

# Internal Green Audit Program

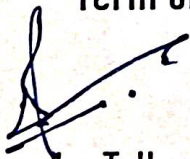
This is to certify that the Internal Green Audit Report of  
*B. G. E. Society's*

## Shri R.L.T. College of Science

New Radhakisan Plots, Akola

is based on the data collected during the physical visits to the college. Further, it is certified that the core information related to green initiatives and activities was collected and scrutinized by Internal Green Audit Committee. The college has successfully established eco-friendly practices and management systems at all levels. The evidence is substantial. We appreciate the efforts taken by teaching, nonteaching staff, and students towards keeping the campus green.

Term of validity: April 1<sup>st</sup>, 2017 - March 31<sup>st</sup>, 2018



**Devendra Telkar**

Internal Green Audit Committee Member  
Srushti Vaibhav  
Nature Conservation Society  
Devdatta Apartment, Gaddam Plots, Akola



**Uday Vaze**

Internal Green Audit Committee Member  
Environmental Management Consultant  
Environment & Forest Education Center  
Environmental Consultant, Ramdas Peth, Akola





# Internal Environment Audit Program

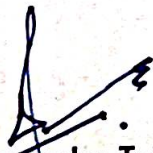
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New Radhakisan Plots, Akola

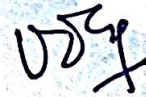
is based on the data collected during the physical visits to the college. Further, it is certified that the core information related to environment protection & monitoring activities were collected and scrutinized by Internal Environment Audit Committee. The college has successfully established environmental practices and management systems at all levels. The evidence is substantial.

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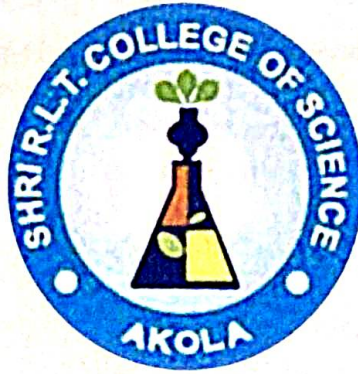
Internal Green Audit Committee Member  
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Ramdas Peth, Akola, 444001







B. G. E. Society's



## Shri R.L.T. College of Science

New Radhakisan Plots, Akola

Maharashtra 444001, India

2017 - 2018

### INTERNAL GREEN & ENVIRONMENT AUDIT REPORT



Prepared by:

**Internal Green & Environment Audit Committee**

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





## Acknowledgement

Internal Green and Environment Audit Committee would like to thank the management of the B.G.E. Society, teaching & non-teaching staff, students, parents, and adjoining community for extending their co-operation and valuable inputs in gathering data. This is a significant step taken by the college and their efforts towards their contribution in conservation of resources, worth mentioning here.

Internal Green and Environment Audit Committee also wish to thank EFEC for helping Internal Green and Environment Audit Committee in organizing 'Workshop on understanding Environment Management System' and appreciate their cooperation in extending their knowledge throughout the process of Internal Green and Environment Audit program.

Internal Green & Environment Audit Committee expresses gratitude towards the selfless contribution made by various NGOs and individuals in contributing their knowledge and expertise in compiling technical data required in the preparation of the audit.

Our special thanks are due to the Principal Dr. V. D. Nanoty of Shri R.L.T. College of Science, Akola for giving us valuable guidance.

## About Shri R.L.T. College of Science

Shri R.L.T. College of Science, Akola affiliated to Sant Gadge Baba Amravati University, Amravati was established under The Berar General Education Society, Akola on 1<sup>st</sup> April 1970 and celebrating its Golden Jubilee year. The college is re-accredited by NAAC with an 'A' Grade, CGPA-3.12 (Third Cycle). The college offers B.Sc. , M. Sc., Ph. D. and career-oriented programs like CCLT, DCLT, and ADCLT. It also comprises 11<sup>th</sup> and 12<sup>th</sup> standard education. At present, there are 14 departments in college i.e. Biochemistry, Bioinformatic, Botany, Chemistry, Computer Science, Electronics, Information Technology, Mathematics, Microbiology, Physics, Zoology, Languages, Physical Education and Library. The college is one of the premier institutions delivering excellent education through dedicated collaborated efforts towards achieving recognition and honor at the national and international levels.

Google map satellite photo of Shri R. L. T. College of Science, Akola

Latitude : 20°42'21.47"N - Longitude : 77° 0'21.85"E







B. G. E. Society's

## Shri R.L.T. College of Science

New Radhakisan Plots, Akola, Maharashtra 444001

### IGEAC : Internal Green and Environment Audit Committee

Sr. No.	Name	Designation	Sign
01	Dr. V. D. Nanoty	Principal/Chairman	
02	Dr. R. J. Rahatgaonkar	IQAC, Co-ordinator	
03	Dr. Archana Sawarkar	Co-ordinator, IGEAC	
04	Mr. Devendra Telkar	External Member, IGEAC	
05	Mr. Uday Vaze	NGO, Srushti Vaibhav	
06	Mr. Uday Vaze	External Member, IGEAC	
06	Dr. S. M. Nagrale	EFEC HOD, Member, IGEAC	
07	Mrs. V. N. Badgajar	HOD, Member IGEAC	
08	Dr. P. T. Agrawal	HOD, Member, IGEAC	
09	Dr. P. M. Khadse	Member, IGAEC	
10	Dr. S. R. Kohchale	Member, IGEAC	
11	Dr. K. M. Heda	Member, IGEAC	
12	Dr. R. P. Joshi	Member, IGEAC	
13	Prof. S. V. Madavi	Member, IGEAC	
14	Prof. S. N. Gawande	Member, IGEAC	
15	Mr. Deepak Wankhade	Member, IGEAC Non-Teaching Staff Representative	
16	Mr. S. B. Shelke	Member, IGEAC, Gardner	

**The Internal Green & Environment Audit Committee authenticate observations and recommendations in this report.**

#### Internal Green & Environment Audit Key Steps

Pre Audit Training Workshop : April 2017

Questionnaire Data Collection started : September 2017

Draft report completed : April 2018

Review Meeting : May 2018

Final report completed : June 2018







## Synthesis Document

Internal Green & Environment Audit is assigned to the Criteria 7 of NAAC, National Assessment, and Accreditation Council. The Internal Green & Environment Audit Committee was formed. The committee planned for conducting an Internal Green and Environmental Audit of the college in July 2017. The intention to carry an Internal Green & Environment Audit was to make sure that the practices, processes, and activities followed in the campus are eco-friendly. The questionnaire was obtained by an external member of the Internal Green & Environment Audit Committee. It was observed and evidence was brought together 'what degree to which the Departments comply with the applicable regulations, policies, and standards to ensure that the development of the college aims at sustainable development and keeping the college campus green. The methodology used included was right from collecting data through questionnaire, insight inspection, evaluation, computation, conducting physical survey and review of the relevant documentation.

## Statement of Assertion

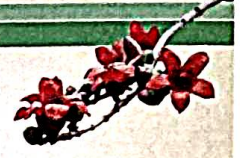
The Internal Green & Environment Audit Committee has adopted the audit procedure that meets the terms of International Standards of Internal Auditing Practices. The committee is causing to feel certain that adequate and relevant audit procedures were followed, concrete evidence was gathered and conclusions were drawn from facts. The Internal Green and Environment Audit committee believes that recommendations are for improving the effectiveness of environmental management efforts made by Shri R.L.T. College of Science. Changes or additions in management practices should be systemic, must be done through series of small steps and every concerned individual must be well informed about changes and additions made in management practices. Recommendations are based on evidence compiled in this report as they existed at the time of the audit in 2017-18.

## Compendium

It was truly evident from the data collected at Shri R. L. T. College of Science that teaching & non-teaching staff, students, vendors, and service providers of the college are aware of the importance of efforts to save and protect the environment in the campus in every day's work. The college staff follows the best course of action such as reducing all types of waste, time to time garden maintenance, follow composting practices, ways and means to reduce energy consumption, conduct review meetings, organize environmental educational activities for staff as well as for students. Although, it was also observed that, many of the practices followed in the college are still incipient and needs further action to improvise course of actions.







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## Introduction

The expeditious urbanization and economic development at the local, national and international levels have led to several environmental and ecological emergencies. To prevent damages due to site-specific activities, practices, processes, and procedures followed by various institutions, businesses, organizations, or factories, it becomes essential to adopt methods, processes, and procedures for making green campuses for the institutions, businesses, organizations, or factories which will lead for sustainable development. Every organization has systems to manage finance, health, and safety, it is equally important that every organization must have an Environmental Management Performance Checking System for managing environmental issues.

Shri R.L.T. College of Science is very much aware of its responsibility towards keeping campus green and strives hard to make it pollution-free. The college strives hard to maintain an eco-friendly ambiance and achieve continual improvement in environmental performance. The main intention of conducting the Internal Green and Environmental auditing is understood and continuous efforts are made in achieving objectives mentioned in the Environment Policy of the college. The college invites consultants and subject specialists in environment conservation to modify its working on every six months interval. The methodology to conduct Internal Green Audit & Environmental Audit was designed with the help of consultants and NGOs with the teaching staff of the college. It includes a draft of the questionnaire, in-situ site inspection of the campus, scrutinize documentation, monitors procedures, practices, and processes carefully. The formation of an internal audit committee with the involvement of an external subject specialist has made significant recordings. The internal audit committee has made short time and long term recommendations. The committee proposed remedial procedures to reduce the carbon footprint of the college. It works for the betterment of eco-friendly campuses including air, water, noise, soil quality, waste management, care for flora & fauna on campus, the importance of paperless working, plans for adopting alternative energy creation by adopting solar-powered energy sources.

## Internal Green Audit

An Internal Green Audit is a process of systematic identification, evaluation, documentation, reporting, and analysis of components of environmental diversity of various institutions, businesses, organizations, or factories. It aims to analyze environmental practices and processes within and outside of the targeted institution, business, organization, or factory, which will have an impact on the ecologically friendly environmentally safe ambiance.

## Internal Environment Audit

An Internal Environmental Audit is an assessment performed to ensure that institutions, businesses, organizations, or factories are complying with environmental policies. It examines the amount of harm or risk of injury that may be posed by the assessed entity and determines the types of pollution being produced by looking at a broad range of site-specific activities, practices, processes, and procedures. The information compiled from these factors determines what remedial procedures are required to be added for the better good.

## Scope

Internal Green Audit & Environmental Audit play a significant role in the continuous operation of institutions, businesses, organizations, or factories. It keeps institutions, accountable by scrutinizing their site-specific activities and determining what remedial measures are required to be added or put in place to ensure institutions, businesses, organizations, or factories are following the proper statute.

## Objective

The key objectives of an Internal Green and Environmental Audit, therefore, are to: determine how well the environmental management systems and equipment are performing, verify compliance with the relevant national, local, or other laws and regulations, minimize human exposure to risks from environmental, health and safety problems.







## Methodology

In the first meeting of Internal Green & Environment Audit Committee, it was unanimously decided that an external party will look into the overall infrastructure, procedures, practices, and operation of the collage and will draft a detailed Questionnaire. Questionnaires provide a relatively rapid and efficient way of obtaining large amounts of information from a large number of people. Questionnaire are easy to respond to. Specifically, answers obtained through closed-ended questions with multiple choice answer options are easy to obtain and less time-consuming. Answers obtained to the open-ended questionnaire are analyzed using qualitative methods and they involve discussions and critical analyses without any difficulty. It is useful because the information can lead to concrete conclusions. The methodology also included a physical inspection of the campus, observation, and review of the documentation, interviewing key persons and data analysis, measurements, and suggesting recommendations.

The efforts were taken to understand the following focus areas and emphasis was given to know facts on the ground :

What measures are taken by the college to maintain greenery and the efforts taken for keeping environment protection policy as priority as declared by the college in its Environment Policy?

What efforts have been put in by the college to offer clean water to students and staff of the college?

What efforts are made by college to maintain and control Rain Water Harvesting, Waste Water Management effectively?

What efforts are made by the college to conserve energy such as electrical use?

How does the college monitor and control all types of waste?

How extra efforts are taken to control vehicular pollution caused by automobiles passing by adjacent roads along the college campus?

To monitor and evaluate how collage benefits to the community in and around the college campus.

To scrutinize the data provided by the college in regard to efforts and initiatives taken by the NSS and Environment Cell.

To make physical verification of positive impact made by initiative by the college such efficacy of Bio-gas plant, solar plant, and floral species on the campus.

To study and evaluate various green initiatives and activities are organized by the college.

To interview stakeholders of the college about plans for environment protection practices, processes, and procedures.

To review recommendations made earlier year and act upon it.







## Environment Policy

Shri R.L.T. College of Science not only target to impart quality education but also understand responsibility towards the protection of the environment for the future generation. The college wishes to create environmentally safe practices to ensure that the college campus is kept green by reducing its carbon foot-print. The college will monitor its operation and make it economically successful & sustainable along with being socially responsible.

Environment Policy will compel every one of the college to follow practices, processes, and operations supported by identified groups and individuals. Environment Policy has the potential to develop exciting new co-curricular and extracurricular practices that encourage students to take part voluntarily that benefits them in any way.

Environment Policy also targets to enroll external parties such as vendors and suppliers in achieving the environment conservation objective in their relevant fields too.

### Aims and Objectives of Environment Policy

#### Managing environment

- To promote stringent environmental management systems, processes, and operations.
- To reduce sources of pollution at every extent of its operation and to adopt the PDCA model to it.
- To find ways to improve its environmental performance.
- To ensure that students get updated knowledge about environment conservation practices.
- To involve the community in and around the collage to achieve its clean environment objective.

#### Efficient use of energy

- To achieve success in efficient use of energy to reduce its carbon footprint.
- To combat pollution caused by vehicular pollution by maintaining greenery on campus.
- To install energy efficient gadgets by introducing solar technology in the creation of clean energy.

#### Sensible use of water

- To make everyone aware of importance of the water.
- To find out new ways for reducing water footprint.
- To appeal and enroll all vendors and suppliers to supply eco-friendly products and services to promote sustainable resource management practices.

#### Efforts to waste reduction

- To identify sources of waste generation and reduce them.
- To segregate the waste and ensure its safe disposal with the help of Akola Municipal Corporation and with authorized E-waste disposal agencies in & around the Akola district.

#### Ethical practice

- To promote activities that protect bio-diversity on the campus.
- To plan and act on continuous improvement in line with environmental protection.
- To enhance the profile of the college by elevating the best academic and environmental practices.

#### Extension education activities

- To make special efforts about organizing workshops and activities in line with environmental education.
- To make aware the staff and students of the college about environmental impact & it's performance.







## Location of the college

Shri R.L.T. College of Science at Akola in Maharashtra, India is a prominent science college of the Vidarbha region as well as in India. It is in center of the Akola city. It is well connected by road and railway network, enabling students from adjoining district to reach the college with ease.

Latitude : 20°42'21.47"N

Longitude : 77° 0'21.85"E

## Internal Green and Environment Audit Training

Shri R. L. T. College of Akola has a well-defined decentralized and participatory organizational structure to coordinate and promote academic and administrative functions. The organizational structure has different units of statutory bodies. The principal of the college always strives hard to promote environmental conservation in every possible way. The college has organized Pre Internal Green & Environment Audit Orientation Program and taken special efforts in enrolling teaching, non-teaching staff, students, and community representatives to attend the meeting. Environmentalists & subject specialists presented various topics such as protecting the environment by preventing wrong practices, enhancing environmental performance, introducing new ways to reduce pollution.

## Audit Questionnaire & Audit Forms

Internal Green and Environment Audit Committee were given a host of audit forms and questionnaires. The committee was well supported by the teaching and non-teaching staff of the college to collect the data. The evidence were collected by referring Questionnaire and by making field visits to the college.

## Biodiversity on campus: Flora & Fauna

The college has been planting and conserving trees, climbers, creepers, herbs, and shrubs since its inception in 1970. A wide variety of floral species can be seen thriving on the campus. The college has taken a painstaking effort in maintaining green cover. A botanical garden nurture host of the wide variety of medicinal species for educational purpose. The green cover in the campus helps in creating favorable conditions for many living organisms such as butterflies, insects, ladybird beetles, spiders, birds, and squirrels.

## Green initiatives

Shri R. L. T. College of Science is a premier institute in Vidarbha and is aware of importance of educating students about environment and special efforts are taken by Environment Cell and NSS unit in initiating activities that reduces its adverse impacts on environment. Initiative such as Tree Plantations, No Vehicle Day, Save Energy, Burn Ban, Reducing Paper Usage, Bio-gas Plant, Rain Water Harvesting, Plastic Waste Free Campus, Regular Maintenance Of Electrical Gadget, Installing Energy Efficient Electrical Fixtures, Awareness Training Workshops, Waste Disposal, Solid Waste Management, Organic Waste Management, are organized by the college. (Annex-D) Internal Green & Environment Committee has recommended few remedial measures.

## Internal Green & Environment Audit Document Storage

All the documents related to Internal Green and Environment Audit are stored at IQAC chamber in the cupboard. And it can be viewed by any member of the committee or by any stakeholder with a prior appointment with IQAC co-ordinator.







## Bio-diversity in campus : Flora

### List of plants at various places in the campus

English Name		Botanical Name	Type	Place	Total Plants
False Ashoka	अशोक	<i>Polyalthia longifolia</i>	Tree	Admin bldg, Adm, Ch Lab, Ph Lab	11
Yellow trumpet flower		<i>Ticoma stans</i>	Tree	Admin Bldg, Aud Ph Lab,	6
Cactus	केतकी	<i>Opuntia ficus-indica</i>	Cactus	Admin Building	1
Korean Arbor	थुजा	<i>Thuja koraiensis</i>	Tree	Admin Bldg, BG	6
Cycad	सायकस	<i>Cycas revoluta</i>	Cycad	Admin Bldg, BG	2
Bougainvillea	बोगनवेल	<i>Bougainvillea spectabilis</i>	Shrub	Auditorium, BG	4
Neem Tree	कडुलिंब	<i>Azadirachta indica</i>	Tree	Lib, Ladies Hostel	4
Croton	क्रोटॉन	<i>Codiaeum variegatum</i>	Herb	Lib, Ch Lab, Ph Lab, BG	40
Jasmin	मोगरा	<i>Jasminum officinale</i>	Herb	Lib	1
Jasmin sp	जुई	<i>Jasminum auriculatum</i>	Vine	Lib	1
Indian Fig	औदुंबंर	<i>Ficus glomerata</i>	Tree	Ladies Hostel	1
Sodom Apple	रुई	<i>Calotropis procera</i>	Shrub	Ladies Hostel	2
Golden Champasोन चाफा		<i>Michelia champaca</i>	Tree	Ch Lab	3
Mango	आंबा	<i>Mangifera indica</i>	Tree	Ch Lab, BG	2
Cassia	मोठी तरवड	<i>Cassia glauca</i>	Tree	Ch Lab	7
Oyster Plant	---	<i>Tradescantia spathacea</i>	Shrub	Ch Lab	5
Asparagus	शतावरी	<i>Asparagus racemosus</i>	Shrub	Ch Lab, BG	9
Peacock Flower	शंकासूर	<i>Caesalpinia pulcherrima</i>	Tree	Ph Lab,	1
Indian Almond	गोड बदाम	<i>Terminalia catappa</i>	Tree	Ph Lab,	1
Sugar Apple	सिताफळ	<i>Annona quamosa</i>	Tree	Ph Lab,	1
Passion Flower	कृष्णकमळ	<i>Passiflora incarnata</i>	Vine	Ph Lab,	1
Euphorbia Pink	---	<i>Euphorbia milli</i>	Shrub	Ph Lab	1
Hibiscus	जारचंद	<i>Hibiscus rosa-sinensis</i>	Tree	Botanical Garden BG	4
Cassia	निरगुडी	<i>Vitex negundo</i>	Shrub	BG	6
Crape Jasmine	तगर	<i>Tabernaemontana divaricata</i>	Shrub	BG	2
Indian Gooseberry	आवळा	<i>Emblica officinalis</i>	Tree	BG	1
Bamboo	बांबू	<i>Bambusa bambos</i>	Tree	BG	5
Night-fl Jasmine	पारिजात	<i>Nyctanthes arbor-tristis</i>	Tree	BG	1
Jungle Jerenium	---	<i>Ixora coccinea</i>	Tree	BG	2
Aloe Vera	अॅलोव्हेरा	<i>Aloe barbadensis miller</i>	Shrub	BG	4
Scarlet Bush	---	<i>Hamelia patens</i>	Shrub	BG	1
Basil	तुळस	<i>Ocimum sanctum</i>	Tree	BG	6
Periwinkle	सदाफुली	<i>Vinca rosea</i>	Shrub	BG	6
Whistling Pine	सरु	<i>Casuarina equisetifolia</i>	Tree	BG	1
Narium	कण्हेर	<i>Narium oliender</i>	Tree	BG	1
Mahatma	महात्मा	<i>Cordyline Terminalis</i>	Shrub	BG	2
Golden Pothos	---	<i>Epipremnum aureum</i>	Vine	BG	5





## Bio-diversity in campus : Flora

cont from page no.

English Name	Botanical Name	Type	Place	Total Plants
Lemon Grass गवती, चहा	<i>Cymbopogon flexuosus</i>	Herb	BG	5
Travellers Palm पाम	<i>Ravenala madagascariensis</i>	Palm	BG	1
Fever Tree	<i>Pinckneya pubens</i>	Shrub	BG	1
Schott Indica ब्रम्ह राक्षस	<i>Alocasia indica</i>	Shrub	BG	25
Indian Pennywort ब्राम्ही	<i>Bacopa monnieri</i>	Shrub	BG	5
Green Chiretta काळमेघ	<i>Andrographis paniculata</i>	Shrub	BG	5
Devils Backbone कांडवेल	<i>Cissus quadrangularis</i> Orn	Shrub	BG	5
Red Flame Ivy निरगूडी	<i>Hemigraphis colorata</i>	Shrub	BG	5
Indian Laburnum अमलतास	<i>Cassia fistula</i>	Tree	BG	5
Touch me not लाजाळू	<i>Mimosa pudica</i>	Herb	BG	5
Star Grass Lily जं. लसूण	<i>Iphigenia stellata</i>	Herb	BG	5
Bhringraja माका	<i>Eclipta alba</i>	Shrub	BG	5
Indian Borage पान ओवा	<i>Coleus amboinicus</i>	Herb	BG	5
Mint Plant पुदिना	<i>Mentha spicata</i>	Herb	BG	5
Coleus माईनमुळ	<i>Coleus forskohlii</i>	Herb	BG	5
Basil राम तुळस	<i>Ocimum canum</i>	Herb	BG	5
Basil तुळस	<i>Ocimum Spp.</i>	Herb	BG	5
Basil लवंग तुळस	<i>Ocimum gratissimum</i>	Herb	BG	5
Basil सब्जा	<i>Ocimum basilicum</i>	Herb	BG	5
Basil कापूर तुळस	<i>Ocimum kilimandscharicum</i>	Herb	BG	5
Arjun Tree अर्जून	<i>Terminalia arjuna</i>	Tree	BG	1
Sage-leaved Alangium अंकोल	<i>Alangium salviifolium</i>	Tree	BG	1
Gum Guggul गुग्गुळ	<i>Commiphora wightii</i>	Tree	BG	2
Soapnut Tree रीठा	<i>Sapindus trifoliatus</i>	Tree	BG	1
Ehretia खंडूचक्का	<i>Ehretia Laevis</i>	Shrub	BG	2

Total number of plants and trees are 267. Total number of species are 67 consists herbs, shrubs, climbers, small sized, mid sized and big size trees.



Arjun Tree अर्जून *Terminalia arjuna*





## Bio-diversity in campus : Fauna

### List of birds seen at various places in the campus

English Name	Scientific Name	Marathi Name
House Sparrow	<i>Passer domesticus</i>	भारतीय चिमणी
Coppersmith Barbet	<i>Megalaima haemacephala</i>	तांबट
Indian Roller	<i>Coracias benghalensis</i>	चाष
Little Green Bee Eater	<i>Merops orientalis</i>	वेडा राघू
Asian Koel	<i>Eudynamis scolopaceus</i>	भारतीय कोकीळ
Lesser Coucal	<i>Centropus bengalensis</i>	भारद्वाज
Alexandrine Parakeet	<i>Psittacula eupatria</i>	करण पोपट
Rose Ringed Parakeet	<i>Psittacula krameri</i>	लाल मान्या पोपट
Yellow Legged Green Pigeon	<i>Treron phoenicoptera</i>	हरीयल
Barn Owl	<i>Tyto alba</i>	पिंजरा घुबड
Blue Rock Pigeon	<i>Columba livia</i>	राखी कबुतर
White Breasted Waterhen	<i>Amaurornis phoenicurus</i>	लाजरी पाणकोंबडी
House Crow	<i>Corvus splendens</i>	कावळा

### List of butterflies seen at various places in the campus

Common Tiger Butterfly	<i>Danaus chrysippus</i>	ढाण्या कडवा
Striped Tiger	<i>Danaus genutia</i>	पट्टेरी ढाण्या कडवा
Common Rose	<i>Pachliopta aristolochiae</i>	गुलाबी फुलपाखरू
Common Grass Yellow	<i>Eurema hecabe</i>	पिवळी गवत भिरभिरी
Common Mormon	<i>Papilio polytes</i>	मोरमोन

### List of other insects seen at various places in the campus

Common Mosquito	<i>Anopheles SPP.</i>	डास
Praying Mantid	<i>Mantis religiosa</i>	प्रार्थना कीटक

### List of other spiders seen at various places in the campus

Cyclosa Spp.	Trashline Spider
Gnaphosidae gnaphosidae	Ground Spider
Hersiliidae hersilis	Long-spinnered Bark Spider
Oxyopidae oxyopes	Striped Lynx Spider
Salticidae rhene	Jumping Spider
Pholcidae pholcus	Celler Spider

### List of other mammals seen at various places in the campus

<i>Rattus rattus</i>	House Rats
<i>Bandicota bengalensis</i>	Indian Mole Rat
<i>Funambulus palmarum</i>	3 Striped Palm Squirrel
<i>Felis catus</i>	The Spotted Cat
<i>Bandicota indica</i>	Greater Bandicoot Rat







## List of green initiatives by Shri R.L.T. College

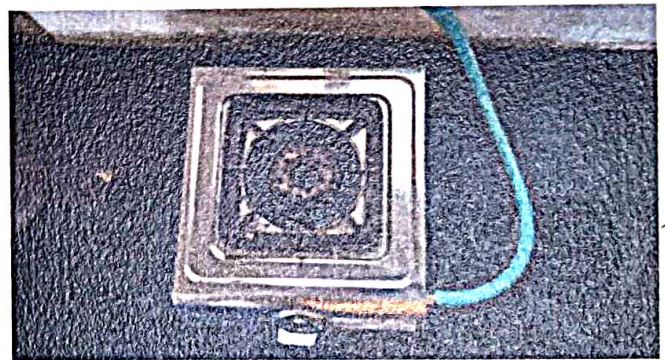
Initiatives taken by the college to make campus ecofriendly:  
Alternate sources of energy conservation on college campus:



Solar based LED lights.



Solar water heater in girl's hostel



Waste management: Solid waste management: Biogas:

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

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

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

E-waste management: Minor repair of gadgets are done by concerning laboratories staff. E- waste are sold as scrap to local garbage dealer in order to ensure their safe recycling.

Water conservation:

Rain water harvesting Rain water from the roof of college building is channelized towards water harvesting pits.



Rain water harvesting system



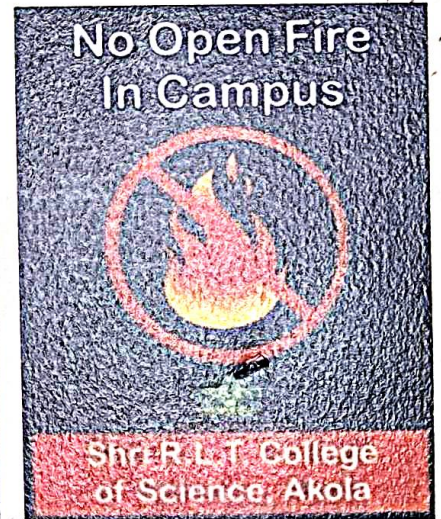
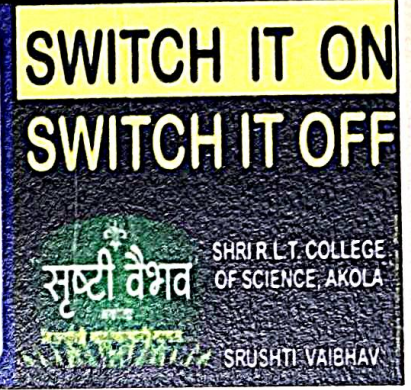




## Green initiatives by Shri R.L.T. College

### Green campus initiatives:

1. Awareness is developed among staff and students to switch off electric gadgets like light, fan, computer etc. when not required. NSS volunteers undertook campaign 'switch it ON Switch it OFF' by displaying stickers near every electric board in college campus.
2. No open fire in campus.
3. Healthy practice of use of bicycles at 1st day of every month.
4. Ban on use of Plastic
5. Tree and green patches are maintained throughout the year. Also, conservation of big trees has contributed to carbon neutrality in college campus.







## Green initiatives by Shri R.L.T. College

**Tree Plantation and saplings distribution Programme:** Van Mahotsav was celebrated by Tree plantation and distribution programme on 1st July 2017. Tree plantation was carried out in college premises on Independence Day. **Seed Bank and Botanical Nursery:** Department of Botany undertook a project of 'Seed collection' of different taxonomic plants which enable students for identification of plants and importance of seed genetic conservation. Nursery of saplings grown from naturally occurring seedlings is developed. In many programmes of college, guests are honoured by offering saplings instead of bouquet. **Swachchhata Pandharvada:** The NSS team had taken oath for the cleanliness drive under swachchhatapandharvada on 1st August 2017. College campus, classrooms were cleaned. **Cleanliness & Plastic Eradication Campaign:** Cleanliness campaign is regularly performed by a committee namely "MUNIJAN (Maharashtra University New Initiatives Joint Action Now)" in college premises, nearby area and adopted village with active participation of students and staff. **Cleanliness Rally:** On occasion of Gandhi Jayanti (2nd October 2017), the cleanliness rally was arranged by NSS team from college campus to civil line.



Tree Plantation and saplings distribution programme.



Inauguration of 'Botanical Nursery' at the hands of Dr. Ajayji Deshmukh Registrar, SGBAU Amravati



Maintenance of 'Botanical Nursery'



Cleanliness campaign in college and nearby area on Mahatma Gandhi and Lal Bahadur Shastri Jayanti







## Green initiatives by Shri R.L.T. College

### Ecofriendly celebration of festivals:

Vraksha Raksha Bandhan: Awareness was conducted to convey a message of nature and tree conservation by giving it the social touch. The trees were tied with Rakhies made by NSS volunteers (07/08/2017).

Pollution free Diwali Oath was given to the students on 13th October 2017. Students were aware about pollution due of burning of crackers. Ecofriendly Ganesh festival was celebrated in Girl's hostel.



Organization of Environment Awareness programmes: International Ozone Day: International Ozone Day (16/09/2017) was observed by organizing activities like- Intercollegiate Rangoli Competition and Guidance lectures on topic 'Caring for all life under the Sun' and 'Importance of Digital Library'. On the same occasion, 'Digital Gallery of Museum Specimen' prepared by Dr. Archana Sawarkar and Dr. Sudhir Kohchale was inaugurated and handed over to the library.



Intercollegiate Rangoli competition on theme 'Caring for all life under the Sun'.  
Winner team of Intercollegiate Rangoli competition.



Guest lecture by Dr. Hemant Sapkal on topic 'Caring for all Life under the Sun'  
Release of 'Digital Gallery of Museum Specimens'.





### Green initiatives by Shri R.L.T. College

Ecofriendly celebration of festivals: Vraksha Raksha Bandhan: Awareness was conducted to convey a message of nature and tree conservation by giving it the social touch. The trees were tied with Rakhies made by NSS volunteers (07/08/2017).

Pollution free Diwali Oath was given to the students on 13th October 2017. Students were aware about pollution due of burning of crackers. Ecofriendly Ganesh festival was celebrated in Girl's hostel.



Documentary show "Save the Tiger" for the students

Ecofriendly celebration of festivals: Vraksha Raksha Bandhan: Awareness was conducted to convey a message of nature and tree conservation by giving it the social touch. The trees were tied with Rakhies made by NSS volunteers (07/08/2017).

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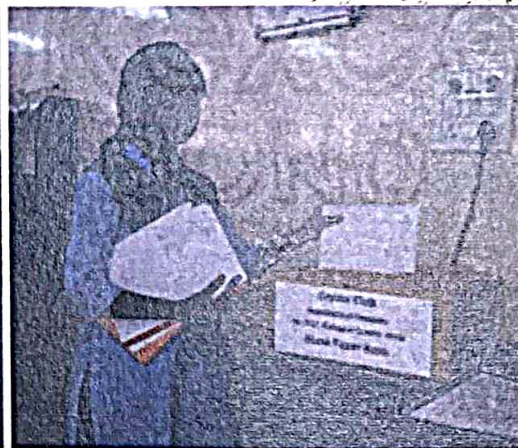
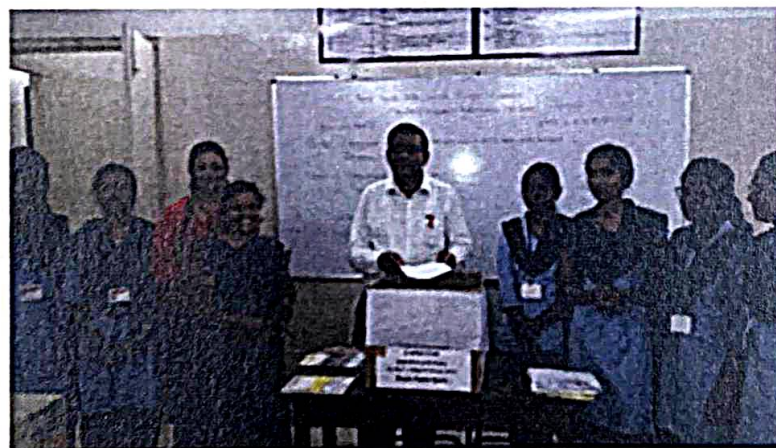


## Green initiatives by Shri R.L.T. College

**Biodiversity Calendar -2018:** To know the value of biodiversity and inculcate environment consciousness, Biodiversity Calendar -2018 was prepared, published and distributed by B.Sc. II (Biology) Students under guidance of teachers.



**Blank Paper Bank - To Save the Paper to Save the Tree:** To create environment awareness among the student and to save the papers, department of chemistry started the practice of Blank paper bank. Students use new practical manual for every semester. After the end of session, some unused or blank pages remain in it. Note books prepared from such blank papers were donated to needy children of village school and made them useful again.







### Green initiatives by Shri R.L.T. College

Environmental awareness through Study Tours: Study tours and field visits were arranged to study biodiversity, collect nature information, role of wild life for nature protection and forest conservation. Visit to Insects Museum at Entomology Department, Dr. Panjabrao Krishi Vidhyapith, Akola (6/10/2017).

Biodiversity Walk and Biodiversity Quiz Competition at Katepurna Wildlife Sanctuary (09/02/2018). Excursion Tour at Salburdi and Forest Department Wild Life Nature Garden & Interpretation Centre, Morshi (06/02/2018).

Visit to Plant Biotechnology Research Center at Dr. P.D.K.V. Akola (15/02/2018).



Visit to Insects Museum



"Nature trail" at Katepurna Wildlife Sanctuary.



Winners of the "Biodiversity Quiz" competition.



Excursion Tour at Salburdi



Medicinal Plants centre, Morshi





## Green initiatives by Shri R.L.T. College



Visit to Plant Biotechnology Research Center at Dr. P.D.K.V. Akola

Environmental awareness through popular lectures:

Medicinal plants: By Dr. S.P. Rothe, HOD, Botany, Shri Shivaji College, Akola (28/07/2017)

Aquaculture: Social and Economic values: Dr. P.S. Dhabe, HOD, Zoology, S. K. College Akola (7/10/2017).

Save Environment : Dr. I. A. Raja, Shri Shivaji Sci. College Akola

Ranbhaji : Wealth for health: Mrs. V.N. Badgujar, HOD, Botany (09/01/2018)

Biodiversity & wildlife Managements: Shri P.M. Khadse, Asst. Professor, Botany.

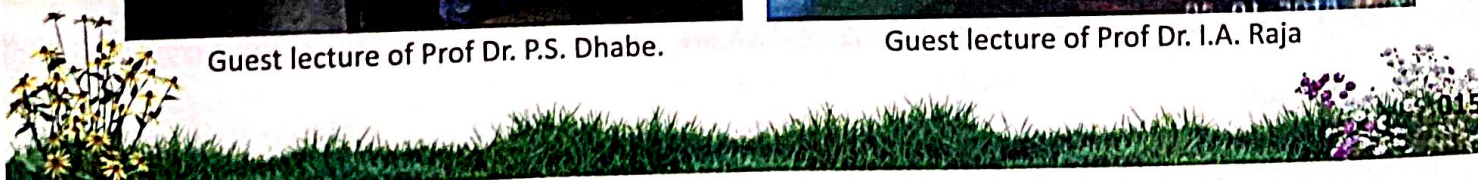
**B** Water basin, Water pots and nests for birds: A Water basin in Botanical garden satisfies bird's need of water for drinking and bathing. On International Sparrow Day (20/03/2018), Bird nests & earthen water-pots were tied on the plants in the garden and college campus. Students regularly watered it carefully, as the temperature raises high in summer. Also, Gambusia fishes are released.



Guest lecture of Prof Dr. P.S. Dhabe.



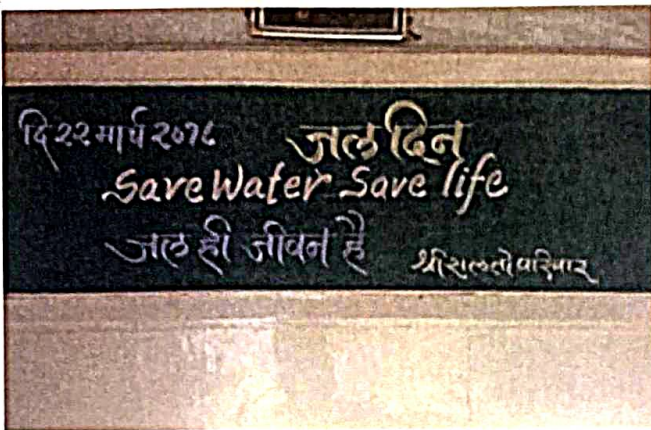
Guest lecture of Prof Dr. I.A. Raja







### Green initiatives by Shri R.L.T. College



Water pots and nests for birds

Beyond the campus environmental promotion activities: Cleanliness & Plastic Eradication Campaign (14/08/2017): On 14th August rally on Swachhata Mission was organized for creating awareness among the people. NSS volunteers and program officers made awareness by street plays at adopted village Sonala during residential camp.



Cleanliness & Plastic Eradication Campaign by all NSS volunteers.

Preparation of Soak pits in adopted village Sonala(24/09/2018): On eve of NSS foundation day rally was organise "SwachhataHich Seva" Mission. Cleanliness and awareness programme at gram Sonala, Soak pit construction for water conservation and Nail cleaning was done by NSS volunteers.



Cleanliness and awareness programme at gram Sonala.

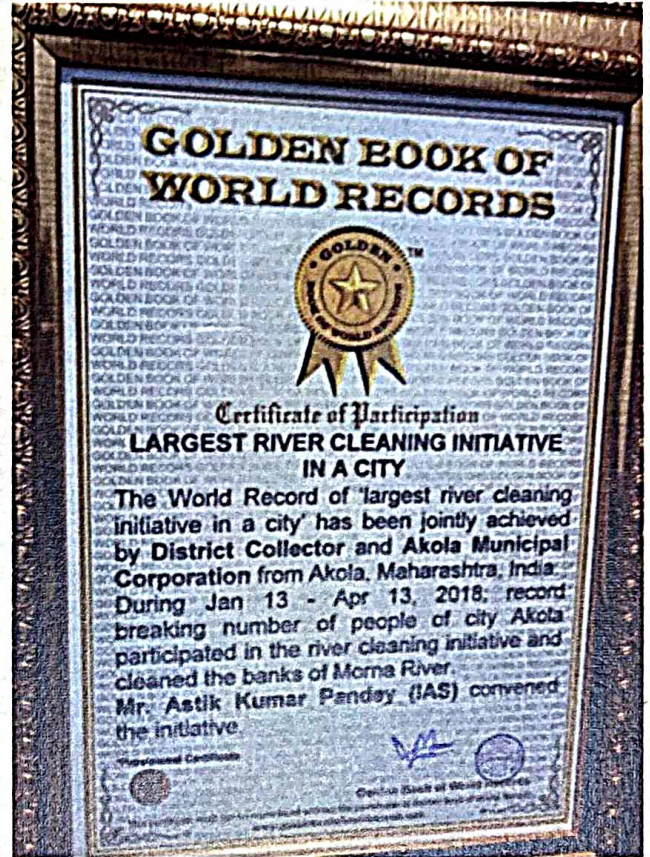






## Green initiatives by Shri R.L.T. College

Morna river cleanliness program: Staff and students of college were participated in the Morna cleanliness drive launched by District Collector of Akola district Shri Aastik Kumar Pandey, where Eichornia was removed from water body (January to April 2018).







Licence for possessions of certain chemicals.

आणि अतिरिक्त कोणत्याही  
दिनांक २००० च्या मान्यतेने सदर  
अनुज्ञापनाचा अर्ज (आवक) दिव्य करून  
१०० लिटर (२५ गॅलॉन) किंवा कमीत  
थारुन आहे.



FORM R. S. II.  
[Rule 5 (1) (b)]

Licence No. 2/556

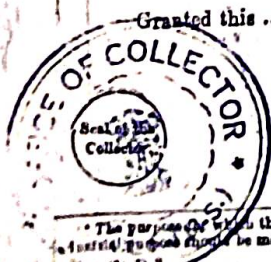
Licence for the possession and use of rectified spirit including absolute alcohol for industrial, medicinal, scientific and educational purposes.

Licence is hereby granted, under and subject to the provisions of the Bombay Prohibition Act, 1949 (Bom. XXV of 1949), and the rules, regulations and orders made thereunder, to Principal Keshavn Lawminarayan Tasmal College of Science, Akola (hereinafter called "the licensee") on payment of a fee of Rs. 100/- in advance, authorising him to buy, possess and use rectified spirit including absolute alcohol (hereinafter called "spirit") during the period from 1-4-1955 to 31-3-1956, at his premises situated at Akola (hereinafter referred to as "the licensed premises"), subject to the following conditions, namely:—

Conditions.

- The licensee shall not use the spirit for any purpose except for Educational
- (1) The licensee shall not buy spirit except on a requisition countersigned by an Officer of the Prohibition and Excise Department duly authorised in that behalf.  
(2) The licensee shall not buy spirit in any one month exceeding 60 (Sixty) litres only in the aggregate.  
Rectified Spirit & Absolute Alcohol  
bulk gallons 18 quart bottles 60
- The licensee shall not have in his possession more than 60 (Sixty) litres only of spirit at any one time.  
Absolute Alcohol
- The licensee shall keep all the spirit received by him in a place in the licensed premises approved by the local Inspector of Prohibition and Excise under lock and key and all issues of spirit from the said place shall be made in the presence of the licensee or a person duly authorised by him in writing in that behalf.
- (1) The licensee shall maintain such accounts as may be prescribed by the Director of Excise and Prohibition under the Act. The account shall be kept in a bound book, paged and stamped with the seal of the Collector.  
(2) The licensee shall keep, along with the account book, the requisitions and transport passes relating to the spirit received at the licensed premises.  
(3) The licensee shall submit such returns as may be prescribed by the Director of Excise and Prohibition under the Act.  
(4) The licensee shall furnish to the Collector such other information relating to the subject matter of this licence as the Collector may from time to time require.
- The licensee shall pay to Government such cost of the Prohibition and Excise staff if it is appointed of Excise and Prohibition for supervision over the use of rectified spirit, as may be fixed by the Director.
- The licensed premises, the spirit kept therein and the account books, requisition and transport passes referred to in condition 5 and this licence shall at all times be open to inspection by the Collector, or any Prohibition and Excise or Police Officer not lower in rank than a Sub-Inspector of Prohibition and Excise or Police, as the case may be, or by any other officer empowered under section 77 (a) of the Bombay Prohibition Act, 1949, who may be deputed or authorised by the Collector or the Superintendent of Prohibition and Excise in this behalf.
- The accounts, requisitions and transport passes referred to in condition 5 and the licence shall be preserved by the licensee during the whole of the period of this licence.

Granted this ..... day of ..... 1955



Collector of .....

The purpose for which the spirit is to be used should be clearly stated here. In the case of use for industrial purposes the specific industrial purpose should be mentioned.





Licence for possessions of certain chemicals.

अनुज्ञापती क्र. 99/2019-20  
नुतनीकरण शुल्क रु. 500/- इयलन क्र. 1110/398  
दिनांक 9/3/2019 मुतार वसुल करुन पुर्वीच्याच  
शर्तीवर या अनुज्ञापतीचे दि. 01/04/2019 ते  
दि. 31/03/2020 पर्यंत नुतनीकरण करण्यांत येत आहे.



जिल्हाधिकारी, अकोला  
करिता

अनुज्ञापती क्र. 11/2020-21  
नुतनीकरण शुल्क रु. 400/- इयलन क्र. 1110/345920/2019  
दिनांक 16/3/2020 मुतार वसुल करुन पुर्वीच्याच  
शर्तीवर या अनुज्ञापतीचे दि. 01/04/2020 ते  
दि. 31/03/2021 पर्यंत नुतनीकरण करण्यांत येत आहे.

जिल्हाधिकारी, अकोला  
करिता

अनुज्ञापती क्र. 11/2021-22  
नुतनीकरण शुल्क रु. 425/- इयलन क्र. 1283620/2020  
दिनांक 24/03/2021 मुतार वसुल करुन पुर्वीच्याच  
शर्तीवर या अनुज्ञापतीचे दि. 01/04/2021 ते  
दि. 31/03/2022 पर्यंत नुतनीकरण करण्यांत येत आहे.

जिल्हाधिकारी, अकोला  
करिता

अनुज्ञापती क्र. 05-1051  
नुतनीकरण शुल्क रु. 400/- इयलन क्र. 1110/398  
दिनांक 9/3/2019 मुतार वसुल करुन पुर्वीच्याच  
शर्तीवर या अनुज्ञापतीचे दि. 01/04/2019 ते  
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जिल्हाधिकारी, अकोला  
करिता







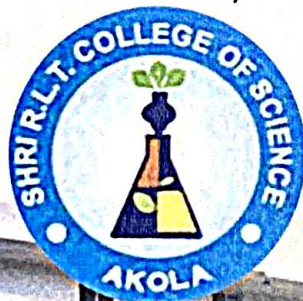
## Conclusion:

Internal Green & Environment Audit was conducted by an Internal Green & Environment Audit Committee i.e. IGEAC. The committee consisted of teaching, non-teaching staff, and external subject specialist members. It started in the month of April 2017 with the organizing Pre Audit Training Workshop. The workshop gave clear directives and directions to all members. Subject specialists offered a complete set of directives about data collection and the importance of the Questionnaire. The questionnaire was provided to the committee and data collection started in September 2017. The necessary information and crucial data collection were completed and a draft report was complete in April 2018. The review meeting was organized in May 2018. The special meeting was called upon in June 2018 to approve, accept, and release Internal Green & Environment Audit Report for the year 2017-2018.

A conclusion can be made from the Internal Green & Environment Audit Report for the year 2017-2018 that the environment in the R.L.T. College of Science is healthy. The committee has made short-term and long-term recommendations to take environmental protection and its management practices to higher levels.

Internal Green & Environment Audit Report for the year 2017-2018 will become an effective tool for all the future Internal Green & Environment Audit Reports. The procedures, processes, and practices followed in the report-making will surely evolve every year. The Internal Green & Environment Audit committee will strive hard to make audit reports more informative and useful. Internal Green & Environment Audit Committee thanks each & everyone involved directly and indirectly in making this Internal Green & Environment Audit Report.

B. G. E. Society's



## Shri R.L.T. College of Science

New Radhakisan Plots, Akola Maharashtra 444001, India

**INTERNAL GREEN & ENVIRONMENT AUDIT REPORT**

