



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 were collected and scrutinized by Internal Green Audit Committee. College has successfully established eco-friendly practices and management systems at all levels. The evidences are substantial. We appreciate the efforts taken by teaching, non teaching staff and students towards keeping the campus green.

Term of validity : April 1st 2018 - March 31st 2019

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
Environment Consultancy, Ramdas Peth, Akola

Conservation is a state of harmony between men and land. - Aldo Leopold



Internal Environment Audit Program

This is to certify that the Internal Environment 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 environment protection & monitoring activities were collected and scrutinized by Internal Environment Audit Committee. College has successfully established environmental practices and management systems at all levels. The evidences are substantial.

Term of validity : April 1st 2018 - March 31st 2019


Devendra Telkar

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



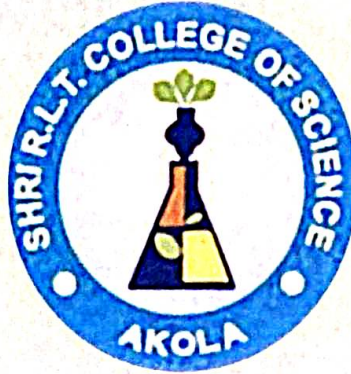

Uday Vaze

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





B. G. E. Society's



Shri R.L.T. College of Science

New Radhakisan Plots, Akola

Maharashtra 444001, India

2018 - 2019

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 1st 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 11th and 12th 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 External Member, IGEAC	
06	Dr. S. M. Nagrale	EFEC HOD, Member, IGEAC	
07	Mrs. V. N. Badgujar	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 2018

Questionnaire Data Collection started : September 2018

Draft report completed : April 2019

Review Meeting : May 2019

Final report completed : June 2019



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 2018. 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 2018-19.

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.





Contents:

Sr. No.	Title / topics	Page No.
01	Acknowledgment / About Shri R.L.T. College of Science	I
	Internal Green & Environment Audit Committee	II
	Synthesis Document / Statement of Assertion/ Compendium	III
02	Introduction	001
	Internal Green Audit	001
	Internal Environment Audit	001
03	Scope / Objective	001
04	Methodology	002
05	Environment Policy	003
06	Aims and objectives of environment policy	003
07	Location of the college	004
08	Internal Green and Environment Audit training	004
09	Audit Questionnaire & Audit Forms	004
10	Bio-diversity on campus: Flora & Fauna	004
11	Green initiative	004
12	Internal green & environment audit document storage	004
13	Bio-diversity on college campus: Flora	005
21	Bio-diversity on college campus: Flora	006
22	Bio-diversity on college campus: Fauna	007
23	List of green initiatives	008
24	License for possession of certain chemicals	017
25	Conclusion	019



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. 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 औदुंबर	<i>Ficus glomerata</i>	Tree	Ladies Hostel	1
Sodom Apple रूई	<i>Calotropis procera</i>	Shrub	Ladies Hostel	2
Golden Champa सोन 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 जास्वंद	<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
D. 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, midsized and big size trees.



Touch me not लाजाळू *Mimosa pudica*



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>Eudynamys 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 Mantis	<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 SpiderL
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



Green initiatives by Shri R.L.T. College

Tree plantation Campaign at the Bank of River Morna:
(Date: 01/07/2018)

Tree plantation Campaign at the Bank of River Morna was organised by Forest Department and Social Forestry Department, Akola, under the guidance of Shri Aastik Kumar Pandey, Hon. Collector, Akola. The plantation drive was done at the bank of River Morna. Plantation was started by the hands of State Minister Dr. Ranjit Patil. Shri R.L.T. College of Science contributed to this program. On Vansavardhan Divas and Krushi Divas i.e. on 1st July 2018 at 08.30 am total 35 participants including Principal, members of Environmental Cell, NSS volunteers and NSS Program Officers of Shri R.L.T. College participated in the campaign. About 40 plants were planted at the bank of river Morna.



Participation in 13 Crores Plantation drive at Bank of river Morna

Swachchhata Pandharvada

(Date: 01/08/2018 to 15/08/2018)

The Complete team of NSS had taken oath for the cleanliness drive under Swachchhata Pandharvada on 1st August. Monuments and statues of social reformers and leaders were cleaned. Door to door awareness about hygiene and cleanliness by volunteers was done. College campus, classrooms were cleaned under the given government protocol by university. Cleanliness campaign at adopted village was performed. More than 300 student and staff volunteers contributed to this campaign.

For this our college received District level Swachchha Bharat Swastha Bharat Abhiyan (Clean India, Healthy India Mission) Excellent College award at the hands of Dr. Murlidhar Chandekar, Hon. Vice Chancellor of SGB Amravati University, Amravati.



Cleanliness campaign in college campus and garden.



Green initiatives by Shri R.L.T. College



Govt. Officers guiding NSS volunteers about "Swacchata app ssg-18"



Received Excellent College Award by SGB Amravati University, Amravati.

Nature reading through Mobile photography:

To create positive use of Mobile, betterment for photography, to develop constructive interest about nature and social aspects and to elaborate hidden skill in students, Mobile photography competition and exhibition was organized by Zoology department of the college. About 80 students were participated in the photography competition and exhibition. More than 300 students and staff took advantage of exhibition. Winners were felicitated with attractive prizes, awards and certificates. 1st, 2nd, 3rd and two consolation prizes were awarded.



Vruksha Raksha Bandhan (Date: 27/08/2018):

The NSS team of college conducted the best activity to convey a good message to society for nature and tree conservation by giving it the social touch. The trees were tied the ecofriendly paper rakhi which were made by the NSS volunteers. About 100 students and staff members participated in the event.





Green initiatives by Shri R.L.T. College

Eco-friendly Ganesha Idol preparation (Date: 06/09/2018):

Department of Microbiology in collaboration with Department of Social Forestry & local NGO Nisarg Katta, Akola organized "One day workshop on Eco-friendly Ganesha Idol preparation" on 06 September 2018. Total 110 candidates participated in the workshop.



Swaccha Bharat Abhiyan: Cleanliness campaign (Date: 24/09/2018 to 02/10/2018):

The NSS and NCC team of Shri R. L. T. college of Science organized different program on the occasion of the 4th anniversary of "Swaccha Bharat Abhiyan". As on 2nd October 2018 it was the 150th birth anniversary of Mahatma Gandhi, the government had launched the "Swachhata hi Seva" movement from 24 September to 2nd October 2018. Under this movement our NSS program officer and NCC care taker conducted activities as "Slogan for cleanliness" competition. Cleanliness work was done at city bus stop, our institution as well as civil line area.

Cleanliness Rally: The 38 NCC JW/JD cadets organized "Shwachta Abhiyan rally" on 1st Oct. 2018. The cleanliness rally on occasion of Gandhi Jayanti (02/10/2018) was arranged by NSS team from college campus to civil line and again to the campus. On the way the NSS programme officers and Principal of the college along with the volunteers walked by sweeping the road sides and area around the civil lines. Two of the volunteers were dressed up in the Mahatma Gandhiji and Saint Gadge baba costume and were the point of attraction of the rally. The rally was started along with 140 students and Staff members from the college campus. Along the run the volunteers were announcing the slogans for cleanliness and the street play was performed to make awareness in the public. The route of the rally was from the college campus to civil lines and finally to the city bus stop.



Cleanliness Rally by NCC Cadets



Cleanliness Rally by NSS Team



Green Initiatives by Shri R.L.T. College

Wall Magazine: BESST (Biological & Environmental Studies with Social Temperament):
Wall Magazine BESST (Biological and Environmental Studies with Social Temperament) is started to provide a launch pad for the student's creative urges to blossom naturally. This humble initiative is to set the budding minds free allowing them to roam free in the realm of experience to create a living world in words. Our student authors have put across some amazing pieces of writing in this Wall Magazine. The first issue of Wall Magazine BESST was released on 11th August 2018 with the hands of Principal Dr. V. D. Nanoty in presence of IQAC Coordinator Dr. R.L. Rahatgaonkar and Dr. S.M. Nagrale, Head Department of Zoology. Dr. Archana S. Sawarkar worked as Chief Editor and Dr. Sudhir R. Kohchale, Dr. Rashmi Joshi (Sawalkar), Mr. Shailendra V. Madavi worked as Area Editors for Animal Science, Environmental science and Plant Science respectively.



Publication of Biodiversity Calendar -2019 : To know value of biodiversity and inculcate environmental consciousness among students Biodiversity Calendar -2019 was published on 24th December 2018 with the hands of eminent personalities Hon. Mr. Randhir Savarkar (Member of MLA) and Mr. Viplove Bajoria (Member of MLC). It is an Innovative attempt made by B. Sc. II (Biology) students under supervision of Dr. Archana S. Sawarkar (Dept. of Zoology) and Dr. Anjali A. Sangole (Dept. of Botany). Along with flora and fauna, Academic holidays as well as special days concerning environmental issues and importance of biodiversity are mentioned in it. Biodiversity Calendar -2019 is a master piece of efforts taken by students to complete their participatory learning project.





Green Initiatives by Shri R.L.T. College

Akola City Bird Election: Akola City bird election was conducted on 19 January 2019 at college auditorium. The event was organized by Akola District Election Office and local NGO Nisarg Katta in collaboration with the Zoology department of Shri RLT College of Science Akola. Total 776 students and staff participated in the voting process. Five bird candidates were there for the contest. After counting common Egret was elected as bird of Akola for the next 5 years. The event was organized to understand the importance of birds in the ecosystem as well as for voter awareness.



Student's Project Birds of Akola: The project entitled "Birds of Akola" is a piece of work carried out by B.Sc. II students under supervision of Dr. Archana S. Sawarkar. It is an innovative participatory learning project which included 329 species of birds from 69 families found in Akola region. Information about habit and habitat, general characters, feeding behavior and ecological importance of each bird is given. Proceeding of the project was released by the hands of Dr. R. B. Heda, President, The B.G.E. Society, Akola on 12th March 2019.





Green initiatives by Shri R.L.T. College

Flower Show: Aim was to broaden knowledge of horticulture, floral design, conservation, photography and to share the beauty of nature to the observers. The winners of the programme were awarded.



Wild Life Pencil Art Exhibition: Department of zoology has organized the wild life pencil art exhibition on 12th of March 2019. The inauguration of the exhibition was done by the hands of respected Dr. R.B. Heda, President of the B.G.E. Society, Akola in the gracious presence of executive members of B.G.E. society and respected Dr. Katore, Head P. G. Dept. of Mathematics, SGBAU, Amravati. The sketches of wild life were drawn by the B.Sc. students. It was an effort made by organizing committee to create awareness about biodiversity conservation and developing skill other than studies among the students.



Students from different schools are watching the art gallery sketches drawn by B.Sc. students



All The respected dignitaries along with the organizing committee members

Jaljagruti Saptah (Date: 16/03/2019 to 22/03/2019): On occasion of 'Jaljagruti Saptah' Environmental Cell of Shri R.L.T. College, Akola Conducted test for B.Sc. students on 15th March 2019, which was organised by Vidarbha Patbandhare Vikas Mahamandal Nagpur & Akola Sinchan Mandal Akola.

On 16th March 2019, Environmental cell members and students participated in one day workshop on "Save water & water harvesting methods" held at Shri Khandelwal College, Akola in collaboration with Rotary club & Akola Sinchan Mandal, Akola. Students took part in 'Run for Water Campaign' on 17 March 2019 at Jilhadhikari karyalaya, organized by Akola Sinchan Mandal Akola, & Rotary club, Akola in Collaboration with Khandelwal College. On the same occasion of "Jalagruiti Abhiyan" Environmental Cell of college organized Poster competition on 'Save Water' for UG & PG students. In All 52 students were participated from UG & PG level. The winners were awarded by certificate & cash prizes.



Participation in 'Run for water campaign'.



Poster competition on 'Save Water'



Green Initiatives by Shri R.L.T. College

Water pots and nests for birds (Date: 20/03/2019): Department of Zoology celebrate World Sparrow Day on 20th March 2019. For drinking water to Sparrows, clay earthen pots were placed in the garden and college campus. Water pots were filled with water by the students and staff. Dr. S.M. Nagrale appealed students to conduct this nice activity at their residence for conservation of birds in summer. On behalf of Environmental Cell of college, Bird's Nests were tied on various plants in the Botanical Garden and College Campus. Students were also encouraged to hang these pots and Nests at their home & other social premises.



World Sparrow Day celebration by placing Water pots and nests for birds.

Alternate Energy initiatives such as:

1. Solar water heater of 1000 litres capacity in girl's hostel.
2. Automatic solar based LED lights in college campus.
3. Biogas Plant in girl's hostel.

Initiatives taken by the institution to make the campus eco-friendly:

1. Water harvesting pit: Rain water from the roof of college building is channelized towards water harvesting pit which is constructed near borewell in front of hostel and library.

Nursery of saplings grown from naturally occurring seedlings in college campus.: Nursery of saplings grown from naturally occurring seedlings was developed by Department of Botany. Every year seeds of different plants (Neem, Tecoma, Custard apple, Ficus etc.) germinated naturally below the parent trees. The newly developed seedlings die due to both natural and artificial causes. To protect these seedlings, it is a good idea to prepare nursery of saplings. Seedlings of different plants like Neem, Tecoma, Custard apple, Ficus etc., were collected from the college campus. These seedlings were planted into the plastic bags containing soil and manure. Proper care was taken up to seedlings converted into saplings. Saplings were distributed among students and college employees for plantation. Instead of flowers these saplings were utilized for felicitation of students, welcoming of guests, which promotes the conservation of Green Earth. This year about 300 saplings were developed in the nursery.



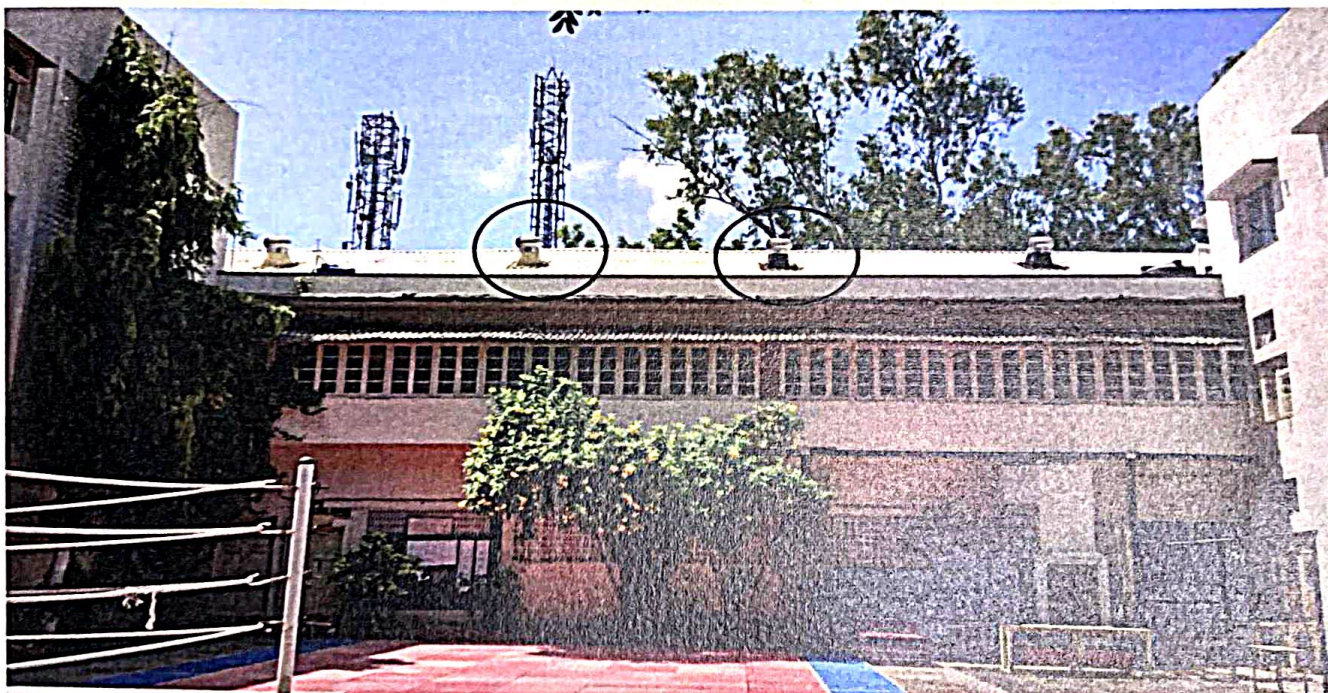


Green initiatives by Shri R.L.T. College

1. Tree plantation in college campus: On occasion of Independence Day, Department of Botany, NSS and NCC unit undertook tree plantation programme to maintain eco-friendly and pleasant green campus.



Due to installation of 'Turbo-ventilators' on the roof of auditorium and some class room (1, 2 and 3) for exhaust of gases, consumption of electricity required by fans and air conditioners has reduced to great extent.



Power Saving LED bulbs are installed in laboratories and administrative offices.
Vermicomposting: Various organic wastes mainly garden waste are used as substrates for the preparation of vermicompost in college premises.
Reduced electricity consumption due to installation of 'Solar water heater' in girl's hostel and 'Automatic solar based LED lights' in college campus.





Licence for possessions of certain chemicals.



FORM R. S. II.

[Rule 5 (1) (b)]

Licence No. 2/55-66

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 Laxminarayan Tasmal College of Science, hereinafter called "the licensee" on payment of a fee of Rs. 1,500 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.

1. The licensee shall not use the spirit for any purpose except for Educational

2. (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 of Rectified Spirit & Absolute Alcohol in the aggregate.

3. The licensee shall not have in his possession more than 60 (Sixty) litres only of Absolute Alcohol of spirit at any one time.

4. 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.

5. (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.

6. 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.

7. 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.

8. 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.

अनुज्ञप्ती क्र. 99/2019-20...
नुतनीकरण शुल्क रु. 400/- इषलने क्र. MHE/398/2019
दिनांक 09/03/2019...
शर्तीवर या अनुज्ञप्तीचे दि. 01/04/2019 ते
दि. 31/03/2020 पर्यंत नुतनीकरण करण्यांत येत आहे.



दि. 11/11/2019...
जिल्हाधिकारी, अकोला
करिता

अनुज्ञप्ती क्र. 11/2020-21...
नुतनीकरण शुल्क रु. 400/- इषलने क्र. MHE/345928/2019
दिनांक 16/03/2020...
शर्तीवर या अनुज्ञप्तीचे दि. 01/04/2020 ते
दि. 31/03/2021 पर्यंत नुतनीकरण करण्यांत येत आहे.

दि. 11/11/2020...
जिल्हाधिकारी, अकोला
करिता

अनुज्ञप्ती क्र. 11/2021-22...
नुतनीकरण शुल्क रु. 425/- इषलने क्र. 1383620
दिनांक 24/03/2021...
शर्तीवर या अनुज्ञप्तीचे दि. 01/04/2021 ते
दि. 31/03/2022 पर्यंत नुतनीकरण करण्यांत येत आहे.

दि. 11/11/2021...
जिल्हाधिकारी, अकोला
करिता

अनुज्ञप्ती क्र. 05-09/...
नुतनीकरण शुल्क रु. 400/- इषलने क्र. MHE/...
दिनांक 05/03/2021...
शर्तीवर या अनुज्ञप्तीचे दि. 01/04/2021 ते
दि. 31/03/2022 पर्यंत नुतनीकरण करण्यांत येत आहे.

दि. 05/03/2021...
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 2018 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 2018. The necessary information and crucial data collection were completed and a draft report was complete in April 2019. The review meeting was organized in May 2018. The special meeting was called upon in June 2019 to approve, accept, and release Internal Green & Environment Audit Report for the year 2018-2019.

A conclusion can be made from the Internal Green & Environment Audit Report for the year 2018-2019 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 2018-2019 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.



Shri R.L.T. College of Science

New Radhakisan Plots, Akola Maharashtra 444001, India

INTERNAL GREEN & ENVIRONMENT AUDIT REPORT