

The Berar General Education Society's Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (M.S.) (Shri R.L.T. College of Science)

Recognized by Government of Maharashtra Affiliated to Sant Gadge Baba Amravati University, Amravati Re-accredited 'A' by NAAC, Bangalore With CGPA-3.12





4th Cycle of NAAC ASSESSMENT AND ACCREDITATION

CRITERION VII INSTITUTIONAL VALUES AND BEST PRACTICES

Key Indicator – 7.1 Institutional Values and Social Responsibilities 7.1.2

<u>Facilities in the Institution and</u> <u>Initiatives</u>

7.1.2: The Institution has facilities and initiatives for-

Facilities in the Institution and Initiatives						
Sr. No	Contents	Page No.				
1	Declaration	3				
2	Alternate sources of energy and energy conservation measures	4-10				
2.1	Solar energy	4				
2.2	Biogas plant	6				
2.3	Sensor-based energy conservation	7				
2.4	Use of LED bulbs/ power efficient equipment	8				
3	Management of the various types of degradable and non- degradable waste	11-21				
3.1	Solid waste management	12				
3.2	Liquid waste management	14				
3.3	Biomedical waste management	15				
3.4	E-waste management	17				
3.5	Waste recycling system	18				
4	Water conservation	21-24				
4.1	Rain water harvesting	22				
4.2	Bore well recharge	22				
4.3	Construction of tank	23				
4.4	Waste water recycling	23				
4.5	Water distribution system in the campus	24				
5	Green campus initiatives	24-37				
5.1	A policy document on Green campus, Environment and Energy	25				

Index

5.2	Restricted entry of automobiles	29
5.3	Use of bicycles/ Battery-powered vehicles	30
5.4	Pedestrian-friendly pathways	33
5.5	Ban on use of plastic	34
5.6	Landscaping with trees and plants	36
6	Disabled-friendly, barrier free environment	38-41
6.1	Built environment with ramps for easy access to classrooms	38
6.2	Disabled-friendly washroom	40
6.3	Assistive technology and facilities for persons with disabilities (<i>Divyangjan</i>)	41
6.4	Provision for enquiry and information: Human assistance, reader, scribe	41



The Berar General Education Society's Akola SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE

Civil Lines, Akola. 444001 (Maharashtra) Affiliated to <u>Sant Gadge</u> Baba Amravati University, Amravati

Re-accredited by NAAC with "A" Grade with CGPA 3.12

AISHE CODE: C-43124 E-mail: <u>rltcollegeakola@gmail.com</u> Website: <u>www.rltsc.edu.in</u> COLLEGE CODE: 210 Principal: Dr. Vijay D. Nanoty phone: 0724-2415480, 9822724504

Ref. No: RLT/IQAC/C-VII /7.1.2

Date: 23/10/2022

DECLARATION

This is to declare that, the information, data, true copies of the supporting documents etc. furnished in this file of **7.1.2: Facilities in the Institution and Initiatives** is checked and verified by IQAC, Shri R. L. T. College of Science, Akola and found to be correct.



IQAC Coordinator

Principa

Shri R.L.T.College of Science Civil Lines, Akola (M.S.)

Principal

7.1.2 The institution has facilities and initiatives for

1. <u>Alternate sources of energy and energy conservation measures:</u>

Shri R.L.T. College of Science, Akola has following facilities and initiatives for Alternate sources of energy conservation measures:

- i. Solar energy
- ii. Biogas plant
- iii. Sensor-based energy conservation-
- iv. Use of LED bulbs/ power efficient equipment



Shri R. L. T. College of Science, Akola

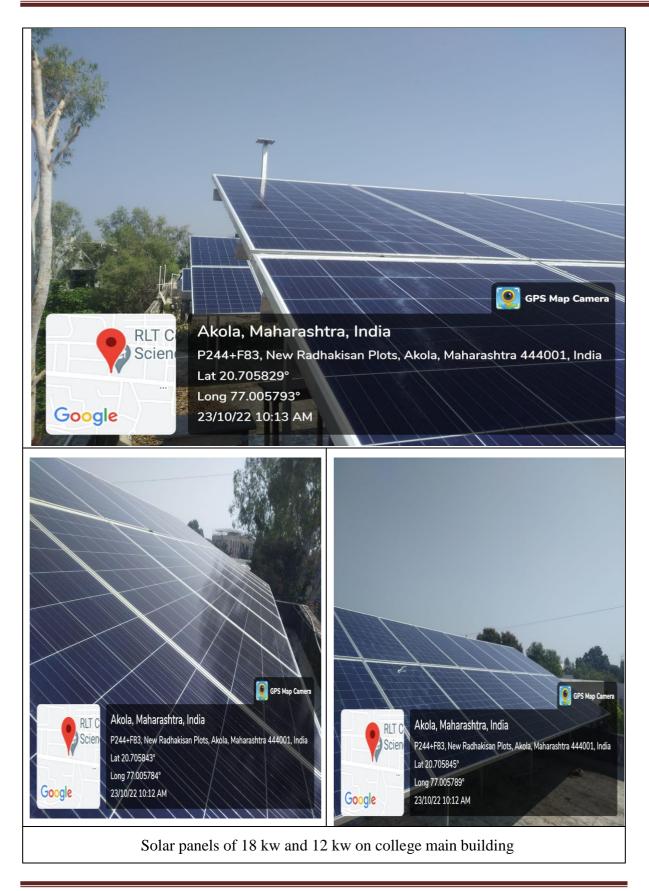
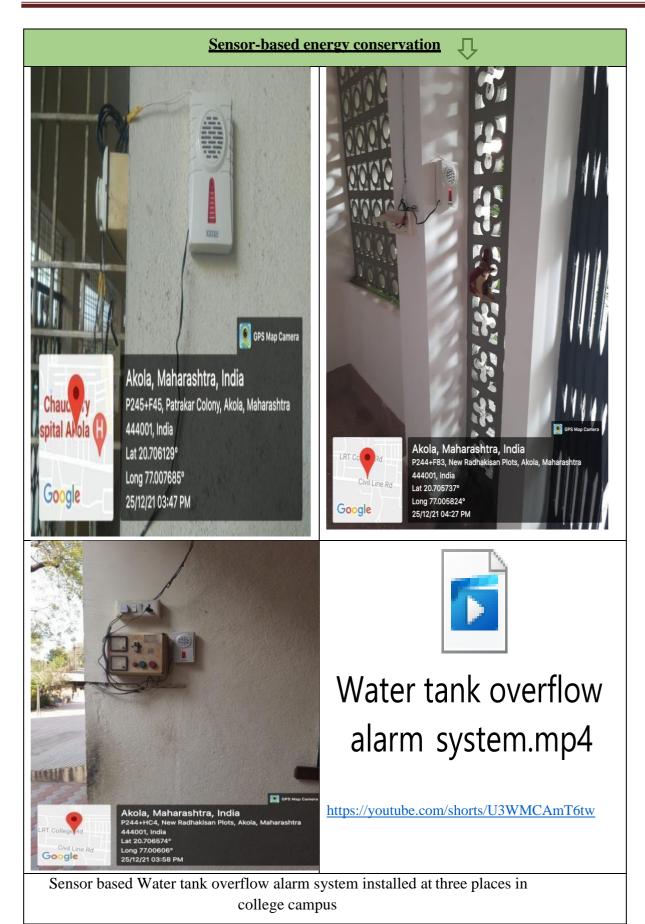
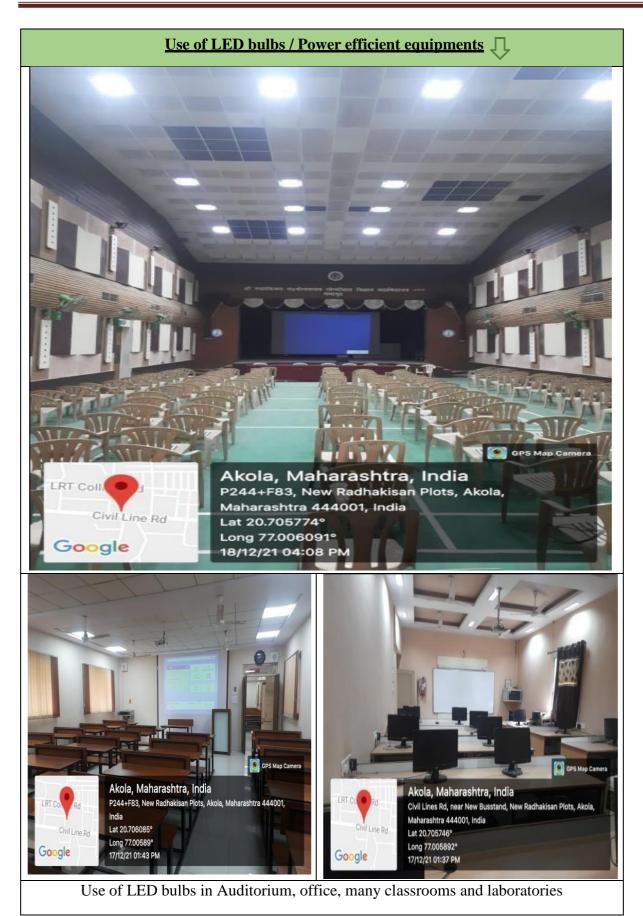


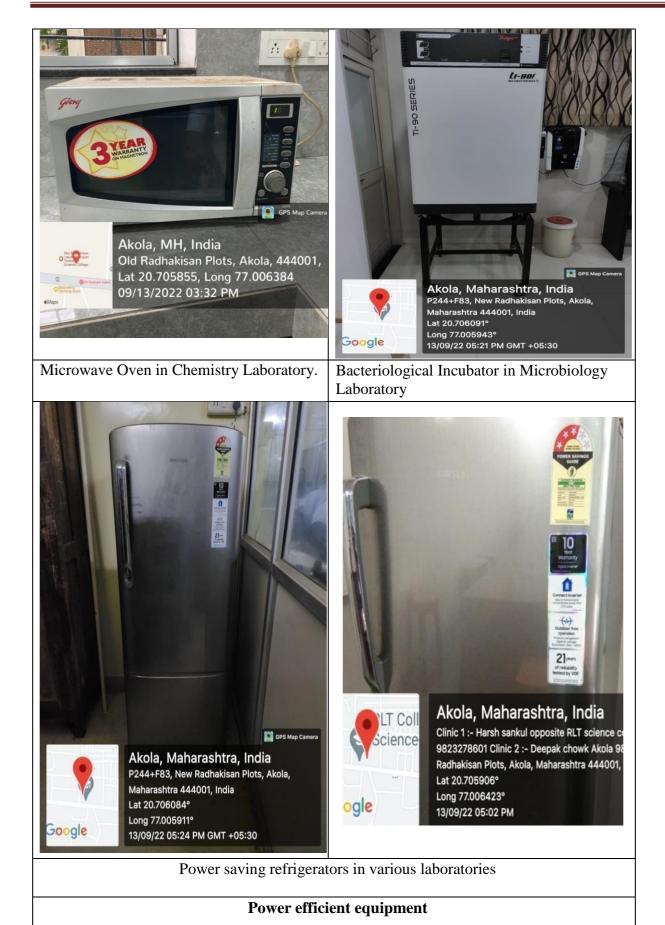


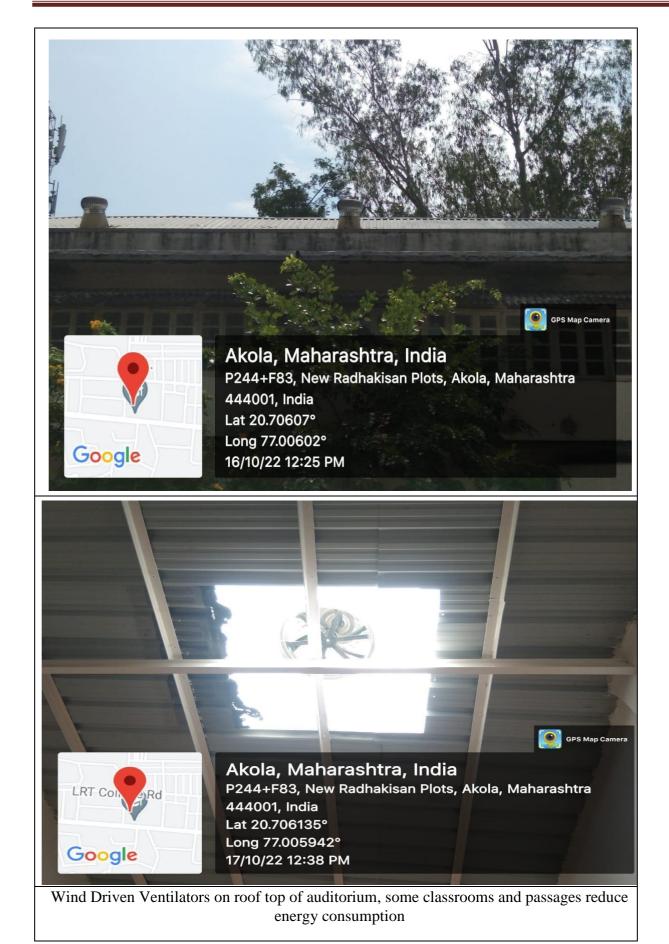
Chart of Biogas plant which works on Food waste generated from kitchen was installed under technical guidance of our student Mr. Sandeep Toshniwal.





Shri R. L. T. College of Science, Akola





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

Solid waste management

Vermicomposting: Various organic wastes mainly Garden waste are used as substrates for the preparation of Vermicompost in college premises.

Biogas: Biogas plant at the Girls hostel is a best technology for the treatment of kitchen and dining waste.

Sufficient number of Dustbins are kept in every class room and in all the campus for deposition of waste material. Every day after college hours, this garbage is collected in garbage bins. Akola Municipal Corporation's 'Garbage pickup agency' collects the waste material from garbage bins daily

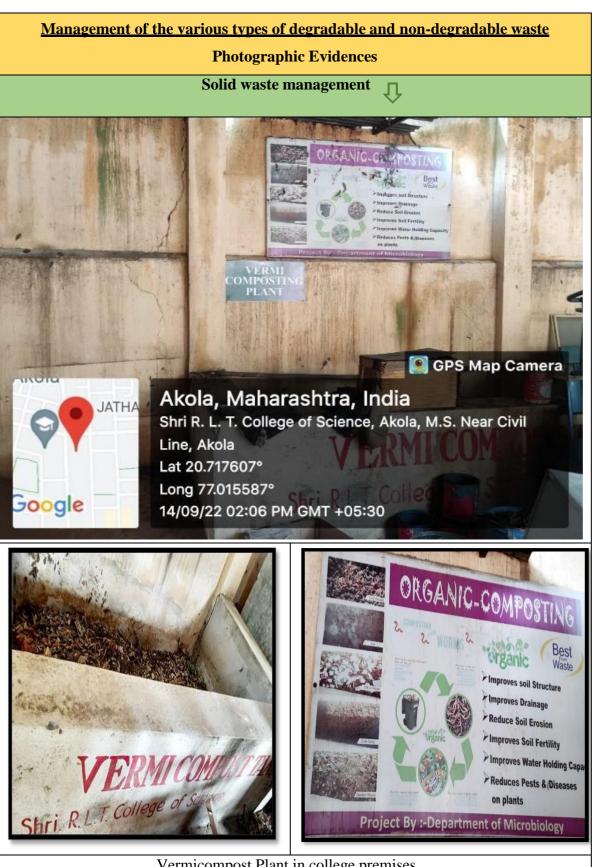
• Liquid waste management: Waste water of chemistry lab is carried through underground drainage and soak pit.

• **Biomedical waste management:** Solid and dry waste material from Microbiology laboratory is packed into biohazards bag after disinfection and handed over to waste collection vehicle of Akola Municipal Corporation. Used media are properly autoclaved before disposal.

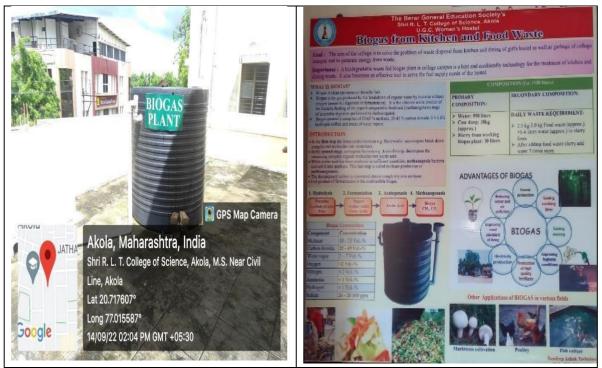
• **E-waste management:** Physics department constructed fabricated experimental Kits using E Waste. Minor repairs of gadgets are done by concerning laboratories staff. Physics department constructed fabricated experimental Kits using E Waste. Repairing computers and printers by laboratory attendant in Computer Department is a regular practice. in department of Electronics IC 7447 circuit boards are designed using E Wastes.

• Waste recycling system: Notice boards, parking stands, poster stands, etc. are made from broken furniture. Waste water from laboratories is treated with 1% sodium hypochlorite and then used for garden. Solvents are reused for washing glassware. Oil cans are reused for making bird's nests.

• Hazardous chemicals and radioactive waste management: Laboratories hazardous chemicals waste used to segregate separately from incompatible chemicals waste. Oxidizers used to be isolated from oxidizable materials and dehydrating agents.



Vermicompost Plant in college premises



Biogas plant at the Girls hostel is a best technology for the treatment of kitchen and dining waste.



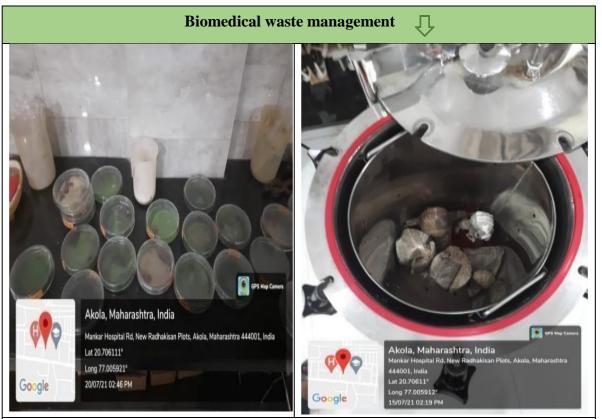


Akola Municipal Corporation's 'Garbage pickup agency' collects the waste material from garbage bins daily

Liquid waste management 🖓



Waste water to soak pit through underground drainage from Chemistry Laboratory



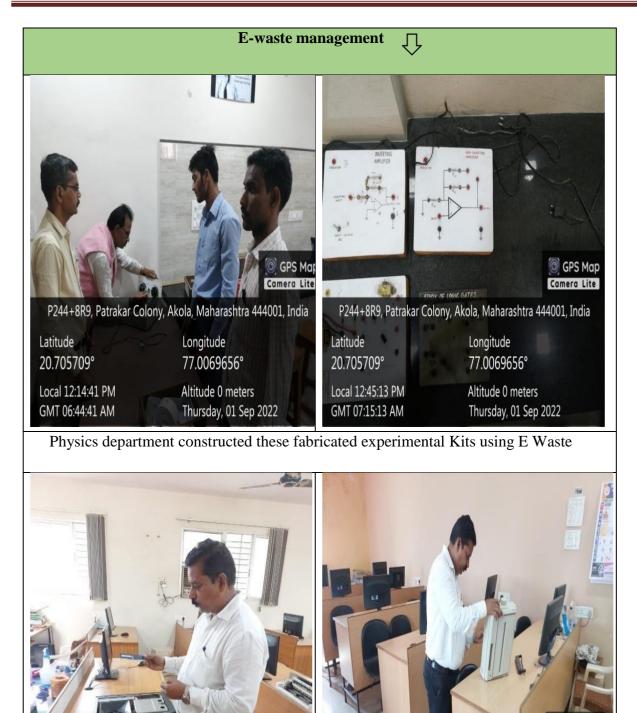
In Microbiology laboratory used media are properly autoclaved before disposal



Solid and dry waste material from Microbiology laboratory is packed into biohazards bag after disinfection.



Biomedical waste is handed over to waste collection vehicle of Akola Municipal Corporation.



Repairing computers and printers by laboratory attendant in Computer Department

Google

Akola, Maharashtra, India

Maharashtra 444001, India

Lat 20.705942°

Long 77.005732°

03/09/22 03:51 PM

P244+F83, New Radhakisan Plots, Akola

Shri R. L. T. College of Science, Akola

RLT C

Scien

Google

GPS Map Camera

Akola, Maharashtra, India

444001, India

Lat 20.706061°

Long 77.005745°

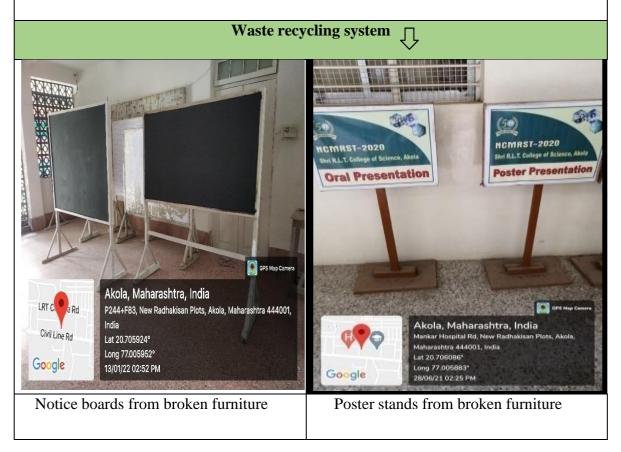
03/09/22 03:47 PM

Scien

P244+F83, New Radhakisan Plots, Akola, Maharashtra



Designing IC 7447 circuit board in department of Electronics





Parking stands from broken furniture





'Blank Paper Bank' Activity of Chemistry department Unused or blank pages of old practical books are collected in Blank paper bank and bind them to prepare note books

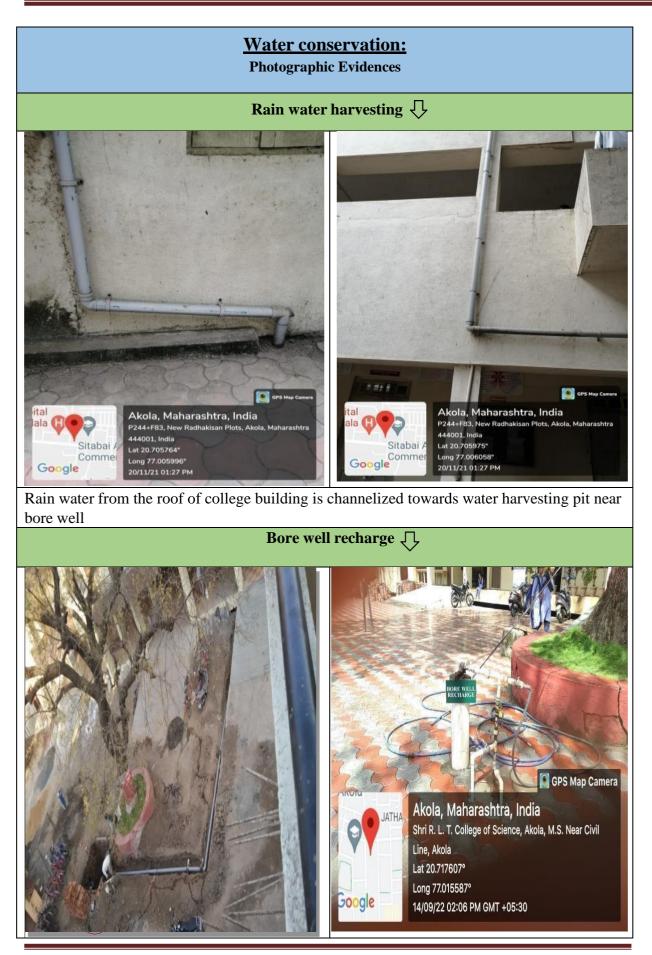


Note books prepared from such pages are donated to needy children of village school and made them useful again.

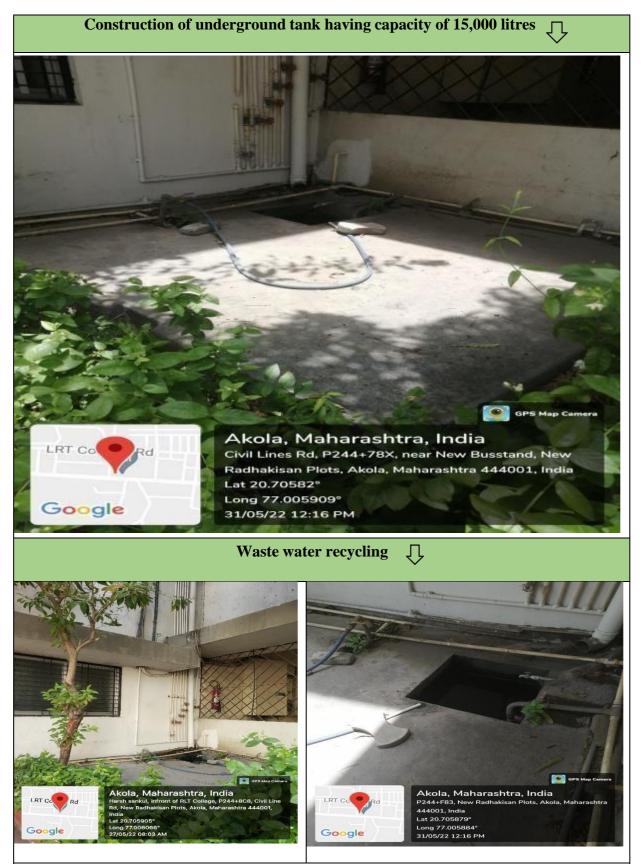
3. <u>Water conservation:</u>

Shri R.L.T. College of Science, Akola has following facilities for Water conservation:

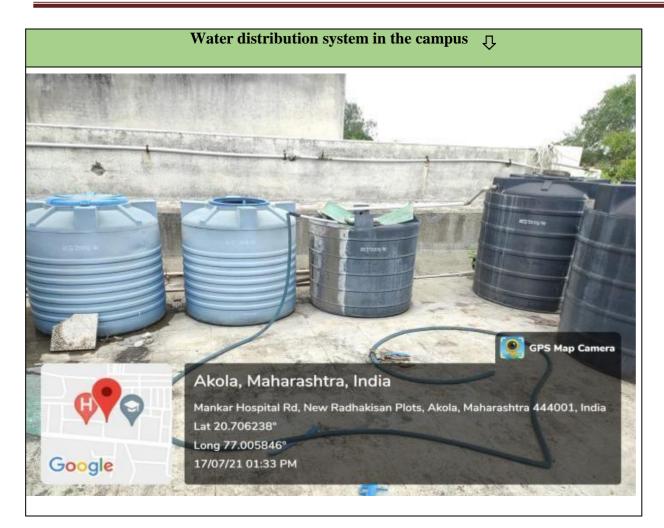
- 1. Rain water harvesting
- 2. Bore well /Open well recharge
- **3.** Construction of tank
- 4. Waste water recycling
- 5. Water distribution system in the campus



Shri R. L. T. College of Science, Akola



Rainwater from the building slab is collected in an underground tank and used for trees and college garden



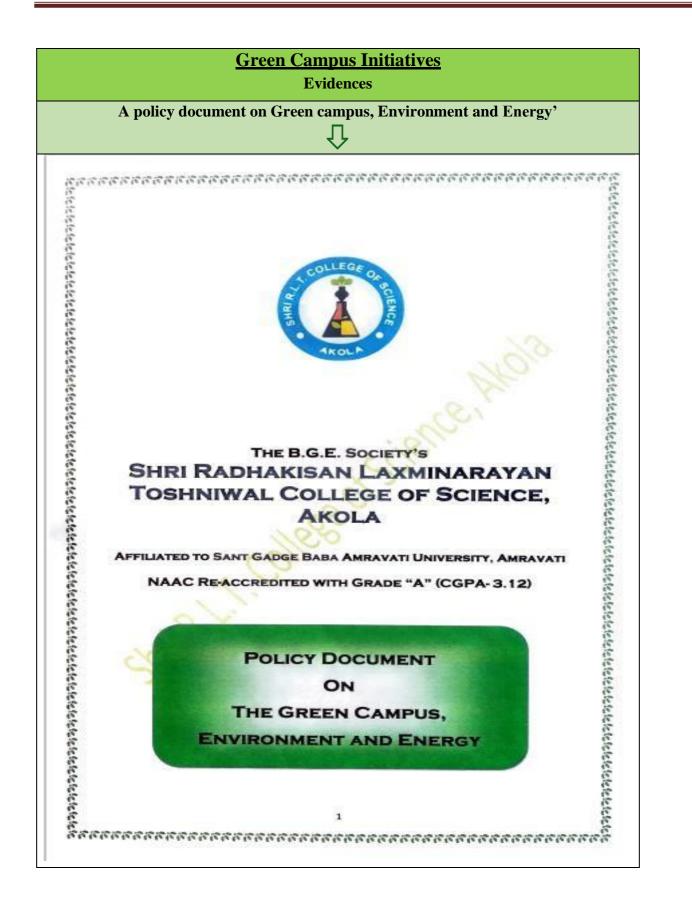
4. Green campus initiatives

> College published 'A policy document on Green campus, Environment and Energy'.

Web-link: <u>https://www.rltsc.edu.in/wp-content/uploads/2022/02/Policy-document-on-Green-campus-Environment-and-Energy.pdf</u>

Initiatives for greening the campus of Shri R.L.T. College of Science, Akola are as follows:

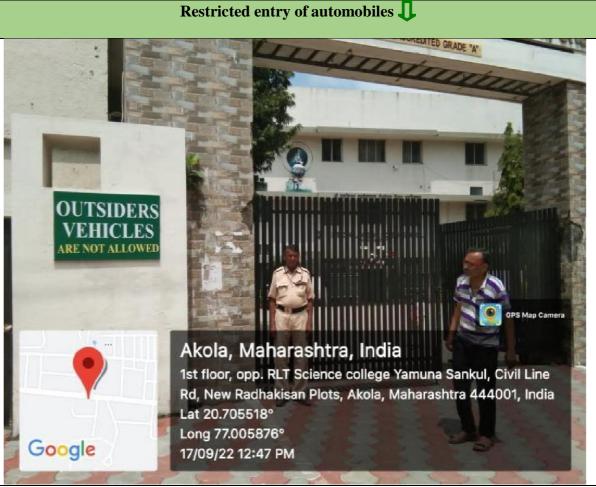
- **1.** Restricted entry of automobiles
- 2. Use of bicycles/ Battery-powered vehicles
- 3. Pedestrian-friendly pathways
- 4. Ban on use of plastic
- **5.** Landscaping with trees and plants



<text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header>

G	reen Initiatives:
Fo	llowing green initiatives are taken by Management, Administration, Environment Cell,
	S unit, NCC unit and all departments of college:
	Initiatives for greening the campus:
5.))	1. Healthy practice of use of bicycles
	2. Pedestrian Friendly pathways
	3. Ban on use of Plastic
	4. Landscaping with trees and plants
×	Facilities for alternate sources of energy and energy conservation measures:
	1. Solar energy: Solar based LED lights in campus, solar water heater in girl's hostel
	2. Biogas plant: Biogas plant in girl's hostel
	3. Sensor-based energy conservation: Water tank overflow alarm system installed at three
	places in college campus
	4. Use of LED bulbs: Use of LED bulbs in Auditorium, office, many classrooms and
	laboratories.
	5. Power management features are activated on every computer and monitor.
	6. Promotion of 'Save Energy Tips': Stickers displaying the message of protecting
	environment, saving electricity, papers and energy are posted on key places in college premises.
5	Management of degradable and non-degradable waste:
50%	1. Solid waste management: Biogas plant at the Girls hostel is a best technology for the
	treatment of kitchen and dining waste. Vermicomposting is done mainly by use of
	garden waste as substrates.
	2. Liquid waste management: Waste water of laboratories is carried through
	underground drainage. In chemistry laboratories hazardous chemicals waste used to
	segregate separately from incompatible chemicals waste. Oxidizers used to be isolated
	from oxidizable materials and dehydrating agents.
	3. Biomedical waste management: Solid and dry waste material from Microbiology
	laboratory is packed into biohazards bag after disinfection and handed over to waste
	collection vehicle of Akola Municipal Corporation. Used media are properly autoclaved before disposal.
	4. E-waste management: Minor repair of gadgets are done by concerning laboratories
1	staff. E- waste is sold as scrap to local garbage dealer in order to ensure their safe
	recycling.
	5. Waste recycling system: Notice boards, parking stands, poster stands, etc are made
	from broken furniture. Waste water from laboratories is treated with 1% sodium
	hypochlorite and then used for garden. Solvents are reused for washing glassware. Oil
	cans are reused for making bird's nests.
×	Water conservation facilities available in the Institution:
	1. Rain water harvesting
	2. Bore well recharge system
	3. Waste water recycling
	4. Water tank overflow alarm system & Proper water distribution system in the campus
	3

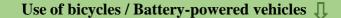




Outsider's vehicles are allowed only after checking by guard



Barricades to restrict vehicles entry



Discipline & Code of Conduct

- A. Students must not loiter in the college compound or in the corridors. They should spend their leisure time in the library.
- B. While ascending or descending the stairs, students should avoid overcrowding and shouting. They must keep to their left on the stairs.
- C. Students are strictly forbidden to enter the office, Professors common room and Principal's office without permission.
- D. Noisy behavior by any student in the college premises, lecture hall or near the office is strictly prohibited.
- E. Students shall be in their seats in the classroom before start of the lecture. No student should enter or leave the class without permission,
- F. Student not attending the theory classes of a particular subject will not be allowed to attend the practical of the subject.
- G. Students must take proper care of the college properties such as furniture and electrical fixtures etc.
- H. Students must not bring with them unauthorized person in the college premises Strict disciplinary action will be taken against the students who violate this rule.
- I. Students shall not organize their own picnics, excursions or any programs without prior written permission of the Principal.
- J. Students are appealed to use bicycles or e-vehicles to encourage healthy, sustainable and eco-friendly mode of transport to the college

Page 7

Healthy practice of use of bicycles is mentioned in college prospectus under 'Discipline and code of conduct'

	Session 2022-2	23	SHRI R.L.T. COLLEGE OF SCIENCE AKOLA		
		1	NATIO	NAL SERVICE SCHEME	6
	- NOTICENO	D. 17 -	POLLUTION SOLUTION		SHRIR
All students, Teach	ing staff, Administrative	staff, Non teaching staff, C.H.B., Daily	JULUTIUN	No Vehicle Day	
Wages Staff & Contract based teaching staff.				On	
		which always of as		1 st October 2022	65
All are hereby info	ormed that the first day	of every month will be observed as			Ĕ
"NO VEHICLE DAY", "BI	CYCLE DAY" in the colle	ege campus. So everyone should take		Note: All the Staff Members	NA
a note of this.		Wandy		and Students are requested	9
		(Dr. V.D. Nanoty)		to come by bicycle and help	
		Principal Shri R.L.T. College of Science,		to keep our campus and	
		Akola		environment pollution free.	
Akola Date : 30/8/2022					
1. Chemistry	2. Phy	3. Ele	Dr. Rashmi P. Joshi & Dr. Samadhan Munde NSS Programe Officers	e Dr. R. L. Rahatgaonkar IOAC Coordinator	Dr. V.D. Prin
4. Maths	5. Botany	6. Zoo	N33 Fridgrame Unicels		
7. Micro/Biochem	8. Coms. Sci.	9. Language			
10. DPE/Sports	11. Library	12. Notice Board			
13. Office	14. IT	15. Bioinformatics			

Shri R. L. T. College of Science, Akola



Words of appreciation by honorable Principal sir for using bicycles on first day of month





Use of e-bikes by Staff members and Students



Shri R. L. T. College of Science, Akola



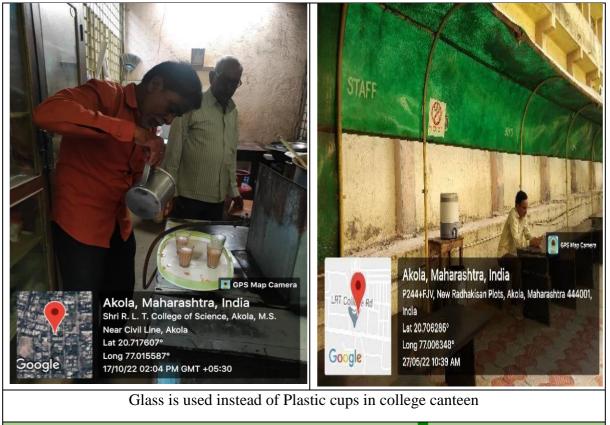
Program on single use plastic ban (2 Oct. 2019)



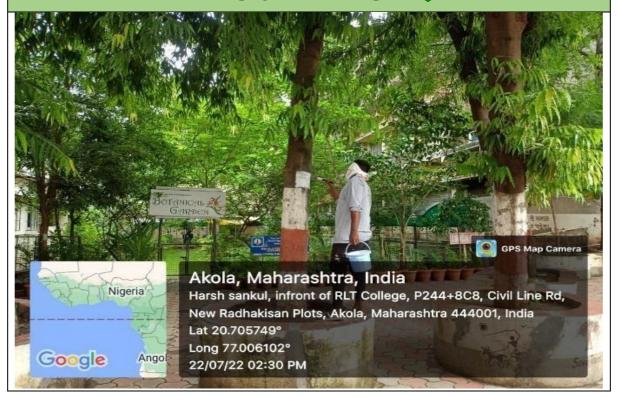
Use of cotton bags instead of plastic carry bags; An initiative by Botany Dept.

Awareness was created by putting up 'Say no to Plastic' placards in the college premises





Landscaping with trees and plants \mathbf{J}





Botanical garden



5. Disabled-friendly, barrier free environment:

Shri R.L.T. College of Science, Akola has Disabled-friendly, barrier free environment:

1. Built environment with ramps/lifts for easy access to classrooms.

- i. Rails towards Library and Examination Section.
- ii. Rails towards various departments for easy access to classrooms and laboratories.
- iii. Ramps and Handrail in Girl's Hostel

2. Disabled-friendly washroom

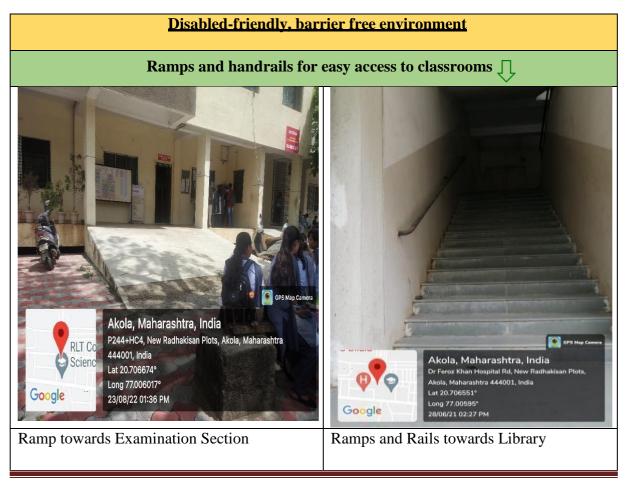
- i. Ladies: 01
- ii. Gents: 01
- **3.** Assistive technology and facilities for persons with disabilities (*Divyangjan*):

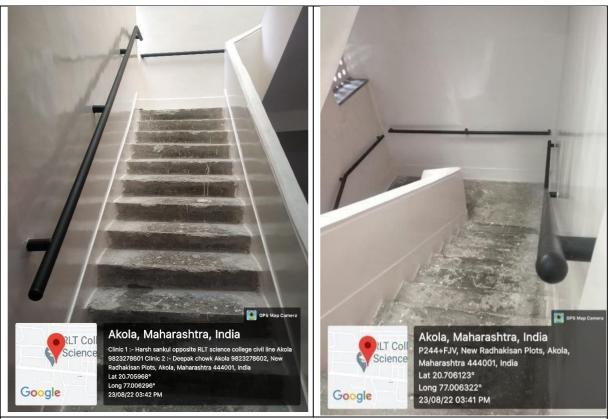
mechanized equipment: (College has 2-wheel chairs and 1 walker)

4. Provision for enquiry and information: Human assistance,

reader, scribe etc.

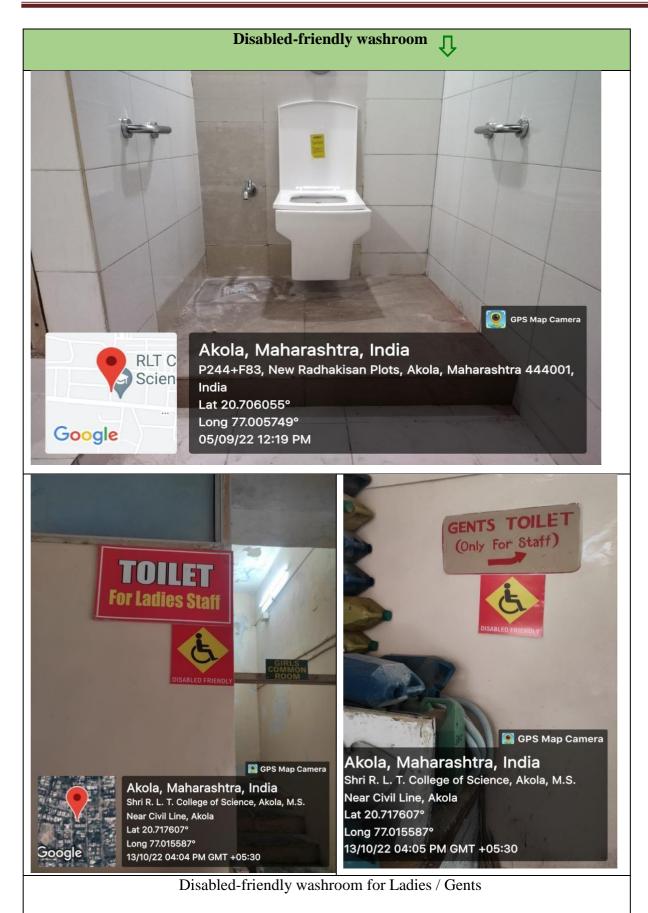
- i. College provides scribe for Exam.
- ii. College provides extra time to disabled during Examination.





Handrails towards various departments for easy access to classrooms and laboratories.





Shri R. L. T. College of Science, Akola

