To
The commissioner
Collegiate of education
Nampally ,Hydrabad,TS

RC NO;GA1/GDC/AMBD/21 Dt;30-10-2021

Respected sir

Sub; GDC AMRABAD-Submitting the green audit report- Reg

To the subject cited above,we are submitting the green audit report to your esteemed office.

This is for your kind information to your office

Thanking you sir

Principal

PRINCIPAL
GOVT. DEGREE COLLEGE
AMRABAD
(NAGARKURNOOL)

GOVERNMENT DEGREE COLLEGE .AMRABAD
GREEN AUDIT REPORT

College Profile

The Govt. Degree College, Amrabad established in the year 2008 and located in Agency Area. Mainly the moto of establishment to promote and develop Agency Tribal people, culturally and educationally recently the college shifted newly constructed building, it located in 5 Acres Land. The building has constructed with 2.25 Cores. Students strength were increasing every year. The college staff also try to developing the college and they give extra potential to students to go for higher studies. The college is available for surrounding villages in tribal agency area.

Name of the College: Govt. Degree College, Amrabad

Address: Govt. Degree College, Amrabad,

Nagarkurnool Dist. Pin Code: 509201.

Contact Info:

Campus Area 5 Acrs

Built-up Area 1 Acr

Is the building has ventilators for natural air flow in all rooms: Yes/No

The student and faculty strength of the college:

Strength	Male	Female	Total
No of students	85	152	237
No of Teaching Staff	09	02	11
No of Non-Teaching staff	06	0	06

Physical Structure

The available land of the college: __5__ acres and _____ Guntas.
The built-up area of the college:__12000_ Sq.Ft.

No. of Class Rooms	7
No. of Laboratories	5

No. of Conference halls	NIL
Library Halls	NIL
Auditorium	NIL
Canteen	NIL
Any other (please specify)	--

Objectives :	1) Promote the environment management and concentration in the college campus.. 2) Develop environmental culture in college students.
Prepared by:	Nagender R.
Approved by:	Principal (FAC)
Remarks :	College recently shifted newly constructed building, college having 5 Acres Land, We are estimating to develop a Botanical Garden in our college area.

FORMS AND SUPPORT MATERIAL	
Questionnaire Document ref. name/no.:	
Checklist for Environmental Audit Document ref. name/no.:	
Additional forms and support material:	

AUDITING FOR WATER MANAGEMENT

S.No	Description	Response	Remarks
1	List out uses of water in your college.	Gardening, Drinking and Toilets	
2	What are the sources of water in your college?	Ground Water	
3	How many wells are there in your college?	One Bore well	
4	No. of motors used for pumping water from each well?	One	
5	What is the total horse power of each motor?	1.5 HP	
6	What is the depth of each well?	300 feet's	
7	What is the present depth of water in each well?	300 feet's	
8	How does your college store water?	Bore Well	
9	Quantity of water stored in your overhead water tank? (In liters)	2 Tanks, Each Tank 1000 Litters capacity, Total 2000 Litters.	
10	Quantity of water pumped every day? (In liters)	1000 Litters	
11	If there is water wastage, specify why.	No	
12	How can the wastage be prevented / stopped?	No RO Plant, No wastage of water	
13	Locate the point of entry of water and point of exit of waste water in your College.	Entry One Place Exit Three Places	
14	Where does waste water come from?	Labs and Toilets	
15	Where does the waste water go?	Ground	
16	What are the uses of waste water in	Waste water going to	

	your college?	ground	
17	What happens to the water used in your labs? Whether it gets mixed with ground water?	Labs Not established yet.	
18	Is there any treatment for the lab water?	No	
19	Whether green chemistry methods are practiced in your labs?	No	
20	Write down four ways that could reduce the amount of water used in your college.	1. Regularly checking taps leakage 2. Regularly checking pipes leakage 3. Awareness programme conducted to students for utilization of water	
21	Record water use from the college water meter for six months.	We will try to arrange the water metre in our college.	
22	Bimonthly water charges paid to water connections if any	No tap water connection	
23	No. of water coolers. Amount of water used per day? (in liters)	No water cooler, 1000 litters per day.	
24	No. of water taps. Amount of water used per day?	Two Taps, 200 litters	
25	No. of bath rooms in staff rooms, common, hostels. Amount of water used per day?	No attached bathrooms for staff room. 9 common bathrooms We have no Hostel facility 500 Litters per day water used	
26	No. of toilet, urinals. Amount of water used per day?	Total Toilets 9 Urinals 16 500 Litters	
27	No. of water taps in the canteen. Amount of water used per day?	No Canteen	
28	Amount of water used per day for garden use.	300 Litters	

29	No. of water taps in laboratories. Amount of water used per day in each	3 Taps (2 Labs)	

	lab?		
30	Total use of water in each hostel?	No Hostel	
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	1000 Litters 300 Litters for Garden 500 Litters for Toilets 200 Litters Waste	
32	Is there any water used for agricultural purposes?	No	
33	Does your college harvest rain water?	No	
34	If yes, how many rain water harvesting units are there? (Approx. amount)	No	
35	How many of the taps are leaky? Amount of water lost per day?	No	
36	Are there signs reminding people to turn off the water? Yes / No	No	
37	Is there any waterless toilets?	No	
38	How many water fountains are there?	No	
39	How many water fountains are leaky?	No	
40	Is drip irrigation used to water plants outside? YES/NO	No	
41	How often is the garden watered?	Daily	
42	Quantity of water used to watering the ground?	No	
43	Quantity of water used for bus cleaning? (Liters per day)	No	
44	Amount of water for other uses? (Items not mentioned above)	NIL	
45	Area of the college land without tree/building canopy.	4 Acres	
46	Is there any water management plan in the college?	No	

47	Are there any water saving techniques followed in your college? What are they?	No	
48	Please share Some IDEA for how your college could save more water.	Construct water conservation pit for saving more water	

AUDITING FOR ENERGY MANAGEMENT

S.No	Description	Response	Remarks
1	List ways that you use energy in your college. (Electricity, electric stove, kettle,	Electicity	

	microwave, LPG, firewood, Petrol, diesel and others).		
2	Electricity bill amount for the last year	10000	Last year our college is runned in the junior college premises ,so bill is low
3	Amount paid for LPG cylinders for last one year	NIL	
4	Weight of firewood used per month and amount of money spent? Also mention the amount spent for petrol/diesel/ others for generators?	NIL	
5	Are there any energy saving methods employed in your college? If yes, please specify. If no, suggest some.	NIL	
6	How much money does your college spend on energy such as electricity, gas, firewood, etc. in a month?	5000	NOT IN ACCURATE depending onusage of current
7	How many CFL bulbs has your college installed? Mention use (Hours used/day for how many days in a month)	NIL	
8	Energy used by each bulb per month? (For example- 60 watt bulb x 4hours x number of bulbs = Kwh).	9.96 KW	
9	How many LED bulbs are used in your college? Mention the use (Hours used/day for how	NIL	

	many days in a month)		
10	Energy used by each bulb per month? (kWh).	0.5 KWH	
11	How many incandescent (tungsten) bulbs have your college installed? Mentions use (Hours used/day for how many days in a month)	NIL	
12	Energy used by each bulb per month? (kWh).	0.5 KWH	
13	How many fans are installed in your college? Mention use (Hours used/day for how many days in a month)	63 FANS /25 DAYS	
14	Energy used by each fan per month? (kWh).	1.4 KWH	
15	How many air conditioners are installed in your college? Mention use (Hours used/day, for how many days in a month)	NIL	
16	Energy used by each air conditioner per month? (kWh).	NIL	
17	How many electrical equipment including weighing balance are installed your college? Mention the use (Hours used/day for how many days in a month)	NIL	
18	Energy used by each electrical equipment per month? (kWh).	NIL	
19	How many computers are there in your college? Mention the use (Hours used/day for	NIL	

	how many days in a month)		
20	Energy used by each computer per month? (kWh).	3 COMPUTERS 57.75KWH	
21	How many photocopiers are installed by your college? Mention use (Hours used/day for how many days in a month).	NIL	
22	How many cooling apparatus are in installed in your college? Mention use (Hours used/day for how many days in a month)	NIL	
23	Energy used by each cooling apparatus per month? (kWh) Mention use (Hours used/day for how many days in a month)	NIL	
24	Energy used by each photocopier per month? (Kwh) Mention the use (Hours used/day for how many days in a month) how many inverters your college installed? Mentions use (Hours used/day for how many days in a month)	NIL	
25	Energy used by each inverter per month? (kWh).	NIL	NOT WORKING DUE TO BATTERRY FAILURENIL
26	How many electrical equipment are used in different labs of your college? Mention the use (Hours used/day for how many days in a month)	NIL	

27	Energy used by each equipment per month? (kWh)	NIL	
28	How many heaters are used in the canteen of your college? Mention the use (Hours used/day for how many days in a month)	NIL	
29	Energy used by each heater per month? (kWh)	NIL	
30	No of street lights in your college?	NIL	
31	Energy used by each street light per month? (kWh)	NIL	
32	No of TV in your college and hostels?	01	BUT ITS NOT WORKING
33	Energy used by each TV per month? (kWh)	22.5 KWH	
34	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)	NIL	
35	Are any alternative energy sources/nonconventional energy sources employed / installed in your college? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc..) Specify.	NIL	
36	Do you run "switch off" drills at college?	NIL	

37	Are your computers and other equipment put on power-saving mode?	NO	
38	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby mode most of the time? If yes, how many hours?	NIL	
39	What are the energy conservation methods adapted by your college?	NIL	
40	How many boards displayed for saving energy awareness?	NIL	
41	How much ash is collected after burning fire wood per day in the canteen?	NIL	THERE IS NO CANTEEN IN OUR COLLEGE
42	Write a note on the methods/practices/adaptations by which you can reduce the energy use in your college campus in future.	NIL	
	Calculation of energy for electrical appliances Appliance Power used in (watt) Usage per day (hours) Number of appliances Average kWh per day (Watt X hours X Number X 1000) Average kWh per month (Watt X hours X Number X 1000 x 30) Incandescent bulb 60 watt CFL 18 W Microwave 1000W Stove 3000W Kettle 2500W	1239.45KWH	

AUDITING FOR WASTE MANAGEMENT

S.No	Description	Response	Remarks
	What is the total strength of students, teachers and Non-teaching staff in your College?	Total Strength : 256 Teaching : Gents-7 Ladies-5	
	No. of Students; No. of Teachers; No. Non-teaching staff; Gents - Ladies Total	Male Female Students : 150 106 Teaching : 5 2 Non-Teaching: 5 0	
	Which of the following are available in your College?	--	
	Give area occupied, Garden area and Garbage dump (number)	5 Acrs., 1 Acr. NIL	
	Playground area, Laboratory,	1 Acr., 04, Nil, Nil, 03, Nil	

	Kitchen, Canteen, Toilets (number) Car/scooter shed area		
	Number of class rooms, Office rooms and others (specify)	7, 3	
	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	Nil	
	Garbage heap	Nil	
	Public convenience Sewer line	Nil	
	Stagnant water	Nil	
	Open drainage Industry – (Mention the type)	No	
	Bus / Railway station Market / shopping complex / public halls	Nil	

WASTE

	Does your college generate any waste? If so, what are they?	No	
	How much quantity?	NIL	
	Number or weight E-waste Hazardous waste (toxic)	NIL	
	Solid waste	NIL	
	Dry leaves	NIL	
	Canteen waste	NIL	
	Liquid waste	NIL	
	Glass	NIL	

	Unused equipment	--	
	Medical waste if any	NO	
	Napkins Others (Specify)	NIL	
	Is there any waste treatment system in the college?	NO	
	Is there any treatment for toilet/urinal/sanitary napkin waste?	NO (NIL)	
1	What is the approximate quantity of waste generated per day? (in Kilograms) Office Laboratories Canteen/kitchen	NIL	
2	Why waste is a problem?	--	
3	Whether waste is polluting ground/surface water? How?	NO	
4	Whether waste is polluting the air of the college? How?	NO	
5	How is the waste generated in the college managed? Methods 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	--	
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)	NIL --	
7	Do you use recycled paper in College?	NO	
8	Is there any waste wealth program practiced in the college?	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.	NIL NIL NIL	
9	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	NO	
10	Can you achieve zero garbage in your college? (Reduce, Recycle, Reuse, Refuse) If yes, how?	--	

AUDITING FOR GREEN CAMPUS MANAGEMENT

S.No	Description	Response	Remarks
1	Is there a garden in your college Area?	Yes, Limited area	The college has shifted in to new building in this regard we are planning to Establish Garden in wide area
2	Do students spend time in the garden?	No	
3	List of the plants in the garden, with approx. Number of each species	35(List Enclosed)	
4	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Rauvolfia serpentine, Withania somnifera, Syzygium cumini, *Feronia limonia*, *Erythroxylum monogynum*, *Aegle marmelos*	
5	List the species planted by the students, with numbers,	List Enclosed	
6	Whether you have displayed scientific names of the trees in the campus?	Yes	
7	Is there any plantations in your campus? If yes specify area and type of plantation.	Yes, 300 Sq yards Plantation Programme Conducted	
8	Is there any vegetable garden in your college? If yes how much area?	Yes	
9	Is there any medicinal garden in your college? If yes how much area?	No	
10	What are the vegetables cultivated in your vegetable garden? (Mention the quantity of harvest in each season)	No	
11	How much water is used in the vegetable garden and other gardens? (Mention the source and quantity of water used).	No	
12	Who is in charge of gardens in your college?	S. Kurumaiah	

13	Are you using any type of recycled water in your garden?	No	
14	List the name and quantity of pesticides and fertilizers used in your gardens?	No	
15	Whether you are doing organic farming in your college? How?	No	
16	Do you have any composting pit in your college? If yes, What doing with the compost generated? are you	No	
17	What do you doing with the vegetables harvested? Do you have anystudent market?	No	
18	Is there any botanical garden in your campus? If yes give the details of campus flora.	No, Planning to Establish Botanical Garden	
19	Give the number and names of the medicinal plants in your college campus.	No	
20	Any threatened plant species planted/conserved?	No	
21	Is there a nature club in your college? If yes what are their activities?	No	
22	Is there any arboretum in your college? If yes details of the trees planted	No	
23	Is there any fruit yielding plants in your college? If yes details of the trees planted.	No	
24	Is there any groves in your college? If yes details of the trees planted.	No	
25	Is there any irrigation system in your college?	No, Plastic pipes using put to water to planted trees	
26	What is the type of vegetation in the surrounding area of the college?	Southern tropical dry mixed deciduous forest	
27	What are the nature awareness programmes conducted in the campus?	Not Available	
28	What is the involvement of students in the green cover maintenance?	Student are Participating various methods like Harithaharam ,NSS for improving Green campus	
29	What is the total area of the campus under tree cover? Or under tree canopy?	30%	

30	Share your IDEAS for further improvement of green cover.	For improvement of Green cover in the college campus Establishment of Garden in wide area ,Botanical garden Along with Medicinal plants	

AUDITING FOR CARBON FOOTPRINT

S. No	Description	Response	Remarks
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	Total Strength : 253 Total Students : 237 Male : 85 Female : 152 No of Teachers : 11 (Female 2, Male 9) No. of Non-Teaching : 5 (Male 5)	
2	Total Number of vehicles used by the stakeholders of the college. (per day)	9 Two wheelers	
3	No. of cycles used	NIL	
4	No. of two wheelers used (average distance travelled and quantity of fuel and amount used per day)	9 two wheelers used 55 KM, fuel 10 Litters	
5	No. of cars used (average distance travelled and quantity of fuel and amount used per day)	NIL	
6	No. persons using common (public) transportation (average distance travelled and quantity of fuel and amount used per day)	197 Numbers 89 Litters Diesel	
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)	210 Students : 197 Non-teaching staff : 5 Teaching staff : 8 89 Litters Diesel 7 Litters Petrol	
8	Number of parent-teacher meetings in a year? Parents turned up (approx.)	2	
9	Number of visitors with vehicles per day?	2	

10	Number of generators used per day (hours). Give the amount of fuel used per day.	NIL	
11	Number of LPG cylinders used in the canteen (Give the amount of fuel used per day and amount spent).	NIL	
12	Quantity of kerosene used in the canteen/labs (Give the amount of fuel used per day and amount spent).	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.	NIL	
14	Amount of taxi/auto charges paid per month for the transportation of office goods to the college.	NIL	
15	Average amount of taxi/auto charges paid per month by the stakeholders of the college.	NIL	
16	Use of any other fossil fuels in the college (Give the amount of fuel used per day and amount spent).	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.	2 Numbers use the one bike	
18	Are the Rooms in Campus are Well Ventilated? Yes/No	Yes	
19	Window Floor ratio of the Rooms Good/Not Enough	Good	

	<u>Carbon Footprint - Sample Report</u>		
	• Petrol used by two wheelers/day–	9 two wheelers	

	229 L	Used by 10 Litters Petrol per day	
	• (Per person to and fro 40 Kms=1L) Fuel used by four wheelers (52 Persons) - 104 L	90 Litters Diesel	
	• (Per person to and fro 40 Kms=2L) Fuel for persons (total 2314 persons) travelling by common	90 Litters Diesel 10 Litters Petrol	
	• Transportation =184 L (4L x 50 persons) Total fossil fuel use is 517 L / day Total fuel cost per day for transportation =Rs. 36190/- (517 L x Rs 70) Cost of stakeholder transportation per month (Rs.36190x22 days)- Rs.796180	100 Litters 90 Litters Diesel x Rs. 99 = 8910 Rs. 8910 x 22 Days = Rs. 196020 10 L Petrol x Rs. 107 = 1070 Rs. 1070 x 22 Days = Rs. 23540	

1. Water management

SL NO	PARAMETERS	Response	Remarks
1	Source of water	Bore well	

2	No. of Wells	One	
3	No. of motors used	One	
4	Horse power – Motor	1.5 HP	
5	Depth of well –Total	300 Ft.	
6	Water level	300 Ft. Adequate	
7	Number of water tanks	Two	
8	Capacity of tank	2000 Ltrs.	
9	Quantity of water pumped every day	1000 Ltrs.	
10	Any water wastage/why?	No	
11	Water usage for gardening	300 Ltrs.	
12	Waste water sources	Toilets	
13	Use of waste water	--	
14	Faith of waste water from labs	--	
15	Whether waste water from labs mixed with ground water	--	
16	Any treatment for lab water	No	
17	Whether any green chemistry method practiced in labs	No	
18	No. of water coolers	No	
19	Rain water harvest available?	No	
20	No. of units and amount of water harvested	No	
21	Any leaky taps	No	
22	Amount of water lost per day	NIL	
23	Any water management plan used?	No	
24	Any water saving techniques followed?	Yes	
25	Are there any signs reminding peoples to turn off the water?	Yes	

Results of water quality

Parameters	Bore	Municipal	Standard value (BIS)

	Well water	Tap water	
Dissolved Oxygen (mg/l)			6-8
Acidity (mg/l)			200
Alkalinity (mg/l)			200
Chloride (mg/l)			250
Hardness (Total)			200
Conductivity (µs)			
Ph.			6.5-8.5
Total Dissolved Solids (ppm)			500
Salinity (ppt)			
Total coliform			0
Fecal coliform			0

Water Quality analysis (Biological) report of college – II (with Photographic evidence)

S.No	Parameter/ WHO permissible level	Zooplankton (No of Samples/Sites)	Methodology
1	Protozoan (Ciliates)		
2	Rotifers		
3	Ostracods		
4	Insect Larvae		
5	Water Fleas		
6	Bivalves		
7	Snails		
8	Mussels		
9	Any Other (Specify)		

Water Quality analysis (Biological) report of college – II (with Photographic evidence):

S.No	Phytoplanktons	Scientific Name and number	Methodology
1	Diatoms (Bacillariophyceae)		

2	Dinoflagellates (Dinophyceae)		
3	Coccolithophores (Prymnesiophyceae)		
4	Green algae (Chlorophyceae)		
5	Cyanobacteria (earlier Blue-green algae)		
6	Others (specify)		

1. Enargy Audit

S.No	Room no-Name	Electrical device/items	number	power	Total power	usage time(hr/day)
1	Principal	6 Tubes + 5 Fans +	17	20 W	2025w	9:00am -6:00pm (9 Hr.)

	Chamber	1 System + 1 Printer + 1 TV + 2 UPS + 1 Exhauster Fan + 2 Table Fans		+56W+110W+75 W+36W+150W+7 0W+35+W		
2	Office ROOM	2Tubes+2Fans	4	20w+56w	228w	9:00am -6:00pm (9 Hr.)
3	LECTURER HALL-1	6Tubes+6Fans+1 Virtual Lab	13	20w+56w+150w	606w	9:30am-4:00pm (6 HR)
4	LECTURER HALL-2	6Tubes+6Fans+1 Projecter+ 1System	14	20w+56w+150w+ 110w	716w	9:30am-4:00pm (6 HR)
5	LECTURER HALL-3	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
6	LECTURER HALL-4	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
7	LECTURER HALL-5	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
8	LECTURER HALL-6	6Tubes+6Fans+1 Projecter	13	20w+56w+150w	606w	9:30am-4:00pm (6 HR)
9	LECTURER HALL-7	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
10	Botany Store Room	2Tubes+2Fans	4	20w+56w	456w	9:30am-4:00pm (6 HR)
11	Chemistry Store Room	2Tubes+2Fans	4	20w+56w	152W	9:30am-4:00pm (6 HR)
12	Zoology Store Room	2Tubes+2Fans	4	20w+56w	152W	9:30am-4:00pm (6 HR)
13	Ladies Waiting Hall	4Tubes+4Fans	8	20w+56w	304w	9:30am-4:00pm (6 HR)
14	Ladies Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
15	Gents Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
16	Staff Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
17	Street lights	4Lights	4	40w	160w	6:30pm-5:30am (11 hr)
18	Flud lights	2 Lights	2	150w	300w	6:30pm-5:30am (11 hr)
19	Fister Floor Caridar	2Tubes +2 bules	4	20w+60W	160w	9:30am-4:00pm (6 HR)
20	NSS Room	2Tubes+2Fans	4	20w+60W	160w	9:30am-4:00pm (6 HR)
21	Examination Branch	2Tubes+2Fans + 1 System	5	20w+56w+110w	262w	9:30am-4:00pm (6 HR)
22	Ground Floor caridar	13 tubes+ 2 bules	15	20w+60W	380w	9:30am-4:00pm (6 HR)

2. Waste management

Approximate quantity of waste generated per day (in kg)

Office				
Approx.	Biodegradable	Non -Biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

Laboratories				
Approx.	Biodegradable	Non - Biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

Canteen/kitchen				
Approx.	Biodegradable	Non - biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

How the waste generated in the college is managed?

A)Composting/ Vermicomposting	Yes/ No	Remark
B)Recycling	NO	--
C)Reusing	NO	--
D)Other ways	NIL	--

Waste generated in the college?

E-waste		NIL
Hazardous waste		NIL
Solid waste		NIL
Dry leaves		NIL
Canteen waste		NO CANTEEN
Liquid waste		NIL
Glass		NIL
Unused Equipment		NIL
Napkins		NIL
Others (specify)		NO

Do you use recycled paper in college?	NO
Any waste management methods used?	NO

GREEN AUDIT-ENERGY AUDIT.

S.No	Electrical appliances/instruments	number	power(w)/unit	Total power (W)	KW	Operation/day	KW/Hr	No.of days in month	total Consumption per month
1	Tubes	83	20w	1660 w	1.66	6	9.96	25	249
2	Fans	63	56w	3528	3.52	6	21.1	25	529.2

				w	8		68		
3	Printers	1	75w	75w	0.075	4	0.3	25	7.5
4	UPS	2	150w	300w	0.3	12	3.6	25	90
5	Projecters	3	150w	450w	0.45	4	1.8	25	45
6	Exhauster Fans	4	70w	280w	0.28	6	1.68	25	42
7	TV	1	36w	36w	0.3	3	0.9	25	22.5
8	Table Fans	2	35w	70w	0.7	4	2.8	25	70
9	Street Lights	4	40w	160w	0.16	11	1.76	25	44
10	Flud Lights	2	150w	300w	0.3	11	3.3	25	82.5
11	Systems	3	110w	330w	0.33	7	2.31	25	57.75
TOTAL		168	892w	7189w	8.083	74	49.578	275	1239.45

principal

PRINCIPAL
GOVT. DEGREE COLLEGE
AMRABAD
(NAGARKURNOOL)

GOVERNMENT DEGREE COLLEGE .AMRABAD
GREEN AUDIT REPORT

College Profile

The Govt. Degree College, Amrabad established in the year 2008 and located in Agency Area. Mainly the moto of establishment to promote and develop Agency Tribal people, culturally and educationally recently the college shifted newly constructed building, it located in 5 Acres Land. The building has constructed with 2.25 Cores. Students strength were increasing every year. The college staff also try to developing the college and they give extra potential to students to go for higher studies. The college is available for surrounding villages in tribal agency area.

Name of the College: Govt. Degree College, Amrabad

Address: Govt. Degree College, Amrabad,

Nagarkurnool Dist. Pin Code: 509201.

Contact Info:

Campus Area 5 Acrs

Built-up Area 1 Acr

Is the building has ventilators for natural air flow in all rooms: Yes/No

The student and faculty strength of the college:

Strength	Male	Female	Total
No of students	85	152	237
No of Teaching Staff	09	02	11
No of Non-Teaching staff	06	0	06

Physical Structure

The available land of the college: __5__ acres and _____ Guntas.
The built-up area of the college:__12000_ Sq.Ft.

No. of Class Rooms	7
No. of Laboratories	5

No. of Conference halls	NIL
Library Halls	NIL
Auditorium	NIL
Canteen	NIL
Any other (please specify)	--

Objectives :	1) Promote the environment management and concentration in the college campus.. 2) Develop environmental culture in college students.
Prepared by:	Nagender R.
Approved by:	Principal (FAC)
Remarks :	College recently shifted newly constructed building, college having 5 Acres Land, We are estimating to develop a Botanical Garden in our college area.

FORMS AND SUPPORT MATERIAL	
Questionnaire Document ref. name/no.:	
Checklist for Environmental Audit Document ref. name/no.:	
Additional forms and support material:	

AUDITING FOR WATER MANAGEMENT

S.No	Description	Response	Remarks
1	List out uses of water in your college.	Gardening, Drinking and Toilets	
2	What are the sources of water in your college?	Ground Water	
3	How many wells are there in your college?	One Bore well	
4	No. of motors used for pumping water from each well?	One	
5	What is the total horse power of each motor?	1.5 HP	
6	What is the depth of each well?	300 feet's	
7	What is the present depth of water in each well?	300 feet's	
8	How does your college store water?	Bore Well	
9	Quantity of water stored in your overhead water tank? (In liters)	2 Tanks, Each Tank 1000 Litters capacity, Total 2000 Litters.	
10	Quantity of water pumped every day? (In liters)	1000 Litters	
11	If there is water wastage, specify why.	No	
12	How can the wastage be prevented / stopped?	No RO Plant, No wastage of water	
13	Locate the point of entry of water and point of exit of waste water in your College.	Entry One Place Exit Three Places	
14	Where does waste water come from?	Labs and Toilets	
15	Where does the waste water go?	Ground	
16	What are the uses of waste water in	Waste water going to	

	your college?	ground	
17	What happens to the water used in your labs? Whether it gets mixed with ground water?	Labs Not established yet.	
18	Is there any treatment for the lab water?	No	
19	Whether green chemistry methods are practiced in your labs?	No	
20	Write down four ways that could reduce the amount of water used in your college.	1. Regularly checking taps leakage 2. Regularly checking pipes leakage 3. Awareness programme conducted to students for utilization of water	
21	Record water use from the college water meter for six months.	We will try to arrange the water metre in our college.	
22	Bimonthly water charges paid to water connections if any	No tap water connection	
23	No. of water coolers. Amount of water used per day? (in liters)	No water cooler, 1000 litters per day.	
24	No. of water taps. Amount of water used per day?	Two Taps, 200 litters	
25	No. of bath rooms in staff rooms, common, hostels. Amount of water used per day?	No attached bathrooms for staff room. 9 common bathrooms We have no Hostel facility 500 Litters per day water used	
26	No. of toilet, urinals. Amount of water used per day?	Total Toilets 9 Urinals 16 500 Litters	
27	No. of water taps in the canteen. Amount of water used per day?	No Canteen	
28	Amount of water used per day for garden use.	300 Litters	

29	No. of water taps in laboratories. Amount of water used per day in each	3 Taps (2 Labs)	

	lab?		
30	Total use of water in each hostel?	No Hostel	
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	1000 Litters 300 Litters for Garden 500 Litters for Toilets 200 Litters Waste	
32	Is there any water used for agricultural purposes?	No	
33	Does your college harvest rain water?	No	
34	If yes, how many rain water harvesting units are there? (Approx. amount)	No	
35	How many of the taps are leaky? Amount of water lost per day?	No	
36	Are there signs reminding people to turn off the water? Yes / No	No	
37	Is there any waterless toilets?	No	
38	How many water fountains are there?	No	
39	How many water fountains are leaky?	No	
40	Is drip irrigation used to water plants outside? YES/NO	No	
41	How often is the garden watered?	Daily	
42	Quantity of water used to watering the ground?	No	
43	Quantity of water used for bus cleaning? (Liters per day)	No	
44	Amount of water for other uses? (Items not mentioned above)	NIL	
45	Area of the college land without tree/building canopy.	4 Acres	
46	Is there any water management plan in the college?	No	

47	Are there any water saving techniques followed in your college? What are they?	No	
48	Please share Some IDEA for how your college could save more water.	Construct water conservation pit for saving more water	

AUDITING FOR ENERGY MANAGEMENT

S.No	Description	Response	Remarks
1	List ways that you use energy in your college. (Electricity, electric stove, kettle,	Electicity	

	microwave, LPG, firewood, Petrol, diesel and others).		
2	Electricity bill amount for the last year	10000	Last year our college is runned in the junior college premises ,so bill is low
3	Amount paid for LPG cylinders for last one year	NIL	
4	Weight of firewood used per month and amount of money spent? Also mention the amount spent for petrol/diesel/ others for generators?	NIL	
5	Are there any energy saving methods employed in your college? If yes, please specify. If no, suggest some.	NIL	
6	How much money does your college spend on energy such as electricity, gas, firewood, etc. in a month?	5000	NOT IN ACCURATE depending onusage of current
7	How many CFL bulbs has your college installed? Mention use (Hours used/day for how many days in a month)	NIL	
8	Energy used by each bulb per month? (For example- 60 watt bulb x 4hours x number of bulbs = Kwh).	9.96 KW	
9	How many LED bulbs are used in your college? Mention the use (Hours used/day for how	NIL	

	many days in a month)		
10	Energy used by each bulb per month? (kWh).	0.5 KWH	
11	How many incandescent (tungsten) bulbs have your college installed? Mentions use (Hours used/day for how many days in a month)	NIL	
12	Energy used by each bulb per month? (kWh).	0.5 KWH	
13	How many fans are installed in your college? Mention use (Hours used/day for how many days in a month)	63 FANS /25 DAYS	
14	Energy used by each fan per month? (kWh).	1.4 KWH	
15	How many air conditioners are installed in your college? Mention use (Hours used/day, for how many days in a month)	NIL	
16	Energy used by each air conditioner per month? (kWh).	NIL	
17	How many electrical equipment including weighing balance are installed your college? Mention the use (Hours used/day for how many days in a month)	NIL	
18	Energy used by each electrical equipment per month? (kWh).	NIL	
19	How many computers are there in your college? Mention the use (Hours used/day for	NIL	

	how many days in a month)		
20	Energy used by each computer per month? (kWh).	3 COMPUTERS 57.75KWH	
21	How many photocopiers are installed by your college? Mention use (Hours used/day for how many days in a month).	NIL	
22	How many cooling apparatus are in installed in your college? Mention use (Hours used/day for how many days in a month)	NIL	
23	Energy used by each cooling apparatus per month? (kWh) Mention use (Hours used/day for how many days in a month)	NIL	
24	Energy used by each photocopier per month? (Kwh) Mention the use (Hours used/day for how many days in a month) how many inverters your college installed? Mentions use (Hours used/day for how many days in a month)	NIL	
25	Energy used by each inverter per month? (kWh).	NIL	NOT WORKING DUE TO BATTERRY FAILURENIL
26	How many electrical equipment are used in different labs of your college? Mention the use (Hours used/day for how many days in a month)	NIL	

27	Energy used by each equipment per month? (kWh)	NIL	
28	How many heaters are used in the canteen of your college? Mention the use (Hours used/day for how many days in a month)	NIL	
29	Energy used by each heater per month? (kWh)	NIL	
30	No of street lights in your college?	NIL	
31	Energy used by each street light per month? (kWh)	NIL	
32	No of TV in your college and hostels?	01	BUT ITS NOT WORKING
33	Energy used by each TV per month? (kWh)	22.5 KWH	
34	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)	NIL	
35	Are any alternative energy sources/nonconventional energy sources employed / installed in your college? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc..) Specify.	NIL	
36	Do you run "switch off" drills at college?	NIL	

37	Are your computers and other equipment put on power-saving mode?	NO	
38	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby mode most of the time? If yes, how many hours?	NIL	
39	What are the energy conservation methods adapted by your college?	NIL	
40	How many boards displayed for saving energy awareness?	NIL	
41	How much ash is collected after burning fire wood per day in the canteen?	NIL	THERE IS NO CANTEEN IN OUR COLLEGE
42	Write a note on the methods/practices/adaptations by which you can reduce the energy use in your college campus in future.	NIL	
	Calculation of energy for electrical appliances Appliance Power used in (watt) Usage per day (hours) Number of appliances Average kWh per day (Watt X hours X Number X 1000) Average kWh per month (Watt X hours X Number X 1000 x 30) Incandescent bulb 60 watt CFL 18 W Microwave 1000W Stove 3000W Kettle 2500W	1239.45KWH	

AUDITING FOR WASTE MANAGEMENT

S.No	Description	Response	Remarks
	What is the total strength of students, teachers and Non-teaching staff in your College?	Total Strength : 256 Teaching : Gents-7 Ladies-5	
	No. of Students; No. of Teachers; No. Non-teaching staff; Gents - Ladies Total	Male Female Students : 150 106 Teaching : 5 2 Non-Teaching: 5 0	
	Which of the following are available in your College?	--	
	Give area occupied, Garden area and Garbage dump (number)	5 Acrs., 1 Acr. NIL	
	Playground area, Laboratory,	1 Acr., 04, Nil, Nil, 03, Nil	

	Kitchen, Canteen, Toilets (number) Car/scooter shed area		
	Number of class rooms, Office rooms and others (specify)	7, 3	
	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	Nil	
	Garbage heap	Nil	
	Public convenience Sewer line	Nil	
	Stagnant water	Nil	
	Open drainage Industry – (Mention the type)	No	
	Bus / Railway station Market / shopping complex / public halls	Nil	

WASTE

	Does your college generate any waste? If so, what are they?	No	
	How much quantity?	NIL	
	Number or weight E-waste Hazardous waste (toxic)	NIL	
	Solid waste	NIL	
	Dry leaves	NIL	
	Canteen waste	NIL	
	Liquid waste	NIL	
	Glass	NIL	

	Unused equipment	--	
	Medical waste if any	NO	
	Napkins Others (Specify)	NIL	
	Is there any waste treatment system in the college?	NO	
	Is there any treatment for toilet/urinal/sanitary napkin waste?	NO (NIL)	
1	What is the approximate quantity of waste generated per day? (in Kilograms) Office Laboratories Canteen/kitchen	NIL	
2	Why waste is a problem?	--	
3	Whether waste is polluting ground/surface water? How?	NO	
4	Whether waste is polluting the air of the college? How?	NO	
5	How is the waste generated in the college managed? Methods 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	--	
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)	NIL --	
7	Do you use recycled paper in College?	NO	
8	Is there any waste wealth program practiced in the college?	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.	NIL NIL NIL	
9	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	NO	
10	Can you achieve zero garbage in your college? (Reduce, Recycle, Reuse, Refuse) If yes, how?	--	

AUDITING FOR GREEN CAMPUS MANAGEMENT

S.No	Description	Response	Remarks
1	Is there a garden in your college Area?	Yes, Limited area	The college has shifted in to new building in this regard we are planning to Establish Garden in wide area
2	Do students spend time in the garden?	No	
3	List of the plants in the garden, with approx. Number of each species	35(List Enclosed)	
4	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Rauvolfia serpentine, Withania somnifera, Syzygium cumini, *Feronia limonia*, *Erythroxylum monogynum*, *Aegle marmelos*	
5	List the species planted by the students, with numbers,	List Enclosed	
6	Whether you have displayed scientific names of the trees in the campus?	Yes	
7	Is there any plantations in your campus? If yes specify area and type of plantation.	Yes, 300 Sq yards Plantation Programme Conducted	
8	Is there any vegetable garden in your college? If yes how much area?	Yes	
9	Is there any medicinal garden in your college? If yes how much area?	No	
10	What are the vegetables cultivated in your vegetable garden? (Mention the quantity of harvest in each season)	No	
11	How much water is used in the vegetable garden and other gardens? (Mention the source and quantity of water used).	No	
12	Who is in charge of gardens in your college?	S. Kurumaiah	

13	Are you using any type of recycled water in your garden?	No	
14	List the name and quantity of pesticides and fertilizers used in your gardens?	No	
15	Whether you are doing organic farming in your college? How?	No	
16	Do you have any composting pit in your college? If yes, What doing with the compost generated? are you	No	
17	What do you doing with the vegetables harvested? Do you have anystudent market?	No	
18	Is there any botanical garden in your campus? If yes give the details of campus flora.	No, Planning to Establish Botanical Garden	
19	Give the number and names of the medicinal plants in your college campus.	No	
20	Any threatened plant species planted/conserved?	No	
21	Is there a nature club in your college? If yes what are their activities?	No	
22	Is there any arboretum in your college? If yes details of the trees planted	No	
23	Is there any fruit yielding plants in your college? If yes details of the trees planted.	No	
24	Is there any groves in your college? If yes details of the trees planted.	No	
25	Is there any irrigation system in your college?	No, Plastic pipes using put to water to planted trees	
26	What is the type of vegetation in the surrounding area of the college?	Southern tropical dry mixed deciduous forest	
27	What are the nature awareness programmes conducted in the campus?	Not Available	
28	What is the involvement of students in the green cover maintenance?	Student are Participating various methods like Harithaharam ,NSS for improving Green campus	
29	What is the total area of the campus under tree cover? Or under tree canopy?	30%	

30	Share your IDEAS for further improvement of green cover.	For improvement of Green cover in the college campus Establishment of Garden in wide area ,Botanical garden Along with Medicinal plants	

AUDITING FOR CARBON FOOTPRINT

S. No	Description	Response	Remarks
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	Total Strength : 253 Total Students : 237 Male : 85 Female : 152 No of Teachers : 11 (Female 2, Male 9) No. of Non-Teaching : 5 (Male 5)	
2	Total Number of vehicles used by the stakeholders of the college. (per day)	9 Two wheelers	
3	No. of cycles used	NIL	
4	No. of two wheelers used (average distance travelled and quantity of fuel and amount used per day)	9 two wheelers used 55 KM, fuel 10 Litters	
5	No. of cars used (average distance travelled and quantity of fuel and amount used per day)	NIL	
6	No. persons using common (public) transportation (average distance travelled and quantity of fuel and amount used per day)	197 Numbers 89 Litters Diesel	
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)	210 Students : 197 Non-teaching staff : 5 Teaching staff : 8 89 Litters Diesel 7 Litters Petrol	
8	Number of parent-teacher meetings in a year? Parents turned up (approx.)	2	
9	Number of visitors with vehicles per day?	2	

10	Number of generators used per day (hours). Give the amount of fuel used per day.	NIL	
11	Number of LPG cylinders used in the canteen (Give the amount of fuel used per day and amount spent).	NIL	
12	Quantity of kerosene used in the canteen/labs (Give the amount of fuel used per day and amount spent).	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.	NIL	
14	Amount of taxi/auto charges paid per month for the transportation of office goods to the college.	NIL	
15	Average amount of taxi/auto charges paid per month by the stakeholders of the college.	NIL	
16	Use of any other fossil fuels in the college (Give the amount of fuel used per day and amount spent).	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.	2 Numbers use the one bike	
18	Are the Rooms in Campus are Well Ventilated? Yes/No	Yes	
19	Window Floor ratio of the Rooms Good/Not Enough	Good	

	<u>Carbon Footprint - Sample Report</u>		
	• Petrol used by two wheelers/day–	9 two wheelers	

	229 L	Used by 10 Litters Petrol per day	
	• (Per person to and fro 40 Kms=1L) Fuel used by four wheelers (52 Persons) - 104 L	90 Litters Diesel	
	• (Per person to and fro 40 Kms=2L) Fuel for persons (total 2314 persons) travelling by common	90 Litters Diesel 10 Litters Petrol	
	• Transportation =184 L (4L x 50 persons) Total fossil fuel use is 517 L / day Total fuel cost per day for transportation =Rs. 36190/- (517 L x Rs 70) Cost of stakeholder transportation per month (Rs.36190x22 days)- Rs.796180	100 Litters 90 Litters Diesel x Rs. 99 = 8910 Rs. 8910 x 22 Days = Rs. 196020 10 L Petrol x Rs. 107 = 1070 Rs. 1070 x 22 Days = Rs. 23540	

1. Water management

SL NO	PARAMETERS	Response	Remarks
1	Source of water	Bore well	

2	No. of Wells	One	
3	No. of motors used	One	
4	Horse power – Motor	1.5 HP	
5	Depth of well –Total	300 Ft.	
6	Water level	300 Ft. Adequate	
7	Number of water tanks	Two	
8	Capacity of tank	2000 Ltrs.	
9	Quantity of water pumped every day	1000 Ltrs.	
10	Any water wastage/why?	No	
11	Water usage for gardening	300 Ltrs.	
12	Waste water sources	Toilets	
13	Use of waste water	--	
14	Faith of waste water from labs	--	
15	Whether waste water from labs mixed with ground water	--	
16	Any treatment for lab water	No	
17	Whether any green chemistry method practiced in labs	No	
18	No. of water coolers	No	
19	Rain water harvest available?	No	
20	No. of units and amount of water harvested	No	
21	Any leaky taps	No	
22	Amount of water lost per day	NIL	
23	Any water management plan used?	No	
24	Any water saving techniques followed?	Yes	
25	Are there any signs reminding peoples to turn off the water?	Yes	

Results of water quality

Parameters	Bore	Municipal	Standard value (BIS)

	Well water	Tap water	
Dissolved Oxygen (mg/l)			6-8
Acidity (mg/l)			200
Alkalinity (mg/l)			200
Chloride (mg/l)			250
Hardness (Total)			200
Conductivity (µs)			
Ph.			6.5-8.5
Total Dissolved Solids (ppm)			500
Salinity (ppt)			
Total coliform			0
Fecal coliform			0

Water Quality analysis (Biological) report of college – II (with Photographic evidence)

S.No	Parameter/ WHO permissible level	Zooplankton (No of Samples/Sites)	Methodology
1	Protozoan (Ciliates)		
2	Rotifers		
3	Ostracods		
4	Insect Larvae		
5	Water Fleas		
6	Bivalves		
7	Snails		
8	Mussels		
9	Any Other (Specify)		

Water Quality analysis (Biological) report of college – II (with Photographic evidence):

S.No	Phytoplanktons	Scientific Name and number	Methodology
1	Diatoms (Bacillariophyceae)		

2	Dinoflagellates (Dinophyceae)		
3	Coccolithophores (Prymnesiophyceae)		
4	Green algae (Chlorophyceae)		
5	Cyanobacteria (earlier Blue-green algae)		
6	Others (specify)		

1. Enargy Audit

S.No	Room no-Name	Electrical device/items	number	power	Total power	usage time(hr/day)
1	Principal	6 Tubes + 5 Fans +	17	20 W	2025w	9:00am -6:00pm (9 Hr.)

	Chamber	1 System + 1 Printer + 1 TV + 2 UPS + 1 Exhauster Fan + 2 Table Fans		+56W+110W+75 W+36W+150W+7 0W+35+W		
2	Office ROOM	2Tubes+2Fans	4	20w+56w	228w	9:00am -6:00pm (9 Hr.)
3	LECTURER HALL-1	6Tubes+6Fans+1 Virtual Lab	13	20w+56w+150w	606w	9:30am-4:00pm (6 HR)
4	LECTURER HALL-2	6Tubes+6Fans+1 Projecter+ 1System	14	20w+56w+150w+ 110w	716w	9:30am-4:00pm (6 HR)
5	LECTURER HALL-3	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
6	LECTURER HALL-4	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
7	LECTURER HALL-5	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
8	LECTURER HALL-6	6Tubes+6Fans+1 Projecter	13	20w+56w+150w	606w	9:30am-4:00pm (6 HR)
9	LECTURER HALL-7	6Tubes+6Fans	12	20w+56w	456w	9:30am-4:00pm (6 HR)
10	Botany Store Room	2Tubes+2Fans	4	20w+56w	456w	9:30am-4:00pm (6 HR)
11	Chemistry Store Room	2Tubes+2Fans	4	20w+56w	152W	9:30am-4:00pm (6 HR)
12	Zoology Store Room	2Tubes+2Fans	4	20w+56w	152W	9:30am-4:00pm (6 HR)
13	Ladies Waiting Hall	4Tubes+4Fans	8	20w+56w	304w	9:30am-4:00pm (6 HR)
14	Ladies Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
15	Gents Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
16	Staff Toilets	2Tubes+1Exhauster Fan	3	20w+70w	90w	9:30am-4:00pm (6 HR)
17	Street lights	4Lights	4	40w	160w	6:30pm-5:30am (11 hr)
18	Flud lights	2 Lights	2	150w	300w	6:30pm-5:30am (11 hr)
19	Fister Floor Caridar	2Tubes +2 bules	4	20w+60W	160w	9:30am-4:00pm (6 HR)
20	NSS Room	2Tubes+2Fans	4	20w+60W	160w	9:30am-4:00pm (6 HR)
21	Examination Branch	2Tubes+2Fans + 1 System	5	20w+56w+110w	262w	9:30am-4:00pm (6 HR)
22	Ground Floor caridar	13 tubes+ 2 bules	15	20w+60W	380w	9:30am-4:00pm (6 HR)

2. Waste management

Approximate quantity of waste generated per day (in kg)

Office				
Approx.	Biodegradable	Non -Biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

Laboratories				
Approx.	Biodegradable	Non - Biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

Canteen/kitchen				
Approx.	Biodegradable	Non - biodegradable	Hazardous	Others
<1Kg	NIL	NIL	NIL	NIL
2-10Kg	NIL	NIL	NIL	NIL
>10Kg	NIL	NIL	NIL	NIL

How the waste generated in the college is managed?

A)Composting/ Vermicomposting	Yes/ No	Remark
B)Recycling	NO	--
C)Reusing	NO	--
D)Other ways	NIL	--

Waste generated in the college?

E-waste		NIL
Hazardous waste		NIL
Solid waste		NIL
Dry leaves		NIL
Canteen waste		NO CANTEEN
Liquid waste		NIL
Glass		NIL
Unused Equipment		NIL
Napkins		NIL
Others (specify)		NO

Do you use recycled paper in college?	NO
Any waste management methods used?	NO

GREEN AUDIT-ENERGY AUDIT.

S.No	Electrical appliances/instruments	number	power(w)/unit	Total power (W)	KW	Operation/day	KW/Hr	No.of days in month	total Consumption per month
1	Tubes	83	20w	1660 w	1.66	6	9.96	25	249
2	Fans	63	56w	3528	3.52	6	21.1	25	529.2

				w	8		68		
3	Printers	1	75w	75w	0.075	4	0.3	25	7.5
4	UPS	2	150w	300w	0.3	12	3.6	25	90
5	Projecters	3	150w	450w	0.45	4	1.8	25	45
6	Exhauster Fans	4	70w	280w	0.28	6	1.68	25	42
7	TV	1	36w	36w	0.3	3	0.9	25	22.5
8	Table Fans	2	35w	70w	0.7	4	2.8	25	70
9	Street Lights	4	40w	160w	0.16	11	1.76	25	44
10	Flud Lights	2	150w	300w	0.3	11	3.3	25	82.5
11	Systems	3	110w	330w	0.33	7	2.31	25	57.75
TOTAL		168	892w	7189w	8.083	74	49.578	275	1239.45

principal

PRINCIPAL
GOVT. DEGREE COLLEGE
AMRABAD
(NAGARKURNOOL)