర్తయిన తేదీ : 29/10/21

క్రమ సంఖ్య	ల్యాబ్ క్రమ సంఖ్య	మండలం	గ్రామపంచాయతీ / ఆవాసు (వ్యాటిటేషన్)	నీటి నమూనా సేకరించిన స్థలం	నీటి వనరు రకం	సిపాన్ (pH)	ఐ.సి (EC)	డి.డి.యస్	మొత్తం ఆల్కలీనిటీ CaCO ₃ గా	మొత్తం కార్బోనేట్ CaCO ₃ గా	క్లోరైడ్ Cl గా	ఫ్లోరైడ్ F గా	నైట్రేట్ NO ₃ గా	సల్ఫేట్ SO ₄ గా	ఇసుము Fe గా	రిమాక్స్
కొలత యూనిట్లు						No units	μS / cm	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	
BIS : 10500-2012 ప్రకారం అంగీకారయోగ్యమైన పరిమితి - అనుమతించబడిన						(6.5-8.5)	-	(500-2000)	(200-600)	(200-600)	(250-1000)	(1.0-1.5)	45	(20-400)	(0.3-1.0)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1		Adilabad	Govt Degree College		7.92	525	341	196	236	62	0.30	3.7	22.16	0.05		
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ల్యాబ్ యొక్క స్థాయి : Division Lab
ల్యాబ్ ఉన్న స్థలం : Adilabad
జిల్లా పేరు : Adilabad

ల్యాబ్ కెల్లెక్షన్ నెంబర్ : 341
Water Analysis
RWS Laboratory
ADILABAD


Dr.M.Santhosh Kumar
Asst Prof of Hindi

5D.Green Campus Management Questionnaire

AUDITING FOR GREEN CAMPUS MANAGEMENT

1. Is there a garden in your college? Area?

Ans: No

2. Do students spend time in the garden?

Ans: No

3. List the plants in the garden, with approx. numbers of each species.

Ans: NA

4. Suggest plants for your campus. (Trees, vegetables, herbs, etc.)

A. TREES:

1. Mango
2. Almond
3. Coconut
4. Banyan Tree
5. Neelagiri

B. VEGETABLES:

1. Muraya
2. Brinjal
3. Citrus Family
4. Moringaoleifera (Munaga)

C. HERBS:

1. Hibiscus
2. Bouganvillia
3. Nerium
4. Rose
5. Jasmine
6. Citrus Family
7. Guava
8. Asters (Chamanthi)

5. List the species planted by the students, with numbers.

1. Neem – 03
2. Neerium (Ganneru) – 15
3. Delonix – 04
4. Gulmohar – 05
5. Mango - 02

6. Whether you have displayed scientific names of the trees in the campus?

Ans: Yes

7. Is there any plantations in your campus? If yes specify area and type of plantation.

Ans: No

8. Is there any vegetable garden in your college? If yes how much area?

Ans: No

9. Is there any medicinal garden in your college? If yes how much area?

Ans: Yes, Botanical Garden (20/60)

10. What are the vegetables cultivated in your vegetable garden? (Mention the quantity of harvest in each season)

Ans: No

11. How much water is used in the vegetable garden and other gardens? (Mention the source and quantity of water used).

Ans: No

12. Who is in charge of gardens in your college?

13. Are you using any type of recycled water in your garden?

Ans: No

14. List the name and quantity of pesticides and fertilizers used in your gardens?

Ans: No

15. Whether you are doing organic farming in your college? How?

Ans: No

16. Do you have any composting pit in your college? If yes, what are you doing with the compost generated?

Ans: No

17. What do you do with the vegetables harvested? Do you have any student market?

Ans: No

18. Is there any botanical garden in your campus? If yes give the details of campus flora.

Ans: Yes, The flora present in our Botanical Garden

1. Pongamiapinnata
2. Bouganvillia
3. Azadiracta indica
4. Delonixregia
5. Neriumodorum
6. Pscidium Guava
7. Anonasqamosa
8. Altonia
9. Mangifera indica
10. Citrus(Lemon)
11. Gorintaku
12. Pomegranate
13. Murayya
14. Moringaoleifera

19. Give the number and names of the medicinal plants in your college campus.

1. Neem – 15
2. Ocimum Sanctum (Tulasi) – 10
3. Aloevera – 05
4. Amla – 02

5. Murrayya – 05

6. Tinospora - 02

7. Gorinta – 02

8. Moringaoleifera (Munaga) – 05

9. Hibiscus – 05

10. Kidney Plant - 03

20. Any threatened plant species planted/conserved?

Ans: No

21. Is there a nature club in your college? If yes what are their activities?

Ans: No

22. Is there any arboretum in your college? If yes details of the trees planted.

Ans: No

23. Is there any fruit yielding plants in your college? If yes details of the trees planted.

1. Psidium Guava

2. Custard Apple

3. Citrus

4. Amla

5. Carica Papaya

24. Is there any groves in your college? If yes details of the trees planted.

Ans: No

25. Is there any irrigation system in your college?

Ans: No

26. What is the type of vegetation in the surrounding area of the college?

Ans: Tropical Vegetation Ex: Teak, Neem.

27. What are the nature awareness programmes conducted in the campus?

Ans: Haritha Haram Programme

28. What is the involvement of students in the green cover maintenance?

Ans: Students involved in the Green Cover maintenance, planted saplings in Haritha Haram Programme by support of Coordinators of NSS and Harithaharam.

29. What is the total area of the campus under tree cover? Or under tree canopy?

Ans: College Campus under tree cover areas 1.5 acres

30. Share your IDEAS for further improvement of green cover.

Ans: We have an idea to construct garden in our campus which makes the students feel good and spend time there on their leisure time.

In order to improve eco-friendly environment in terms of greenery planning to have more number of medicinal plants and adopting new innovative methods like roof garden.

Considering the temperature of the location in summer it is needed to make the campus eco-friendly.

AUDITING FOR CARBON FOOTPRINT

1. What is the total strength of students and teachers in your College?

No. of Students	No. of Teachers	No. of Non-teaching staff	Gents	Ladies	Total
782	17	7	469	337	806

2. Total Number of vehicles used by the stakeholders of the college. (per day)

Ans: 30

3. No. of cycles used

Ans: 10

4. No. of two wheelers used (average distance travelled and quantity of fuel and amount used per day)

Ans: 25, 03 Litres, 330 Rs.

5. No. of cars used (average distance travelled and quantity of fuel and amount used per day)

Ans: 02, 01 Litres, 110 Rs.

6. No. persons using common (public) transportation (average distance travelled and quantity of fuel and amount used per day)

Ans:

- 150 persons including students using common public transportation.
- Average distance travelled 2250Km consuming 450 litres of fuel costing rate 45000/-.

7. No. of persons using college conveyance by the students, non-teaching staff and teachers (average distance travelled and quantity of fuel and amount used per day)

Ans: Nil

8. Number of parent-teacher meetings in a year? Parents turned up (approx.)

Ans: 2

9. Number of visitors with vehicles per day?

Ans: 05

10. Number of generators used per day (hours). Give the amount of fuel used per day.

Ans: Nil

11. Number of LPG cylinders used in the canteen (Give the amount of fuel used per day and amount spent).

Ans: Nil

12. Quantity of kerosene used in the canteen/labs (Give the amount of fuel used per day and amount spent).

Ans: Nil

13. Amount of taxi/auto charges paid and the amount of fuel used per month for the transportation of vegetables and other materials to canteen.

Ans: Nil

14. Amount of taxi/auto charges paid per month for the transportation of office goods to the college.

Ans: Nil

15. Average amount of taxi/auto charges paid per month by the stakeholders of the college.

Ans: Rs. 500 per month (5 trips)

16. Use of any other fossil fuels in the college (Give the amount of fuel used per day and amount spent).

Ans: Nil

17. Suggest the methods to reduce the quantity of use of fuel used by the stakeholders/students/teachers/non-teaching staff of the college.

Ans:

- All the stakeholders are suggested every Monday with their bicycle
- Drive with speed limit

18. Are the Rooms in Campus are Well Ventilated? Yes/No

Ans: Yes

19. Window Floor ratio of the Rooms. Good/Not Enough

Ans: Good. 1:10

Carbon Footprint - Report


- Petrol used by two wheelers/day–30 L
- (Per person to and fro 40 Kms=1L) Fuel used by four wheelers (52 Persons) - 2 L
- (Per person to and fro 40 Kms=2L) Fuel for persons (total 2314 persons) travelling by common: 2.4 L
- Transportation =184 L (4L x 50 persons) : Nil

Total fossil fuel use is 517 L / day : Nil

Total fuel cost per day for transportation =Rs. 36190/- (517 L x Rs 70) : Nil

Cost of stakeholder transportation per month (Rs.36190x22 days)- Nil


B. Anitha Physical Director


Mohammed M. Barak
Contract Faculty Political Science

Faunal diversity in college campus (with Photographic evidence)

Faunal group	Scientific name	Number (If enumeration is done)	Seasonality
Spiders			
Moths & butterflies			
Other insects: (Dragon Flies, Bees, Wasps, Bugs, and Beetles etc..)	Dragon Flies	02	Winter
Annelids			
Other Arthropods			
Amphibians			
Reptiles			
Birds			
Mammals			
Any other (specify)			

Air quality Determination:

Air Quality Index (parameters studied/recorded/ Seasonal):

NO ₂	16
NO	
O ₃	26
PM2.5	52
PM10	109
CO	220.0 Ng/m ³ AGJ
Humidity	36%
Barometric Pressure	1011 Ohpa
Wind Speed	8.6 Kmph
Wind Direction	24.0 Degrees
Sun Rise	6.20 AM
Sun Set	5.39 PM

Source Adilabad Govt of Telangana , air quality index

Measurements of Noise level in and around the college

S.No	place (S)	Measurements (Duration in seconds)	Minimum (dBA)	Maximum (dBA)	Average (dBA)
1	Library	15 sec	20	90	
2	Canteen	22sec	30	70	
3	Play ground	60sec	60	110	
4	Auditorium	-	-	-	
5	Science Block				
6	Any Other (Specify)	College situated in the heart of the town with heavy traffic roads at 3sides. Hence noise levels are maximum(dBA) through out the day.			

6. Green Activities/Practices

- The college gives importance and priority to promote green practices.
 - We organize a campaign to make the campus clean and green and Swachh Bharat abhiyan activities are conducted
 - Awareness programs and teaching programs are taken up regarding the necessity & advantages of green practices.
 - Plastic with less than 14mm Microns is banned in the college campus. Efforts are on to decrease the use of plastic on the campus. Paper cups and paper plates are being used instead of plastic.
 - Most of the students use public transport (bus) to reach the college. They make use of student bus passes, as most of them come from nearby villages.
 - The collegiate education has introduced the e-office system in the year of 2018-19. It enables the institution to enhance transparency, accountability, Assure data security and data integrity.
 - Haritha Haaram program (saplings are planted) is followed by the institution under the guidance of the Telangana state government. As a safety and security measures for these saplings tree guards are provided.
 - We do celebrate environmental related days like Ozone day etc.
1. Every month Weekly once Municipal Sanitary Staff has been under taking cleaning of College Campus
 2. Plantation of new Saplings which Eco friendly with the cooperation of Forest Department
 3. Eco-friendly Ganesha idols are made and distributed. The idol, when immersed in water degrade faster and do not harm the environment.
 4. Organize the Plantation programmes, awareness programmes such as quiz, essay, painting competitions, rallies, etc...
 5. Motivate students to imbibe habits and life style for minimum waste and disposing the waste to the nearest storage.
 6. Motivate the students to keep their surroundings green and clean by undertaking plantation of trees.

7. Environmental Clubs/Committees

The Following environmental committees have been constituted in the college.

- Green Audit Committee

	Green Audit Committee Members Student Volunteers : (5)	Convener : Dr.A.Anuradha Asst Prof of Economics Sri.Yaqub Ali Contract Lecturer in History Dr.M.Santhosh Kumar Asst Prof of Hindi Smt.Rekha Contract Lecturer in Telugu Smt.B.Anitha Physical Director Sri.Mohammed Mubarak Contract Lecturer in Political Science Smt.T.Swapna Contract Lecturer in Economics 1.K.Vamshi Krishna B.A III Sem 2.K.Saiteja B.A. III Sem 3.B.Pallavi B.A. III Sem 4.A.Sudharshan B.A. V sem 5.Anusha B.Com IIIrd Sem
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- Haritha Haaram Committee

	Haritha Haram Committee	Smt.B.Anitha Physical Director Sri.Mohammed Mubarak Contract Lecturer in Political Science 1. 2. 3.
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-Swachh bharaoh committee

	Green Audit Committee Members Student Volunteers : (5)	Dr.J.Anitha Asst Prof of Commerce (Vice Principal) Smt.B.Anitha Physical Director Sri.Yaqub Ali Contract Lecturer in History 1.Ch.Sneha B.com Ist Semester 2.K.Baliraj B.Com Ist Semester 3.Thiruneshwari B.A V semester
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Waste Management committee

	Waste Management committee	Dr.M.Santhosh Kumar Asst Prof of Hindi Sri.T.Karunakar Superintendent Sri.Mohamad Pasha Senior Assistant Sri. Srinivas Junior Assistant 1.C.Pallavi B.A. V sem 2.B.Srija B.A V sem 3.Pavitra B.A V sem
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Internal Grading for Environmental Audit Report :

S. No	Components for Assessment	Marks
1	Energy Audit	15
2	Waste Audit	13
3	Water Audit	14
4	Landscape or Environment Audit	10
5	Carbon footprint & Oxygen emission Audit	10
6	Green Activities/Practices	5
7	Student clubs/Environmental committees	5
	Total	72

Grade: B+

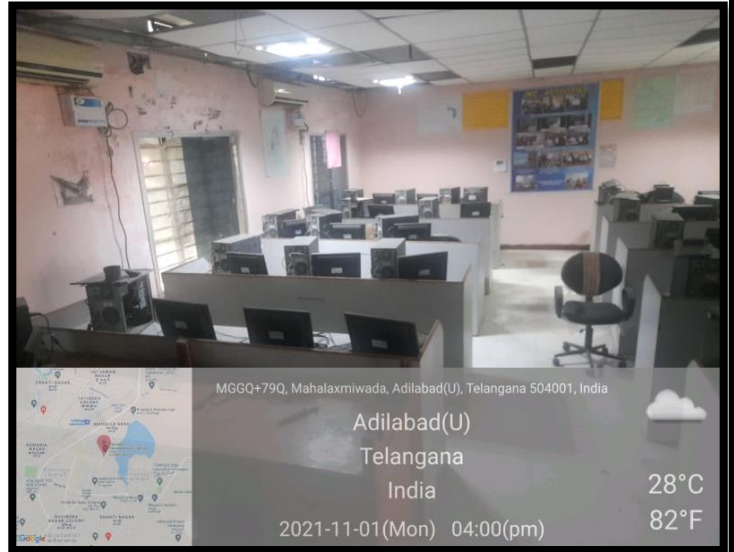
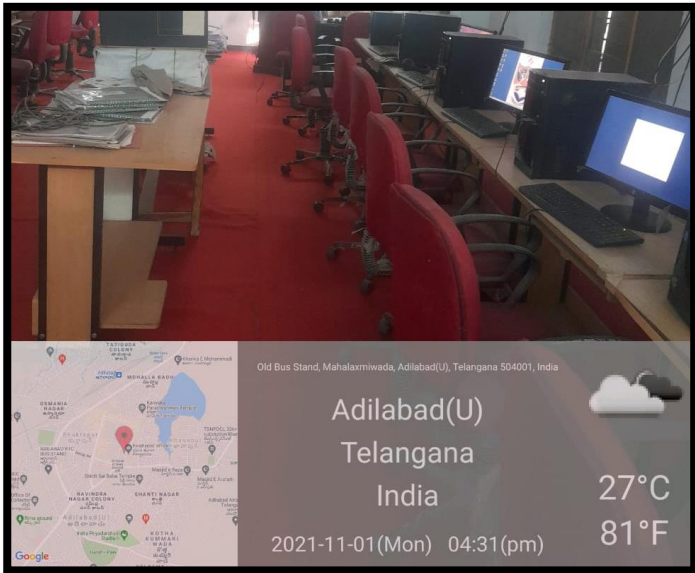
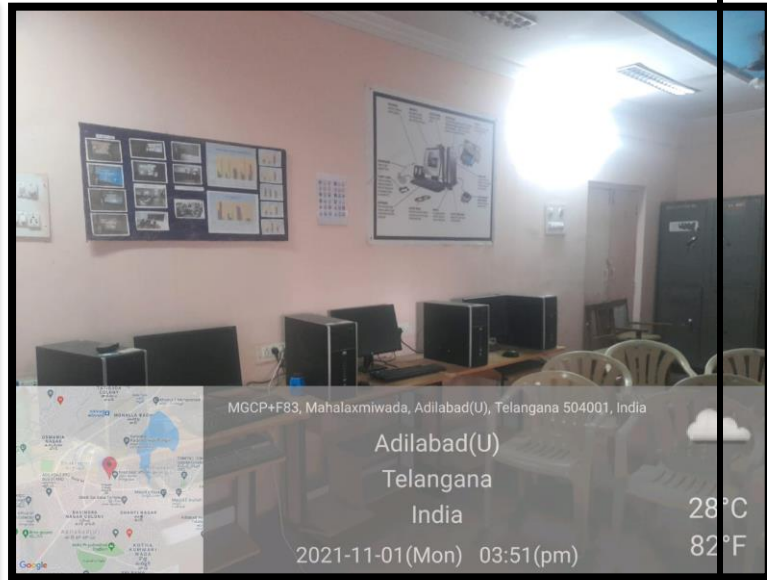
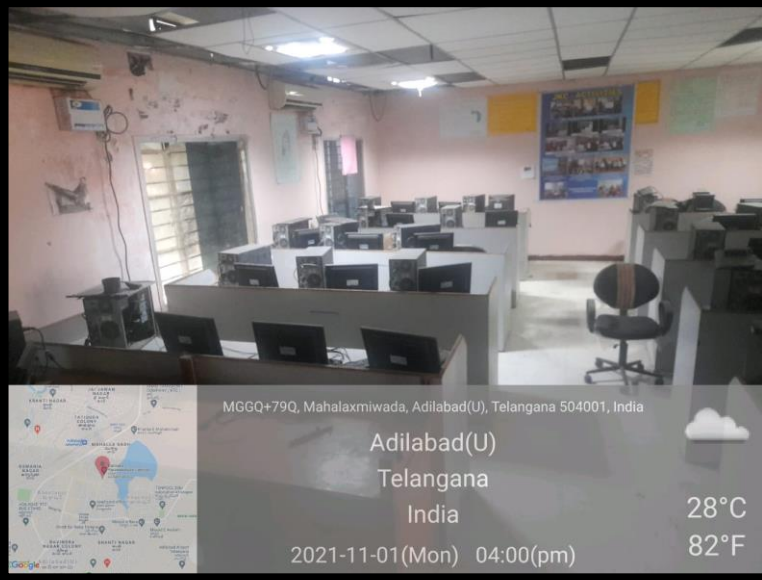
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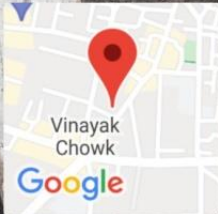
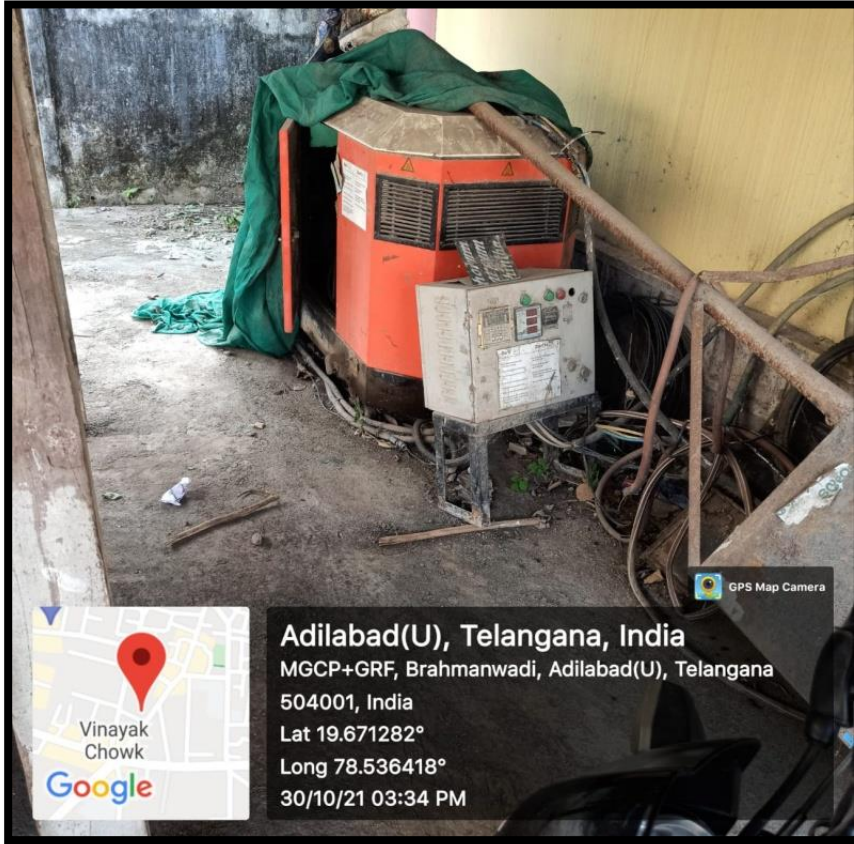
Principal (FAC)
Govt. Degree College Arts & Commerce
ADILABAD-(T.S.)

[Signature]
College Principal

Principal
Govt. Degree College for Sciences
ADILABAD-504 001 T.S.

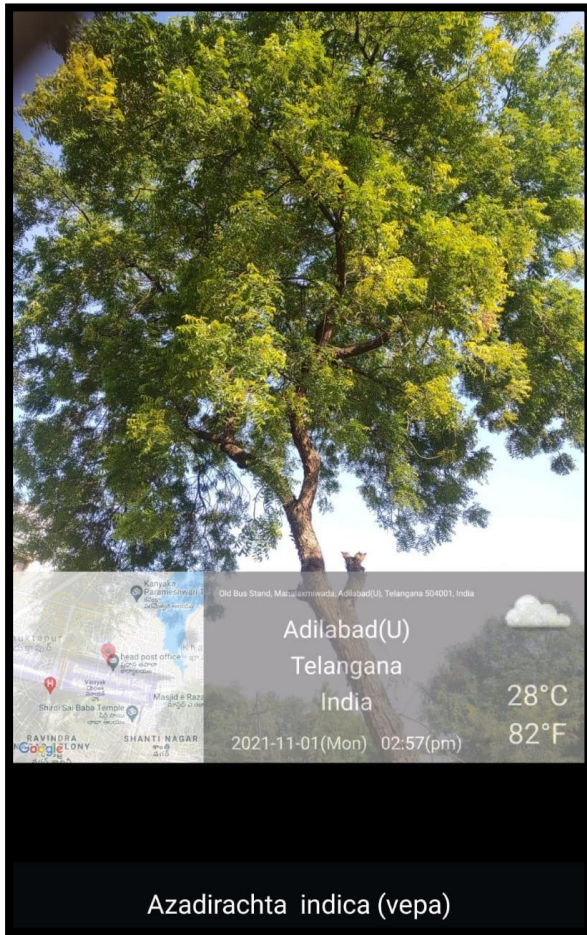
Photographs (Energy Audit Photos)





Adilabad(U), Telangana, India
MGCP+GRF, Brahmanwadi, Adilabad(U), Telangana
504001, India
Lat 19.671282°
Long 78.536418°
30/10/21 03:34 PM

Green Audit Photos



Faunal diversity college campus



Old Bus Stand, Mahabubnagar, Adilabad (U), Telangana 504001, India

Adilabad(U)
Telangana
India

28°C
82°F

2021-11-01 (Mon) 03:00 (pm)

Kandiriga

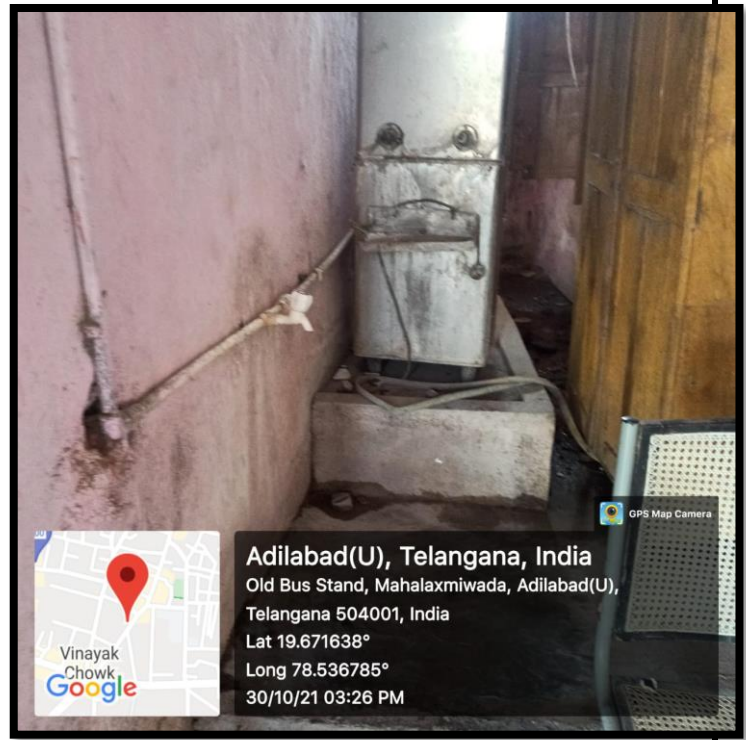


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AI QUAD CAMERA



REDMI NOTE 9 PRO MAX
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Water Audit Photos






తెలంగాణ ప్రభుత్వం
అంతర్గత నీటి నాణ్యత పర్యవేక్షణ ప్రయోగశాల
మిషన్ భగీరథ శాఖ

నీటి బాక్టీరియాలజికల్ పరీక్షపై నివేదిక (త్రాగు నీరు)

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క్రమ సంఖ్య	ల్యాబ్ క్రమ సంఖ్య	మండలం	గ్రామపంచాయతీ/ ఆవాసు (వ్యాటిటేషన్)	నీటి సమూహ సేకరించిన స్థలం	నీటి వనరు రకం	సిపెచ్ (pH)	ఐసి (EC)	డీ.డి.యస్	మొత్తం ఆల్కలీనిటీ CaCO3 గా	మొత్తం కార్బోనేట్ CaCO3 గా	క్లోరైడ్ Cl గా	ఫ్లోరైడ్ F గా	నైట్రేట్ NO3 గా	సల్ఫేట్ SO4 గా	ఇనుము Fe గా	రిమార్క్స్
కొలత యూనిట్లు						No units	µS / cm	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	
BIS : 10500-2012 ప్రకారం అంగీకారయోగ్యమైన పరిమితి - అనుమతించబడిన						(6.5-8.5)	-	(500-2000)	(200-600)	(200-600)	(250-1000)	(1.0-1.5)	45	(20-400)	(0.3-1.0)	
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			<u>Adilabad Govt Degree College</u>			<u>7.92</u>	<u>525</u>	<u>341</u>	<u>196</u>	<u>236</u>	<u>62</u>	<u>0.30</u>	<u>37</u>	<u>22.16</u>	<u>0.05</u>	
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 జిల్లా పేరు : Adilabad


 ల్యాబ్ కెమిస్ట్రీ అధికారి
Water Analy.
QWS Laboratory
ADILABAD

WASTE AUDIT PHOTOS



HARITHA HARAM PHOTOS

