



Internal Green Audit Program 2020-2021

This is to certify that the internal green audit report of

Shri R.L.T. College of Science, Akola, Dist. 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, non-teaching staff, and students towards keeping the campus green.

Term of validity: April 1st, 2020 - March 31st, 2021

A handwritten signature in black ink, appearing to read "Srushti Vaibhav".

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

A handwritten signature in black ink, appearing to read "Jay Vase".

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



Internal Environment Audit Program 2020-2021

This is to certify that the internal environment audit report of

Shri R.L.T. College of Science, Akola, Dist. 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 and conservation initiatives was collected and scrutinized by Internal Environment Audit Committee. The college has successfully established practices and management systems to protect the environment at every possible level. The evidence is substantial. We appreciate the efforts taken by teaching, non-teaching staff, and students.

Term of validity: April 1st, 2020 - March 31st, 2021




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Srushti Vaibhav, Nature Conservation Society
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Environment & Forest Education Center, Ramdas Peth, Akola





B. G. E. Society's



Shri R.L.T. College of Science

New Radhakisan Plots, Akola

Maharashtra 444001, India

2020 - 2021

INTERNAL GREEN & ENVIRONMENT AUDIT REPORT



Prepared by:

Internal Green & Environment Audit Committee

Shri R.L.T. College of Science

Akola, Maharashtra



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	
02	Mrs. V. N. Badgajar	Chairman, IGEAC	
03	Dr. R. J. Rahatgaonkar	IQAC, Co-ordinator	
04	Dr. P. M. Khadse	Member, IGEAC	
05	Dr. S. M. Nagrale	HOD, Member, IGEAC	
06	Dr. P. T. Agrawal	HOD, Member, IGEAC	
07	Dr. A. A. Sangole	Member, IGEAC	
08	Prof. S. V. Madavi	Member, IGEAC	
09	Dr. R. P. Joshi	Member, IGEAC	
10	Dr. A. A. Amle (Sawarkar)	Member, IGEAC	
11	Dr. S. R. Kohchale	Member, IGEAC	
12	Dr. K. M. Heda	Member, IGEAC	
13	Prof. S. N. Gawande	Member, IGEAC	
14	Mr. Devendra Telkar	External Member, IGEAC NGO : Srushti Valbhav	
15	Mr. Uday Vaze	External Member, IGEAC Director : EFEC	
16	Mr. Deepak Wankhade	Member IGEAC (Non Teaching Staff Rep.)	
17	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 2020
Questionnaire Data Collection started : September 2020
Draft report completed : April 2021
Review Meeting : May 2021
Final report completed : June 2021



Synthesis Document

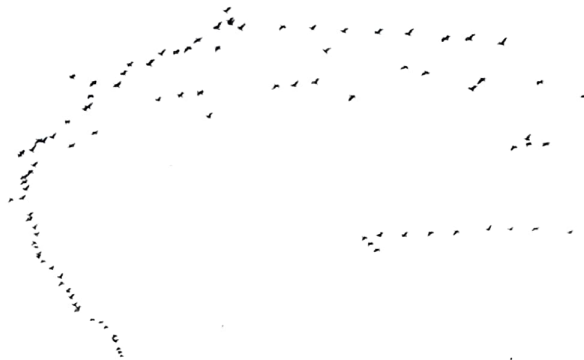
Internal Green & Environment Audit is assigned to the Criteria 7 of NAAC, National Assessment, and Accreditation Council. The Internal Green & Environment Audit Committee was formed. The committee planned for conducting an Internal Green and Environmental Audit of the college in July 2019. The intention 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.

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.

Sound Pressure Level Testing

Several sound pressure level tests were carried out to measure noise pollution created by vehicles passing by the college campus. The college is situated in the heart of the city. The road adjacent to the college campus is one of the busiest roads in the city. The results of the tests (Annex -L) came out to be slightly above the prescribed limit. To combat the noise pollution caused by vehicular noise the Internal Green and Environment Committee has recommended remedial measures (Annex-M).

Primary Air Quality

Several primary air quality tests were carried out. The results of the tests (Annex No. IV) came out to be within the prescribed limit. To stop air pollution caused by vehicular emissions entering the campus. The committee has recommended remedial measures to improve the air quality of the campus caused due to vehicular pollution made by vehicles passing by city road adjacent to the college. The recommendation is to create a barrier made by thick plantations. The Internal Green & Environment Committee has suggested specific species which are to be planted by the college. (Annex No. V).



Installation of Biogas Plant

Due to COVID 19 Pandemic the kitchen was not in any operation, no organic waste (vegetable & food waste) is generated in the kitchen of the college girl's hostel. Shri R.L.T. College of Science has installed a biogas plant that generates half of the gas required for cooking in the kitchen. The installation of solar panels, a biogas plant, and a rainwater harvesting system are noteworthy initiatives the college has endeavored recently. (Annex-I)

Biodiversity on campus: Flora

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. (Annex-B)

Fauna

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. (Annex-C)

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 (Annex-E)

Recommendations

Short term and long term recommendations are given by Internal Green & Environment Audit Committee. The recommendations made by the committee will improve the environment and will make positive impact on environment performance of the college. (Annex-E)

Shri R. L. T. College of Science has received many awards and recognition over the last few years. (Annex-F)

Post Green & Environment Audit Commitments

Review meeting was organized to discuss about recommendations made by committee after the Internal Green & Environment Audit process was completed. The Internal Green & Environment Audit Committee has given special attention to train every member of the college about PDCA model. PDCA i.e. Plan Do, Check and Act model surely helps in bringing continuous improvement in every working of the college.

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.



Schematic diagram of college campus.



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 धुजा	<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 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 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 अॅलोवेरा	<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 घहा	<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 काकमेध	<i>Andrographis paniculata</i>	Shrub	BG	5
Devils Backbone कांडवेल	<i>Cissus quadrangularis</i> Orn	Shrub	BG	5
Red Flame Ivy निरगुह्री	<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 खंहुचळा	<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.

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 चिगणी
Coppersmith Barbet	<i>Megalaima haemacephala</i>	तांबट
Indian Roller	<i>Coracias benghalensis</i>	शाव
Little Green Bee Eater	<i>Merops orientalis</i>	वेडा रापू
Asian Koel	<i>Eudynamys scolopaceus</i>	भारतीय कोकीक
Lesser Coucal	<i>Centropus bengalensis</i>	भारद्वाज
Alexandrine Parakeet	<i>Psittacula eupatria</i>	कान पोपट
Rose Ringed Parakeet	<i>Psittacula krameri</i>	नान मारवा पोपट
Yellow Legged Green Pigeon	<i>Treron phoenicoptera</i>	हरीचल
Barn Owl	<i>Tyto alba</i>	पिजरा पुबळ
Blue Rock Pigeon	<i>Columba livia</i>	रखी कुतुर
White Breasted Waterhen	<i>Amaurornis phoenicurus</i>	लाजरी पानकोंबडी
House Crow	<i>Corvus splendens</i>	काचळा

List of butterflies seen at various places in the campus

Common Tiger Butterfly	<i>Danaus chrysippus</i>	डाण्या कडवा
Striped Tiger	<i>Danaus genutia</i>	पट्टेरी डाण्या 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



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

Plantation drive was organized by Shri R.L.T. College of Science at an adopted village Apatapa. The PHC Centre was sanitized by the NSS Unit of the college on the same day.

College organized One day National E-Workshop for students, teachers, parents and farmers on Organic Farming for Sustainable Agriculture. The workshop was sponsored by Indian Science Congress Association, Amravati Chapter. Weblink : <http://rltsc.edu.in/2021/03/30/national-level-e-workshop-on-organic-farming-for-sustainable-agriculture/>

State Level E- Workshop On Eco-FRIENDLY HOLI with GRAMAYAN PRATISHTHAN (NGO)

World Sparrow Day was Celebrated virtually by collecting the different views and ideas of conservation through the young minds on the theme, "Sparrow Conservation: Today's Need".

Regular Garden and Campus cleaning is carried out by the gardener and Swacchata Doot of the College.

Weed removal is carried out in the interval of every 3 months from the garden and campus.

'Avoid use of single use plastic bags' Stickers are fixed in college premises by NSS Unit.

Collecting Water sample from the drinking water purifier to check the purity of water.

District Level Webinar on Conservation of Water was organized. The theme of the webinar was – 'Catch the Rain, Where it fall, When it fall' jointly with Nehru Yuva Kendra (Ministry of Youth Affairs and Sports). Online Quiz Competition also was carried out for the participants. Winners got Cash prize, certificate and memento. 406 students participated actively in the quiz competition.

Celebration of Wildlife Week. ZEBRA Cell, Department of Zoology celebrated World Wildlife Week-2020 by organizing various activities such as -Article Writing Competition on the topic "Wonderful World of Butterflies", Virtual Essay Competition on the topic: "Impact of Covid-19 Pandemic on Wild-life and Environment". Documentary on Tiger, Tiger Poaching Tiger Census, Conservation of Tigers in India was screened for the students. Mobile Photography Competition on theme 'Wildlife and Nature' was organized. Quiz Competition on theme 'Wildlife Conservation' was held and many students actively participated in it.

WASTE MANAGEMENT:

a) Reuse of waste and old furniture for making notice boards and boards stands. The broken furniture was reused in new form by making little modification. This way the college has successfully utilized wastage in way of refurbishing, recycling and reusing waste. The furniture which was a waste were converted into notice boards now are used in various departments of the college campus.

Save Paper Save Tree: Environment Cell organized an event to enroll students to minimize their use of paper to save trees from cutting. Save energy, save electricity: The Environment Cell with NGO 'Srushti Vaibhav' fixed stickers that remind everyone to conserve electricity. No open Fire on campus: Any open fire is not permissible as per the Municipal Corporation. To protect the college campus from pollution caused by garbage burning, the Environment Cell, and NGO 'Srushti Vaibhav' fixed posters to sensitize college staff and the community around.



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

The college has followed practice to issue a letter to all vendors and service providers to offer the best environmentally friendly products and services to the college in line with its Environmental Policy:

Environment Cell initiated 'No vehicle Day' and it is observed every last Sunday of the month. It spreads the message of protecting environment by reducing individual level carbon footprint, among the kith and kins of the college staff and students.

3 Day National Workshop: Disaster Management Preparedness was organized by the college.

NSS And NCC participants are actively involved in many conservation activities such as tree plantation activities in the adopted village Apoti Kurd (20°48'19.03" N 77°06'32.89" E)

The cleaning drive was organized by the Environment Cell of the college and involved teaching, non-teaching staff and students to participate in it.

To manage waste generated by classrooms, the dustbins are kept outside the classroom and it made the safe waste disposal task easy.

New energy-efficient lights were installed where ever possible to reduce energy consumption.

Old electrical cables were replaced with new ones.





Recommendations: Previous and present.

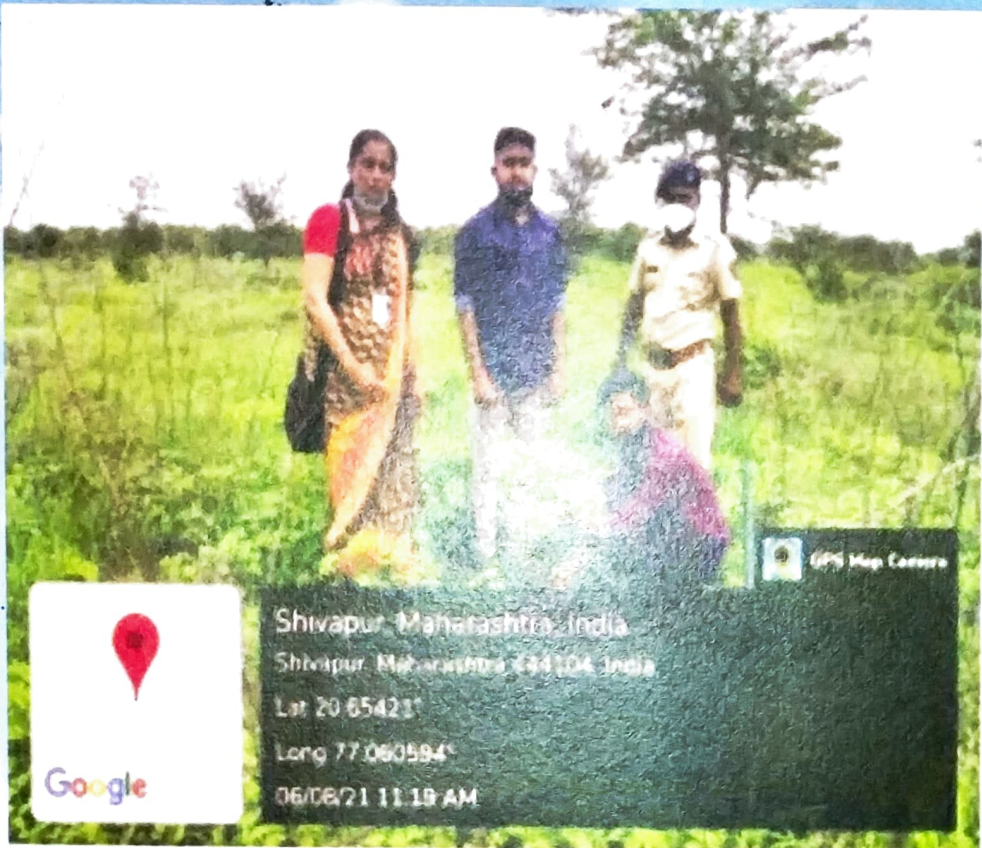
Internal Green & Environment Audit Committee surveyed and scrutinized the overall environmental performance and came out with the following recommendations:

- i) Recommendation is made to strengthen present internal and external sewage system ASAP.
- ii) The Internal Green and Environment Audit Committee recommends to installing an automatic water pump controller circuit to all the water pumps installed in the college campus to ensure that no water is wasted due to negligence. This recommendation was also made in last years audit report. It is observed that the college has installed such automatic pump which completely stooped wastage of water once the water tank is full in its capacity.
- iii) To monitor and take measures in reducing daily consumption of electricity the committee recommends to designating a person who will control the proper use of all electrical gadgets on the campus. The college will give special privileges to report the misuse of electricity if any, in any department or campus area. The committee has been formed and it is taking care to minimize the use of electricity in the campus.
- iv) The Internal Green and Environment Audit Committee expects the college to maintain a record of several number of papers used by all departments in order to review its use and make efforts to reduce its consumption on year on year basis. This recommendation was also made in last years audit report. It is observed that the office staff has made procedure to sanction paper from printing is given. This will give exact ideo of how paper is consumed.
- v) The Internal Green and Environment Audit Committee recommends to initiating measures that may reduce pollutants on the campus. The Primary Air Quality Testing showed a slight increase in the TVOC range which itself suggests adding barriers in between the adjacent road and the campus. The committee recommends to consulting a subject specialist to bring down pollutant numbers to some extent. **This recommendation was also made in last years audit report. It is observed that the efforts made by the college are not satisfactory. More efforts are needed to plant more trees at suggested places.**
- vi) The Internal Green and Environment Audit Committee recommends college focus on bringing down sound pollution and vehicular pollution by putting a sound barrier in between the adjacent road and the college classroom. The sound pressure levels detected inside classrooms in the college are slightly above prescribed limits. The committee recommends consulting subject specialists and reduces the noise coming from vehicles passing by the adjacent road. **This recommendation was also made in last years audit report. It is observed that the efforts made by the college are not satisfactory. More efforts are needed to plant more trees at suggested places.**
- vii) The Internal Green and Environment Audit Committee appreciates the way Botanical Garden and trees are maintained, but the committee recommends adding more trees, shrubs in pots at every possible place on the campus. The binomial names are to be displayed on every floral species to promote education for the students and the visitors of the college.
- viii) College must monitor and recycle old used, broken damaged glass, cans, white, colored, and brown paper, plastic bottles, batteries, print cartridges, cardboard, and furniture on a time to time basis.

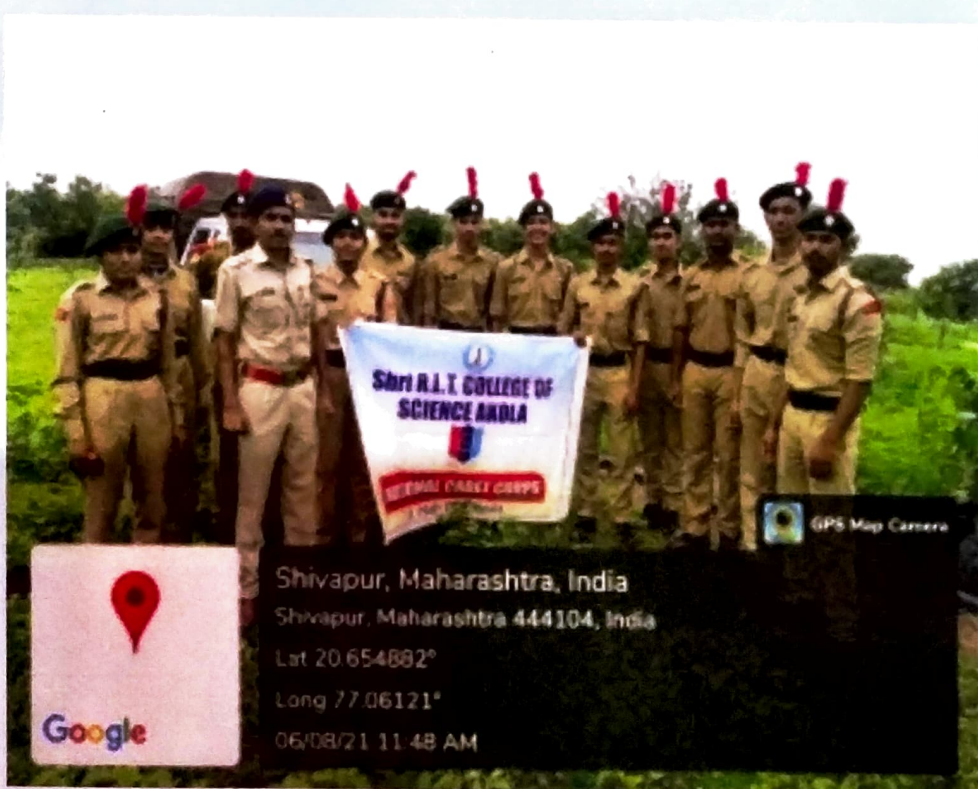




Various environment protection initiative taken by the college.



Plantation Drive by College NSS and NCC Units at Shivapur 2020-21



Plantation Drive by College NSS and NCC Units at Shivapur 2020-21



Various environment protection initiative taken by the college.



Rearing and nurturing plants that reduce pollution effects in the college campus.



Plantation Drive by College NSS and NCC Units at Shivapur 2020-21



Various environment protection initiative taken by the college.

National Level E- Workshop on
Organic Farming for Sustainable Agriculture
 Organized by
The Berar General Education Society's
Shri R. L. T. College of Science, Akola (Maharashtra)
(Recognized by NAAC with 'A' Grade CGPA-3.12 (3rd cycle))
 Sponsored by
Indian Science Congress Association (ISCA), Amravati Chapter
Date : 24th March 2021

पर्यावरण • श्री रातलतो विज्ञान महाविद्यालयात सेंद्रिय शेतीवर राष्ट्रीय कार्यशाळा; १५ राज्यातील ७९५५ प्रशिक्षणाव्यांचा उत्फूर्त सहभाग

दुष्परिणाम टाळण्यासाठी सेंद्रिय शेती सक्षम पर्याय

संक्षेप | अशांना

सैद्रिय शेती महत्वात्मक असल्याने त्याचे वापर सैद्रिय शेतीतून होणे गरजेचे आहे. सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे. सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे.


सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे. सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे.

सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे. सैद्रिय शेतीतून होणारे उत्पादन सैद्रिय शेतीतून होणे गरजेचे आहे.

College organized One day National E-Workshop for students, teachers, parents and farmers on Organic Farming for Sustainable Agriculture. The workshop was sponsored by Indian Science Congress Association, Amravati Chapter.
 Weblink : <http://rltsc.edu.in/2021/03/30/national-level-e-workshop-on-organic-farming-for-sustainable-agriculture/>



Various environment protection initiative taken by the college.



प्रकृति के रंग

प्रकृति के रंग

The Berar General Education Society's
Shri R L T College of Science, Akola
Civil Lines, Akola, Maharashtra - 444001
(Recognized by NAAC with 'A' Grade CGPA-3.1)

**STATE LEVEL E-WORKSHOP ON
ECO-FRIENDLY HOLI**

Organised by

Department of Botany
Environment Cell & IQAC
in Collaboration with Gramayan Pratishthan
(NGO), Nagpur

27th March 2021 at 4.00pm

Registration link <https://forms.gle/MSWCCG6ePZZ5hD029>

Our Patrons

Adv. M. G. Mohta
President
The Berar General Education Society, Akola

<p>Shri V. S. Toshmal Sr. Vice President The B.G.E. Society, Akola</p> <p>Shri P. N. Maheshwari Hon. Secretary The B.G.E. Society, Akola</p>	<p>Dr. R. C. Jain Jr. Vice President The B.G.E. Society, Akola</p> <p>Dr. A. G. Paranjape Joint Secretary The B.G.E. Society, Akola</p>
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All Executive Committee Members of the B. G. E. Society, Akola

Organizing Committee

Chief Organizer
Dr. Vijay D. Nanoty
Principal
Shri R. L. T. College of Education, Akola

IQAC Coordinator
Dr. S. L. Ransingkar

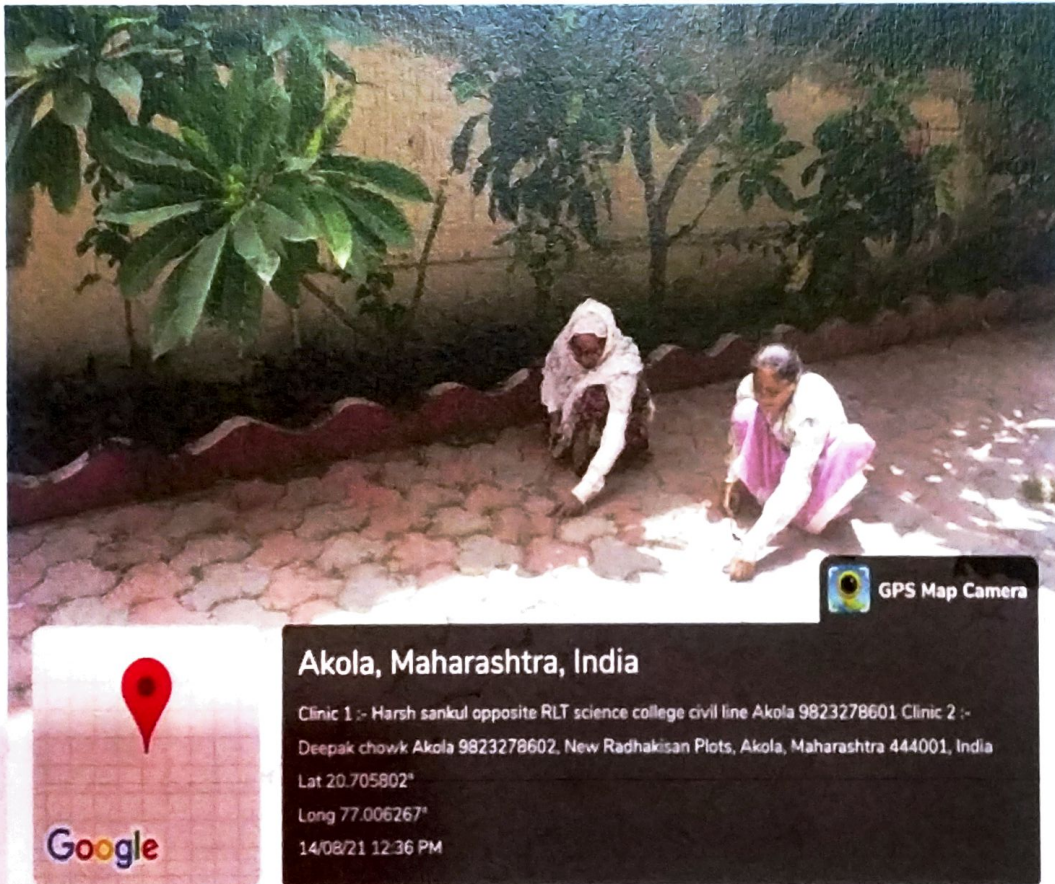
<p>Convener Dr. A. P. Zangane Assistant Professor Department of Botany</p> <p>Members Dr. S. V. Madavi Assistant Professor Department of Botany</p>	<p>Organizing Secretary Mrs. V. N. Badgujar Head Department of Botany</p> <p>Members Mr. S. V. Madavi Assistant Professor Department of Botany</p>
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All members of Environment Cell

Technical Support

<p>Dr. Y. S. Jayakar Assistant Professor Department of Computer Science</p>	<p>Dr. S. R. Jaiswal Assistant Professor Department of Physics</p>
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State Level E- Workshop On Eco-FRIENDLY HOLI with GRAMAYAN PRATISHTHAN (NGO)



Regular Garden and Campus cleaning by the gardener and Swacchata Doot of the College.

Various environment protection initiative taken by the college.



The Berar General Education Society's
SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA



Department of Zoology and IQAC

Celebrating

"World Sparrow Day"

20 March 2021

Zebra Cell, Department of Zoology & IQAC organizing an innovative
virtual competition for U.G. students and inviting the views
on the theme

Sparrow Conservation: Today's Need

You can submit your views in about 500 to 1000 words on the given mail id:

drrashmi@shri151@gmail.com

Before 20/03/21 till 6:00 pm

All participants register yourself through the google form link given below:

<https://forms.gle/4dKx1KxJ55Nc0t1v1A7>

1. Best three views from registered participants will be selected and awarded.
2. The views should be mailed in pdf format having your Name, Class and Name of Institute.
3. The last date of submission is 20/03/21 till 6:00 pm
4. All the participants will get their certificate of participation in their mail inbox after filling up the feedback form. The **Feedback form link** is <https://forms.gle/4dKx1KxJ55Nc0t1v1A7> and will open from 20/03/21.

Co-ordinator

Dr. Rashmi P. Joshi
Mob.no. 9922874886

HOD

Dr. S.M. Nagrale

IQAC Coordinator

Dr. R.L. Rahatgaonkar

Principal

Dr. V. D. Nanoty

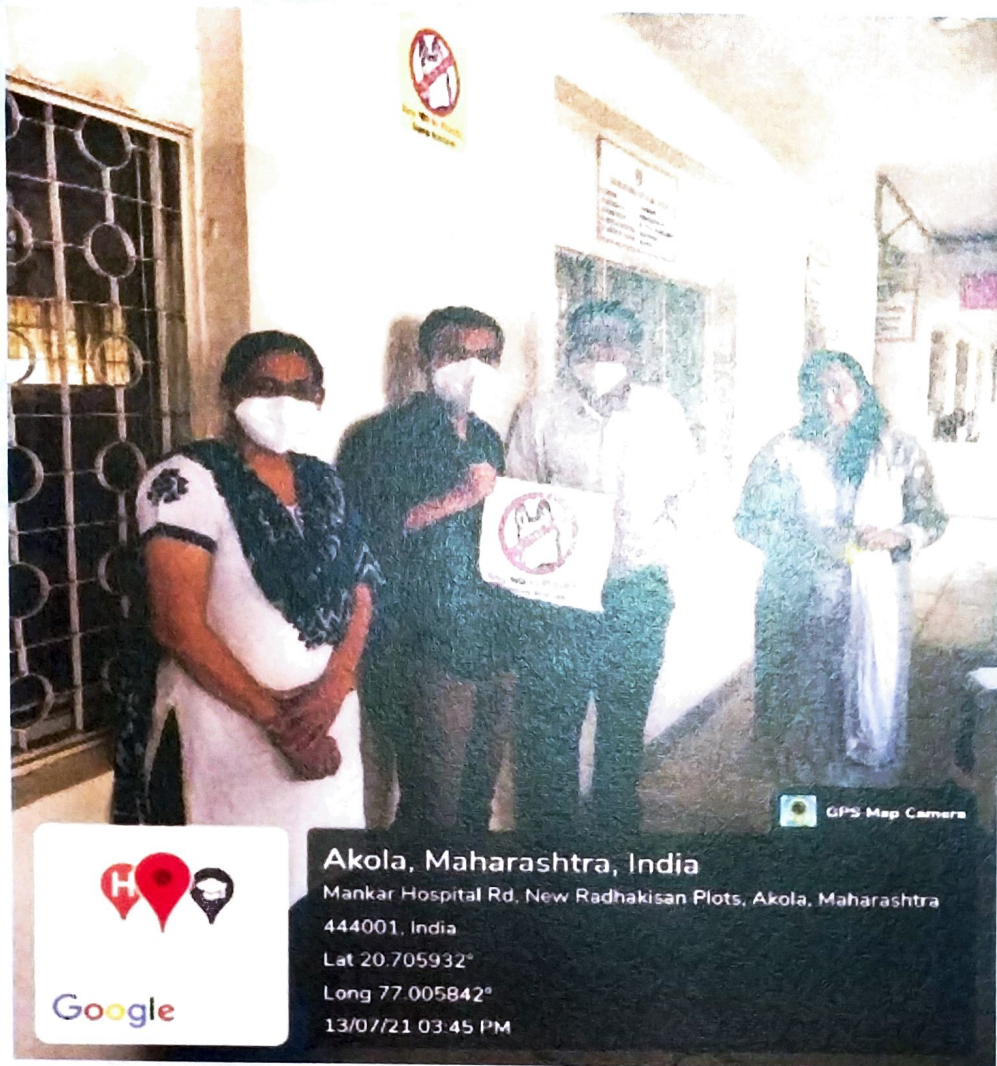
Members

Dr. A. S. Sawarkar

Dr. S. R. Kohchale

World Sparrow Day was Celebrated virtually by collecting the different views and ideas of conservation through the young minds on the theme, "Sparrow Conservation: Today's Need".

Various environment protection initiative taken by the college.



Fixing "Avoid single use plastic carry bags" sign stickers in the campus by NSS Unit



Collecting Water sample from the drinking water purifier to check the purity of water.



Various environment protection initiative taken by the college.



संस्नेह निमंत्रण

श्री. रा. ल. तो. विज्ञान महाविद्यालय, MICRANS
त निसर्गकट्टा यांच्या
संयुक्त विद्यमाने आयोजित



पक्ष्यांचे ज्युझ सेंटर

अर्थात पक्ष्यांना मधुरस
देणाऱ्या वृक्षांचे रोपण.

वृक्षारोपण समारंभ

:: प्रमुख उपस्थिती ::

मा. डॉ. विजय नाजोटी

(प्राचार्य, श्री.रा.ल.तो. विज्ञान महाविद्यालय, अकोला.)

मा. श्री. प्रदिप किडीले

(अध्यक्षीय सदस्य, निरग-कट्टा, अकोला.)

वेळ : दि २४ जुलै २०२० सकाळी ९.३० वा.

स्थळ : श्री.रा.ल.तो. विज्ञान महाविद्यालय परिसर,
सिध्दील टाईम्स रोड, अकोला.

Department of Microbiology in Collaboration with Nisarg-Katta planted summer flowering plants
College premises on 24th July 2020. Trees planted were Palash, Saptaparni and Bahawa etc.

Various environment protection initiative taken by the college.



On the occasion of 75th Independence Day Department of Botany and Environmental Cell of the College Organised Tree plantation programme. Speciality of these programme was Higher quantity of oxygen producing plants were planted. Outdoor plants like *Tecoma stans*, *Nyctanthes arbor-tristis*, *Sapindus mukorossi*, *Bauhinia recemosa*, *Putranjiva roxburghi*, *Dalbergia sissoo*, *Anthocephalus cadamba*, *Moringa olifera*, *Murraya koenigi*, *Nerium indica* & Some Indoor or In shade plants like *Ocimum sanctum*, *Ficus benjamina*, *Dypsiss lutescens*, *Dracena trifasciata* were planted.

Nehru Yuva Kendra, Akola
(Ministry of Youth Affairs and Sports)

And
Shri R.L.T. College of Science, Akola
(Recognized & Grade B SAAC, Registered with UCPA & IED)

Jointly Organizes
District Level Webinar on Conservation of Water
on Monday 15th March 2021, at 12.00 noon
Theme- Catch the Rain, Where it falls, When it falls

Registration: Free for all
Registration Link: <https://forms.gle/3HFF1qoY2Uc6d9>
Note - 1. Teachers, academicians, students (UG & PG) and academic staff may participate.
2. A small test paper will be conducted just after webinar.
3. There is a quiz at the end of the webinar and awarded with Certificates, appreciation and memento.

1st Prize 1000/- **2nd Prize 700/-** **3rd Prize 500/-**

Key Note Speakers:
Dr. Sandhir R. Kulkarni, Assistant Professor, Department of Zoology
Mr. Nilesh S. Ingle, Colonel, Armed Forces

Organizing Committee:
Dr. V. D. Nandoriya, Principal, Shri R.L.T. College of Science, Akola

Organizing Secretary: Mr. Shankar C. Zote, Assistant Professor, Department of Chemistry
Convener: Mr. Mahesh Singh Shukhankar, District Youth Officer, Nehru Yuva Kendra, Akola

Member: Dr. Arvind S. Samantkar, Assistant Professor, Department of Zoology
Member: Dr. Pravin R. Kumbhar, Assistant Professor, Department of Chemistry
Member: Mr. Shashank V. Wadhvani, Assistant Professor, Department of Botany

And
Organized by
Shri R.L.T. College of Science, Akola


District Level Webinar on Conservation of Water on Monday 15th March 2021, at 12.00 noon with Theme- Catch the Rain, Where it falls, When it falls.

Shri. Radhakisan Laxminarayan Toshniwal College of Science, Akola and Nehru Yuva Kendra (Ministry of Youth Affairs and Sports), Akola has jointly organized the webinar on the topic 'Conservation of water' under the theme of 'Catch the Rain, where it falls, when it falls'. Online Quiz Competition was carried out for the participants. Winners got Cash prize, certificate and memento. Number of Participants for the webinar was 406.




Various environment protection initiative taken by the college.

The Berar General Education Society's
Shri R. L. T. College of Science, Akola
Department of Zoology Zebra Cell & IQAC



Celebrating Virtual World Wild-Life Week-2020

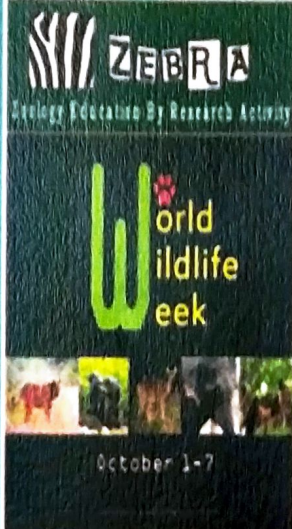


- o Essay Competition (Dr. Rashmi Joshi)
- o Mobile Photography Competition (Dr. S. Nagrale)
- o Quiz Competition (Dr. Rashmi Joshi & Dr. S. Nagrale)
- o Article Writing competition (Dr. Archana Sawarkar)
- o Wild Life Documentary (Dr. S. Nagrale)

Dr. Sushil Nagrale
H.O.D.

Dr. R. L. Rahotgaonkar
IQAC Coordinator

Dr. Archana Sawarkar Dr. Sudhir Kohchale Dr. Rashmi Joshi
Department of Zoology
Shri R.L.T. College of Science, Akola

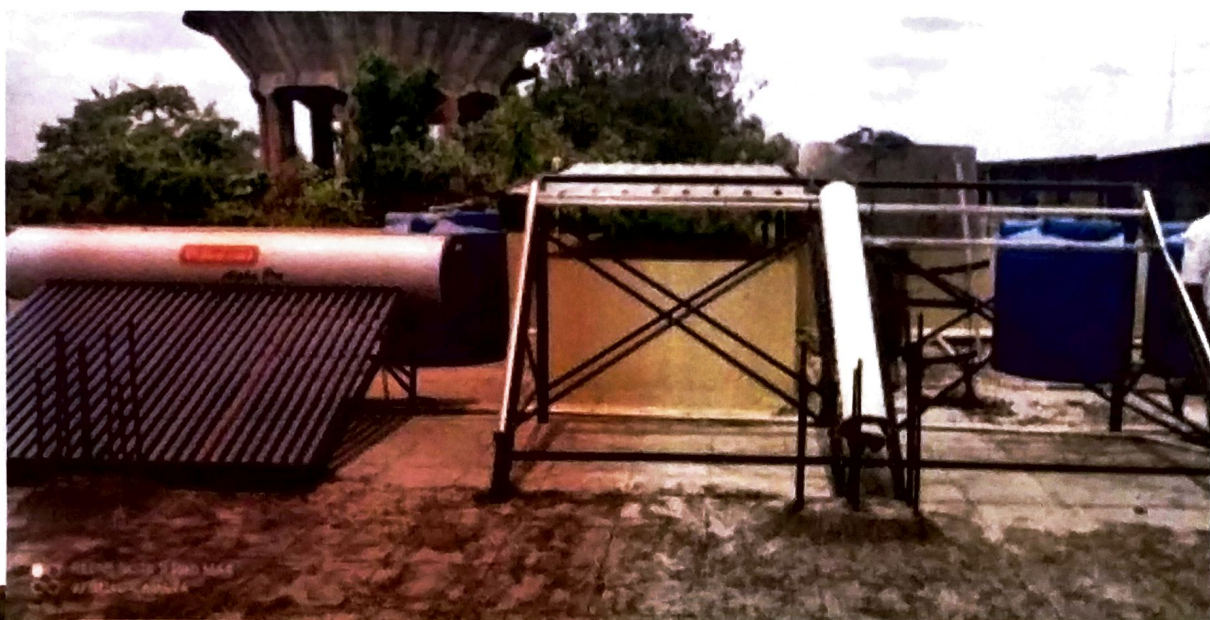


ZEBRA
Zoology Education By Research Activity

World Wildlife Week

October 1-7

Celebration of Wildlife conservation week: ZEBRA Cell, Department of Zoology celebrated World Wildlife Week- 2020 by organizing various activities like - Article Writing Competition on the topic "Wonderful World of Butterflies", Virtual Essay Competition on the topic: "Impact of Covid-19 Pandemic on Wild-life and Environment", Documentary show on Tiger, Tiger Poaching Tiger Census, Conservation of Tigers in India, Mobile Photography Competition on theme ' Wildlife and Nature', Quiz Competition on theme 'Wildlife Conservation'



Solar water installed at Girls Hostel reduced electrical energy consumption at a great extent.

Various environment protection initiative taken by the college.

The Maharashtra Education Society's
Shri R. L. T. College of Science, Arts &
D.C. Women's Hostel

Biogas from Kitchen and Food Waste

Aim: The aim of the college is to solve the problem of waste disposal from kitchen and dining of girl's hostel as well as garbage of college campus and to generate energy from waste.

Introduction: A biodegradable waste fed biogas plant in college campus is a best and ecofriendly technology for the treatment of kitchen and dining waste. It also becomes an effective tool to serve the fuel supply needs of the hostel.

OBJECTIVE:

1. To solve the problem of waste disposal.
2. To generate energy from waste.
3. To reduce the cost of electricity.
4. To reduce the pollution.
5. To reduce the garbage.
6. To reduce the cost of waste disposal.
7. To reduce the cost of electricity.
8. To reduce the pollution.
9. To reduce the garbage.
10. To reduce the cost of waste disposal.

PROCEDURE:

1. In the first step the fermentable biomass (e.g. Biodegradable waste) is added to the digester.
2. In the second stage, anaerobic bacteria (e.g. Acetivibrio) decompose the fermentable biomass to produce methane gas.
3. When the gas has been produced in sufficient quantities, anaerobic bacteria convert it into methane. This last step is called methane production.
4. The methane gas is collected in a gas holder and used for cooking.
5. The product of fermentation is the concentrated biogas.

1. Hydrolysis **2. Fermentation** **3. Acetogenesis** **4. Methanogenesis**

Organic waste → Biogas (Methane, CO₂, H₂)

Component	Concentration
Carbon dioxide	15-25 Vol. %
Methane	55-75 Vol. %
Hydrogen	1-2 Vol. %
Ammonia	1-2 Vol. %
Hydrogen sulfide	1-2 Vol. %

ADVANTAGES OF BIOGAS

- Reducing water and electricity consumption
- Improving soil and structure of farms
- Environmentally friendly
- Production of high quality fertilizers
- Saving cooking time
- Saving money
- Improving hygiene conditions

Other Applications of BIOGAS in various fields

- Mushroom cultivation
- Poultry
- Fish culture

Sandeep Ashok Toshniwal

The practice is under the microbiology department and started for the girls Hostel in the premises. The kitchen waste and Canteen waste, remaining food, perished food products are used in the biogas plant. The energy generated is used in the girls hostel.

ORGANIC-COMPOSTING

Best Waste

Improves soil Structure
Improves Drainage
Reduce Soil Erosion
Improves Soil Fertility
Improves Water Holding Capacity
Reduces Pests & Diseases on plants

Project By : Department of Microbiology

VERMI COMPOSTING

Shri. R. L. T. College of Science

Vermi- Composting Practice is done in the premises since few years. The waste and left-over plant garbage, nirmalya in Ganesha Festival, and all the dry waste as well wet waste is used for composting.

Licence for possessions of certain chemicals.



FORM B & II

Rule 1 (1) (a)

Licence No. _____

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 (No. XXV of 1949) and the rules, regulations and orders made thereunder, to Yashwantrao Chavan College of Arts, Science and Commerce, Yashwantrao Chavan Road, Yashwantrao Chavan, Mumbai-400 004 (hereinafter called "the licensee") the payment of a fee of Rs. 1000/- (Rupees one thousand) during the period from 1-1-1980 to 31-12-1980 at his premises situated at Mumbai (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 authorized in that behalf.
(2) The licensee shall not buy spirit in any one month exceeding 60 litres in the aggregate.
Rectified Spirit & Absolute Alcohol
- The licensee shall not have in his possession more than 60 litres of spirit at any one time.
- The licensee shall keep all the spirit received by him in a place in the licensed premises approved by the local inspectors 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 authorized 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, pagged 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 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 the licensee shall at all times be open to inspection by the Collector, or any Assistant 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 27 of the Bombay Prohibition Act, 1949, who may be deputed or authorized by the Collector or the Superintendent of Prohibition and Excise in that behalf.
- The accounts, requisitions and transport passes referred to in condition 5 and the licensee shall be preserved by the licensee during the whole of the period of this licence.

Issued this _____ day of _____ 1980



Collector of _____

The provisions of this licence shall be read and shall be clearly stated here. In the case of use for industrial purposes the spirit should be kept in a safe.



Licence for possessions of certain chemicals.

अनुज्ञापकी क्र. 99/2019-20
 मुलनीकरण शुल्क रु. 500/- इंचलन क्र. 0116/2398
 दिनांक 01/04/2019 मुताव कुल कालन पुर्वीच्य
 शर्तीवर या अनुज्ञापकीचे दि. 01/04/2019 ते
 दि. 31/03/2022 पर्यंत मुलनीकरण करण्यांत येत आहे.
 दि..... जिल्हाधिकारी, अकोला
 कारिता



अनुज्ञापकी क्र. 11/2020-21
 मुलनीकरण शुल्क रु. 400/- इंचलन क्र. 111/55520/2019
 दिनांक 16/3/2020 मुताव कुल कालन पुर्वीच्य
 शर्तीवर या अनुज्ञापकीचे दि. 01/04/2020 ते
 दि. 31/03/2021 पर्यंत मुलनीकरण करण्यांत येत आहे.
 दि..... जिल्हाधिकारी, अकोला
 कारिता

अनुज्ञापकी क्र. 11/2021-22
 मुलनीकरण शुल्क रु. 425/- इंचलन क्र. 1283620/2021
 दिनांक 24/03/2021 मुताव कुल कालन पुर्वीच्य
 शर्तीवर या अनुज्ञापकीचे दि. 01/04/2021 ते
 दि. 31/03/2022 पर्यंत मुलनीकरण करण्यांत येत आहे.
 दि..... जिल्हाधिकारी, अकोला
 कारिता

जिल्हाधिकारी, अकोला



An effort to combat near-road air & noise pollution at Shri R.L.T. College of Science campus in Akola

EFEC



The walls are bombarded with noise and vibrations. These are experienced inside the college campus. By creating a vegetative barrier the air & noise pollution can be controlled to a great extent.

Acoustic louvers can help reduce amount of noise entering classrooms.

Proposed trees for creating a barrier for air & noise pollution must not grow till the height of electrical line. The trees are to be selected as per sight specific requirements.

Numerous health studies have linked adverse health effects with spending significant amounts of time near high-traffic roads with elevated air pollution levels of particulate matter, gaseous pollutants, air toxins and noise emitted by nearby automobile vehicle activity. EFEC (Environment & Forest Education Center) has noticed & studied the vehicular pollution on the road adjacent to the college campus. To find out real numbers EFEC recorded air and noise pollution level inside the campus. The major air & noise pollution caused is due to vehicular noise & air pollution from the road passing just outside the college campus. Every day more than 2k vehicles pass by the college boundary and all the air & noise pollution is scattered/dispersed in and around it naturally. The college campus is bombarded with irritating sounds of Honking. Relentless horn use is a major source of noise pollution. More than a nuisance, it is a health hazard to everyone in the vicinity. When the noise level in classrooms of college was recorded, the results were the same as guessed. It showed higher decibels (71 dB A) by using noise dosimeters and it is surely a matter of concern for everyone to find the remedy to this issue. Few steps are suggested to reduce the adverse effect of air & noise pollution. Being eco-friendly in the environment, I always suggest remedies that are easy to process and need very little infrastructure. I rely on trees more than man made furniture. Remedy: Plant the noise buffer close to the noise source i.e. road adjacent to passing by heavy traffic road. Plant trees/shrubs as close together as the species will allow. I suggest using plants with dense foliage. A diverse tree species, with a range of foliage shapes and sizes within the noise buffer, may also improve noise reduction. Evergreen varieties that retain their leaves will give better year-round protection. The suggested site for planting trees does not permit growing after a certain height due to electrical lines passing by the same perimeter wall of the campus. The suggested design conditions include height, thickness, coverage, porosity/density, and species characteristics that may reduce noise pollution and at the same time promote improved air quality. Trees planted at the outskirts of the campus add the aesthetic view of the campus in the city.

Sucking in carbon dioxide and replacing it with oxygen is not the only contribution of plants. Many tree species are savour in a polluted city, clearing the air of harmful sulphur dioxide, carbon monoxide and particulate matter.

The boundary wall of the campus is acting as a sound wall. The sound walls is partially ineffective because there are gaps in the wall that allow pollutants and noise to pass through.

The trees selected for abatement of noise & air pollution:

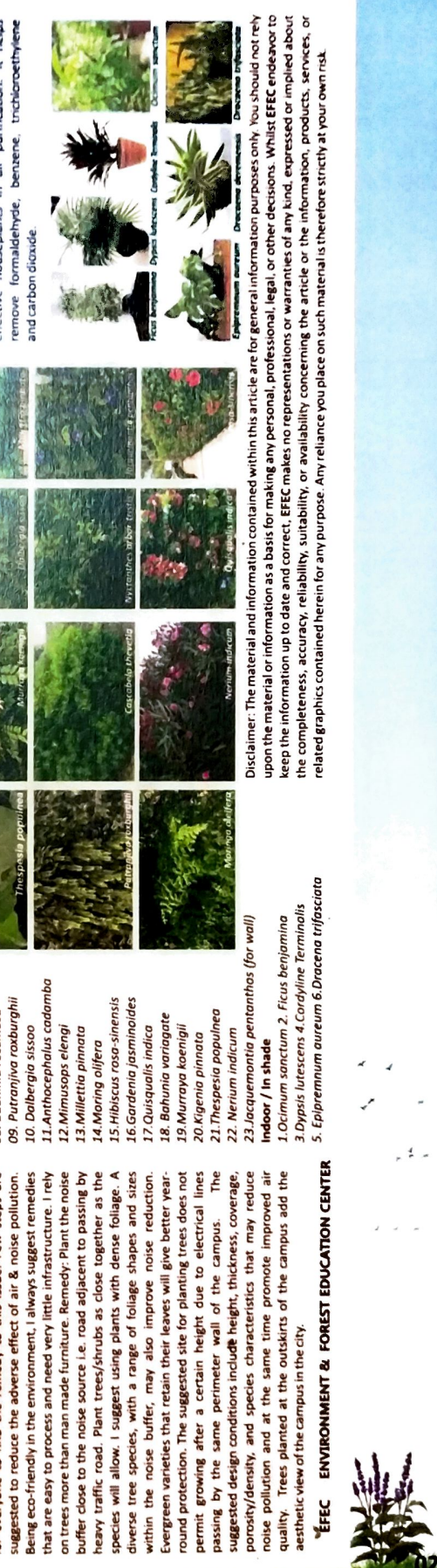
01. Tecoma stans,
02. Nyctanthes arbor-tristis
03. Thespesia populnea
04. Casabela thevetia
05. Sapindus mukorossi
06. Cordia moka
07. Cordia sebestena
08. Bauhinia racemosa
09. Putranjiva roxburghii
10. Dalbergia sissoo
11. Anthocephalus cadamba
12. Mimusaops elengi
13. Milletia pinnata
14. Moring oilfera
15. Hibiscus rosa-sinensis
16. Gardenia jasminoides
17. Quisqualis indica
18. Bauhinia variegata
19. Murraya koenigii
20. Kigelia pinnata
21. Thespesia populnea
22. Nerium indicum
23. Jacquemontia pentanthes (for wall)

Indoor plants reduce VOCs (volatile organic compounds) and are an easy and inexpensive way to improve our indoor environments. Plants offer multiple benefits. They purify our air by reducing various pollutants and reducing carbon dioxide levels. Dracaena and many other indoor plants are the most effective houseplants in air purification. It helps remove formaldehyde, benzene, trichloroethylene and carbon dioxide.

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Indoor / in shade

1. Ocimum sanctum 2. Ficus benjamina
3. Dysipis latesens 4. Corajilne Terminalis
5. Epipremnum aureum 6. Dracena trifasciata





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 2020 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 2020. The necessary information and crucial data collection were completed and a draft report was complete in April 2021. The review meeting was organized in May 2021. The special meeting was called upon in June 2021 to approve, accept, and release Internal Green & Environment Audit Report for the year 2020-2021.

A conclusion can be made from the Internal Green & Environment Audit Report for the year 2020-2021 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 2020-2021 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