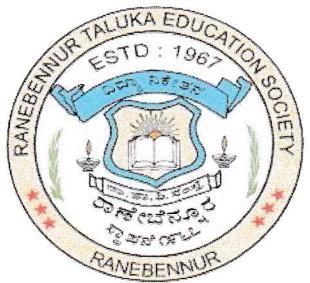


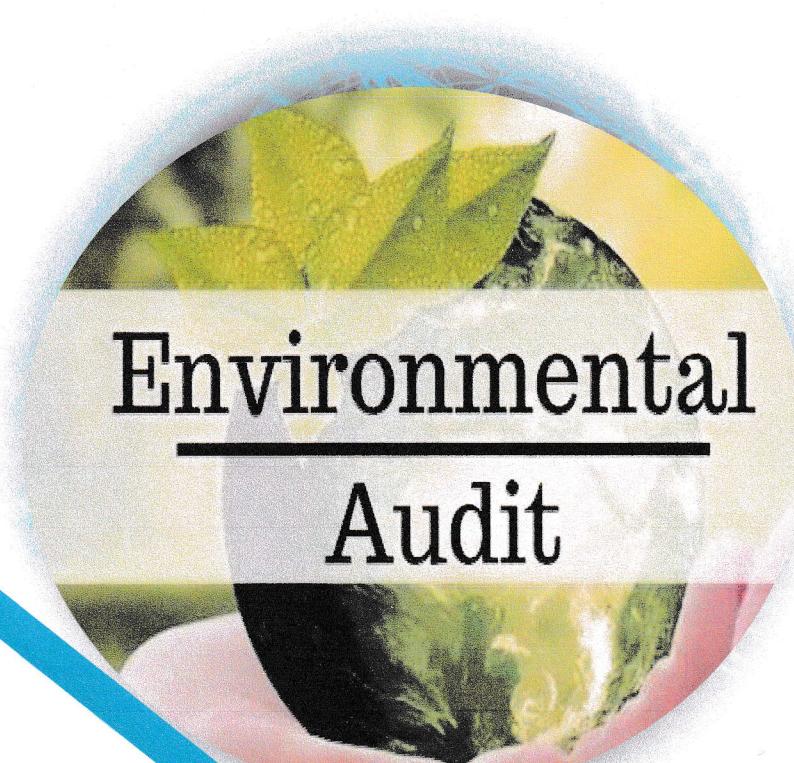
**R.T.E. SOCIETY'S
ARTS, SCIENCE AND COMMERCE
DEGREE COLLEGE, RANEBENNUR**

Innovators, Knowledge & Leadership



GREEN AUDIT

2021-22



Environmental
Audit

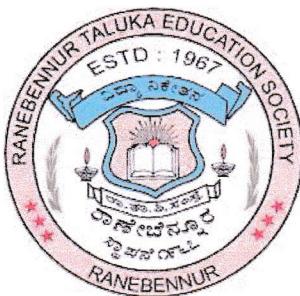
IQAC

IQAC

GREEN AUDIT REPORT

2021-22

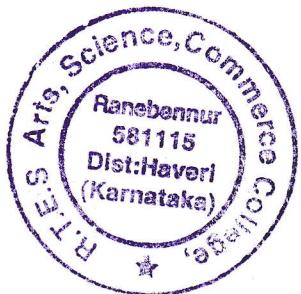
**R. T. E. SOCIETY'S
ARTS, SCIENCE AND COMMERCE DEGREE
COLLEGE, RANEBENNUR-581115**



Dr. Deepa
PRINCIPAL
R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANEBENNUR

Green Audit Committee

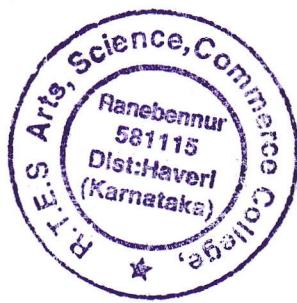
Sl. No.	Name	Designation
1.	Sri. C.A. Harihar Principal	Chairman
2.	Dr. Madhukumar R IQAC Co-ordinator	Member
3.	Dr. Saraswati H Bammanal Co-ordinator of Criterion VII	Member
4.	Sri. T. G. Malammanavar Head, Department of Botany	Member
5.	Sri. B. K. Katenahalli Head, Department of Zoology	Member
6.	Sri. C.N. Pujara Head, Department of Geography	Member
7.	Sri. B. I. Koli Head, Department of Chemistry	Member
8.	Ms. Pamavati J T III SEM, B.Sc	Student Member
9.	Ms. Boomika III SEM, B.Sc	Student Member
10	Sri. M.S. Gudigere Department of Zoology, G H College, Haveri	External Member
11	Sri. T. G. Malammanavar Head, Department of Botany	Internal Auditor
12	Dr. Vinayaka K.S Assistant Professor and HOD of Botany SVS College, Bantwal	External Auditor



Attested By
Principal
 R.T.E.S. Society's Arts, Science &
 Commerce Degree College, RANE BENNUR

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Attested By
Chellap
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR

Executive Summary

A nation's growth starts from its educational institutions, where the ecology is through as a prime factor of development associate with environment. A clean and healthy environment aids effective learning and provides a conducive learning environment. Eco-friendly campus is a concept implemented in many educational institutions all over the world to make them sustainable because of their mass resource utilization and waste discharge into environment. Waste minimization plans for the educational institutions are now mandatory to maintain the cleanliness of the campus. To find out the environmental performance of the educational institutions and to analyse the possible solutions for converting the educational campus as eco-campus the conduction of green auditing of institution is essential. To preserve the environment within the campus, various viewpoints are applied by several educational institutions to solve their environmental problems such as promotion of the energy savings by installing more efficient electronics and electrical equipment, proper segregation and recycle of waste, water use reduction, water harvesting and conservation etc. The activities pursued by colleges can also create a variety of adverse environmental impacts. There is a need for the educational institutions to sensitize the students with regard to the present and possible future environmental and ecological problems that we could encounter if we don't learn from our mistakes. Smart use of the available resources and minimizing levels of waste is the need of the hour.

The first step towards this goal is recognising the need for conducting an environmental and green audit that helps in assessing the environmental performance of our Institution so that we know where we stand and where we need to go and how to get there. The green auditing process has been a part of this effort to understand how to achieve a sustainable development with limited resources. The audit mainly tries to focus on certain parameters like water consumption, energy consumption, waste management, green campus initiatives, and soil and water quality in the campus. It is imperative for the college to assess our own contributions towards a sustainable eco system. Questionnaires were prepared for conducting the survey of the above mentioned parameters and data collected was analysed and tabulated. Report was prepared with appropriate observations and recommendations directed towards management, staff and students so that issues related to the environment can be addressed in a timely and appropriate way.

INTRODUCTION



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PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANE BENNUR

The college is situated at tranquil outskirt of Ranebennur, which is the gateway of North Karnataka. Our's is only higher education institution in the part of Ranebennur. Higher education for rural students was a dream back in the year 1965. Its spread over 27.13 acres of lush green pollution free atmosphere. One is sure to be struck by the aesthetic elegance of its buildings, spacious lawns, sports grounds and lush green environment so conducive for teaching-learning process. Keeping this in view, Management started higher education on Arts and Science Programme in this part of Ranebennur with the sincere effort of our esteemed Management of Ranebennur Taluka Education Society under the Presidentship of Late Shri. V.K. Sawkar, a veteran social worker.

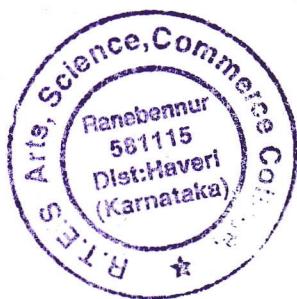
Based on the job market trend and demand of surrounding villagers, management started Commerce programme in the year 1976. The enrolment of the gradually increased from time to time. The college has been recognized under 2(f) and 12(B) in 1982. With the support of financial assistance of UGC, college has augmented necessary infrastructural facilities and affiliated to Karnataka University Dharwad in addition to this, our management run B.Ed., Law, Public School, Highschool, Pre-University College.

1. About Green audit

Green audit is a process of systematic identification, qualification, recording, reporting and analysis of components of Floral and Faunal diversity within the campus. It aims to analyse green practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Green audit provides direction for improvement of the condition of environment. There are factors that have determined the growth of carrying out green audit.

1.1. About the college

The R.T.E.Society's Arts Science and Commerce Degree College was established in 1967. college is situated at tranquil outskirt of Ranebennur, which is the gateway of North Karnataka. Our's is only higher education institution in the part of Ranebennur. Keeping this in view, Management started higher education on Arts and Science Programme in this part of Ranebennur with the sincere effort of our esteemed Management of Ranebennur Taluka Education Society under the Presidentship of Late Shri. V.K. Sawkar, a veteran social worker. Based on the job market trend and demand of surrounding villagers, management started Commerce programme in the year 1976. The college has been recognized under 2(f) and 12(B) in 1982. With the support of financial



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PRINCIPAL
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assistance of UGC, college has augmented necessary infrastructural facilities. Affiliated to Karnataka University Dharwad.

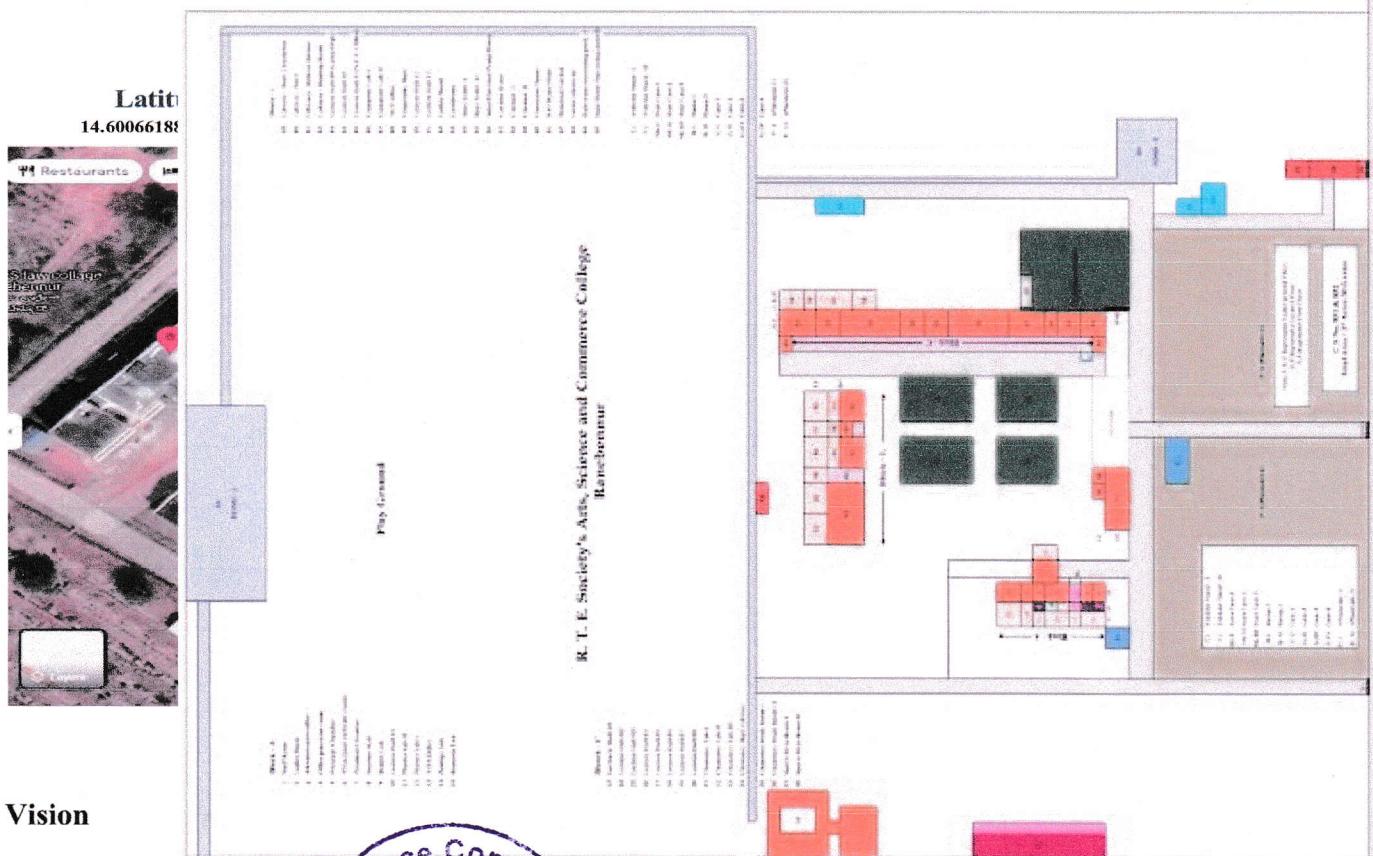
The college has also adapted the Green Campus system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance. The Green Campus has been active since last 30 years both as an assembly group of sub committee that actively promote the various activites. The college administration works on the several facets of Green Campus including water conservaton, Tree plantation, Wate Managemant, paperless work, Alternative Energy etc.

Location

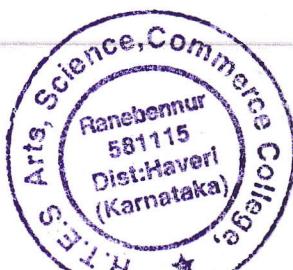
The RTES Arts Science and Commerce Degree college is situated at tranquil outskirt of Ranebennur, which is the gateway of North Karnataka. Our's is only higher education institution in the part of Ranebennur. Which is 40 KM away from the district head quatres and 5 km away from Hubli -Bangalore state Highway that lie across the Ranebennur town.

Campus MAP

R T E Society's



Vision



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Induct Social responsibility among the young minds and prepare them to become competent to face various challenges.

Mission

To enable all students to become socially responsive useful citizens besides acquiring the global skilled competencies and social values so as to achieve excellence.

Programmes offered by the college:

Sl. No.	Programmes
1.	B.A.
2.	B.Com
3.	B.Sc [PCM, PMCs and BZC]

Total strength of students, teachers and Non-Teaching staff:

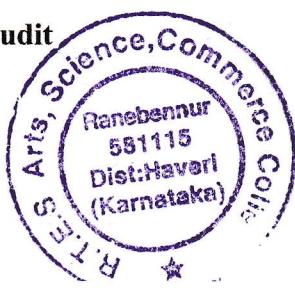
Sl. No.	Category	Number
1.	No. of Students	983
2.	No. of Teachers	44
3.	No. of Non-Teaching staff	10
4.	Total	1027

Physical Structure (area):

- College campus – **27.13 Acres (109791.21 sq. mt)**
- Built up area - **5700 Sq. mtrs.**

Staff Rooms	01
Laboratories	10
Seminar Hall	01
Academy Hall	01
Libraries	Library - 01, Department Libraries -05
Canteen	01

Objectives of Green Audit



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The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

- To examine the current practices which can impact the environment such as resource utilization, waste management, etc.
- To prepare an Environmental Statement Report on green practices followed by different departments, support services, and administration building.
- To set goals, vision, and mission for Green practices on the campus.
- To identify and analyze significant environmental issues.
- To establish and implement Environmental Management Plan in various departments.
- To assess for better performance in green practices and its valuation.

Areas earmarked for Green Auditing

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of an Institution. It is an important part of resource management and when carried out at regular interval can trigger high levels of changes and improvement in an institution. Eco- campus is one whose focus is on judicious use of water and energy, minimisation of waste generation and prudent disposal of the same and reduction of pollution levels

All the above parameters are assessed in this process of green auditing. The target areas earmarked for the green auditing are water, waste, energy, green campus and carbon footprint.

Auditing for Water Management

College has its own tube-well for meeting its water requirements for various purposes such as drinking, use in washrooms, canteen and gardening. Water is a source of life for all the organisms. Drinking water is freely available in some places while it is difficult to get potable water in some places. Depletion of the water table and contamination of ground water is rampant in urban areas which is very alarming, hence the necessity to examine the storage, distribution and usage of water in the college.

Auditing for Energy management



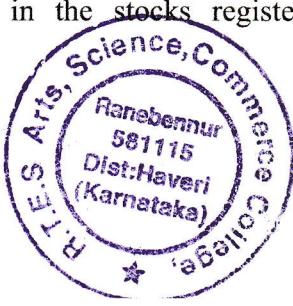
Conservation of energy is an important component of sustainability. Energy audit tries to track and record the levels of energy consumption. It also tries to explore the possibility of using an alternative source of energy which is environment friendly.

Auditing for Waste Management

In everyday life humans create lots of waste – solid or liquid, degradable or Non-Degradable, wet or dry. Handling, collecting and disposing of this waste without causing harm to the environment is a big challenge before mankind, for this waste can cause pollution becoming health hazards. Categorizing solid waste into bio-degradable, non-biodegradable and hazardous waste is a must. Bio-degradable waste like food waste, canteen waste etc can be converted into manure while non- biodegradable wastes like plastic; glass etc needs more careful disposal. Hazardous waste like chemicals, acid etc are most dangerous to the environment if not disposed scientifically. Special care needs to be taken while disposing such waste in the college. Auditing of waste management tries to quantify the levels of waste in the college and tries to identify the waste disposal system.

Whereas, plastic wastes are completely or strictly banned in the university campus. However, following provisions have been made:

- i. **Biodegradable:** There are two kinds of dustbins placed at different places/department/sections to collect the waste separately (blue for biodegradable and red for non-biodegradable). Thereafter, the biodegradable waste produced from various departments, sports ground or other areas is put into compost pits for making compost to use in manuring garden plants and seedling planted during planting season.
- ii. **Non-Biodegradable:** There is very low quantity of non-degradable waste in the campus as the university does not have staff quarters at present in the college premises, therefore, no household domestic waste is generated. However, rest of the non-degradable waste generated from places/department/sections of the college is collected in red dustbin and sent for the disposal through waste collection vehicle of local Municipal Corporation Ranebennur (CMC) Ranebennur.
- iii. **E-Waste:** Besides the above wastes there are another category of waste is E-waste which includes computers, laptops, pen drives, printers, hard discs, CD's and other solid waste, electrical & electronics equipments generated through different department/sections is disposed and managed by the ICT, maintenance and store department of the college and the details are properly maintain in the stocks register. Thereafter in every five year the concerned



~~Attested By~~
~~Chandrap~~
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR

departments categorize the useless items into the wastes and disposed through auction and buyback from the authorized buyers.

Auditing for Green Campus Management

Plants and trees are an essential part of an ecological system and urbanisation has led to trees being cut at an alarming rate. Trees can absorb large amounts of carbon dioxide and emit oxygen into the environment. Trees are good in a campus because of the large number of students that gather in the campus leading to huge quantities of carbon dioxide being released into the environment. Green audit is also an effort to identify and label the trees and their age in the campus.

The college is aware of the various environmental issues and the various green measures to be adopted in their houses. A course on Environmental Studies is compulsory for all under graduate students. Further, college conducts plantation drives in the campus during Environment Day, 15 August and during other important events in the college. Further, college has also adopted nearby villages for environmental awareness activities, health camps and other community programmes being conducted through their participation.

Auditing for Carbon Footprint

Humans are not the only cause of carbon dioxide. Fossil fuels also emit greenhouse gases like carbon dioxide, methane, nitrous oxide etc. Use of vehicles in the campus leads to emission of carbon dioxide and this audit tries to assess the modes of transport used by the students and staff to commute to and from the college.

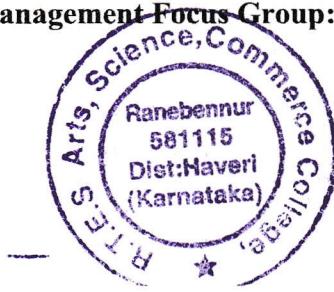
Methodology

The following methods were used for data collection and analysis:

Expert Consultation: Green audit of RTES Arts Science and Commerce Degree College Ranebennur was done by the team of internal experts under the supervision of Prof. T.G. Malammanavar, Assistant Professor and HOD in Botany. The audit is evaluated by external audit Dr. Vinayaka K.S., Bantwal

Focus groups: Green Audit Committee formulated four focus groups – one each for water management, waste management, energy management, and green campus and carbon footprints - for collecting the information. The following students and staff were a part of the focus groups.

Energy Management Focus Group:



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Sl. No.	Name	Designation
1.	Sri. H.G. Basavaraj Head, Department of Physics	Coordinator
2.	Dr. Madhukumar R Department of Physics	Member
3.	Ms. Rubina Banu Mulla Department of Chemistry	Member
4.	Sadanand J. M., III B.Sc	Student Member
5.	Amulya M Suranagi, III B.Sc	Student Member

Waste Management Focus Group:

Sl. No.	Name	Designation
1.	Sri. Vimalakar Head, Department of Computer Science	Coordinator
2.	Sri. Shivakumar Benni Department of Sociology	Member
3.	Ms.Rooja Department of Chemistry	Member
4.	Mr. Nandish M. K, III SEM B.Sc	Student Member
5.	Mr. Prakash Bannihatti, III SEM, B.Sc	Student Member

Green Campus Focus Group:

Sl. No.	Name	Designation
1.	Sri. T.G. Malammanavar Head, Department of Botany	Coordinator
2.	Sri. Lingaraj Hebbal Lecture, Department of Botany	Member
3.	Ms. Sudha H Lecture, Department of Botany	Member
4.	Soubhagya Lakshmi H. C, III B.Sc	Student Member
5.	Pooja B Kaykad, III B.Sc	Student Member

Onsite Observation and Data collection through Survey Forms:

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PRINCIPAL
 R.T.E.S. Society's Arts, Science & Commerce Degree College, RANE BENNUR

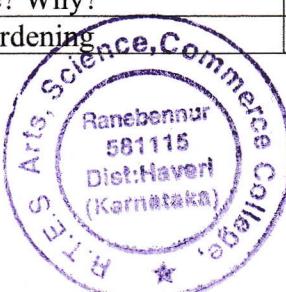
Each focus group armed with the concerned areas visited the relevant departments and other places in the campus for collecting data relating to the categorised parameters. Student volunteers were taken on in assisting wherever possible. Once the data was gathered, it was turned over to the committee for analysis and tabulation purposes. The data gathered was verified and authenticated by the external auditor of the green audit committee. The external auditor did a detailed study of the green audit report and physically verified certain tangible components in the report. The suggestions and recommendations offered by them have been incorporated at the end of the report and will form the basis for future policies and planning for initiatives for sustainable ecosystem in the campus. Various activities of the college have an effect on the environment. A range of remedies and preventive measures are adopted by the college to reduce the environmental impact. The total population of the campus is **2400** with **182** numbers of working days in the academic year 2021-22.

Table: Population of campus in academic year 2021-22

Sl. No.	Year	Month	Number
1	2021	August	100
2		September	80
3		October	120
4		November	70
5		December	50
6	2022	January	550
7		February	600
8		March	675
9		April	710
10		May	700
11		June	515
12		July	600
Total			4770

1. WATER MANAGEMENT:

Sl. No.	Parameters	Response
1	Source of Water	Corporation Water supply and Borewell
2	No. of Motors used	02
3	Horse power of motor	5 HP
4	Total depth of Borewell	300 ft
5	Water level	100 ft
6	Number of water tanks	03
7	Capacity of tank	1000 Lit
8	Quantity of water pumped every day	5000 Litres/day
9	Water Purification Unit	05 – 1000 Lit
10	Any water wastage? Why?	No
11	Water usage for gardening	2000 Lit/day



*Attested By
A. Polappa*
PRINCIPAL
R.T.E.S.Society's Arts Science &
Commerce Degree College, RANBENNUR

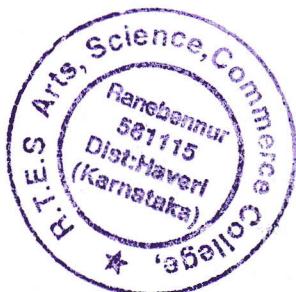
12	Whether waste water from Labs mixed with ground water	No
13	Any treatment for Lab water	Triple dilution before flushing down the drain
14	Whether any green chemistry method practiced in labs	<ul style="list-style-type: none"> Instead of buying distilled water, Rain water is collected and used in the Chemistry labs Reuse of chemicals
15	No. of water coolers	Nil
16	Any leaky taps	Nil
17	Any water management plan used?	Under Consideration
18	Any water saving techniques followed?	Yes
19	Are there any signs reminding people to turn off the taps?	Yes

College population in this academic year

Year	Month	Number of students and staff	No. of working days	Water consumption (KLD)
2021	August	24+817	12	50
	September	24+817	26	130
	October	24+817	20	100
	November	24+817	20	100
	December	24+817	25	125
2022	January	24	03	125
	February	24	00	15
	March	25	00	00
	April	25	00	00
	May	24	00	00
	June	24	00	00
	July	24	15	125
Total			156	780

Water consumption on full strength – 5 KLD

Water quality testing report:



Attested By
Chandrap
PRINCIPAL
 R.T.E.S. Society's Arts, Science & Commerce Degree College, RANE BENNUR



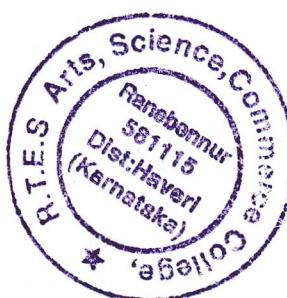
RURAL DRINKING WATER & SANITATION DEPARTMENT, GoK
District: Haveri SubDivision: Ranebennur laboratory

TEST REPORT					
Taluk : Ranebennur, District : Haveri GP : Village : Location : RTE Society's Arts, Science & Commerce College Ranebennur				Report date: 13/02/23	
				Sample code: RAN23FEB00053	
				Date of Sample collection: 03/02/23	
				Analysis start date: 03/02/23	
				Analysis completion date: 04/02/23	
				Sample collection protocol: IS 3025(Part-1)	
Sample Particulars: Filter water Sample				Sample quantity:1000ml	
Sl.No	Test	Results	Acceptable Limit IS 10500 : 2012 RA:2018	Permissible Limit IS 10500 : 2012 RA:2018	Protocol
Description:					
1.	pH Value @Temp°C	7.83	6.5 – 8.5	No relaxation	IS 3025 (Part-11) : 1983
2.	Specific Conductance, $\mu\text{S}/\text{cm}$ @Temp°C	316	—	—	IS 3025 (Part-14) : 1984
3.	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5 & 6):2018
4.	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part-8):1983
5.	Colour, Hazen Units	5	5	15	IS 3025 (Part-4) :1983
6.	Turbidity, NTU	0.0	1	5	IS 3025 (Part-10) : 1984
7.	Total Dissolved Solids@ 105°C, mg/l	180	500	2000	IS 3025 (Part-16) : 1984
8.	Alkalinity as CaCO_3 , mg/l	120	200	600	IS 3025 (Part-23) : 1986
9.	Total Hardness as CaCO_3 , mg/l	120.10	200	600	IS 3025 (Part-21) : 2009
10.	Calcium as Ca, mg/l	32.05	75	200	IS 3025 (Part-40) : 1991
11.	Magnesium as Mg, mg/l	9.72	30	100	IS 3025 (Part-46) : 1994
12.	Chloride as Cl, mg/l	103.96	250	1000	IS 3025 (Part-32) : 1988
13.	Sulphate as SO_4 , mg/l	1.4	200	400	IS 3025 (Part-24) : 1986
14.	Fluoride as F, mg/l	0.236	1	1.5	APHA 23 rd Edition
15.	Nitrate as NO_3 , mg/l	5.98	45	No relaxation	APHA 23 rd Edition
16.	Iron as Fe, mg/l	0.010	1	No relaxation	IS 3025 (Part-53) : 2003
Remarks: Remarks: The given sample Doesn't/Conforms to the Acceptable/Permissible Limit of IS 10500 : 2012 RA:2018 Drinking Water Specification for The above tested parameter only.					
Analysed by: Analyst				Verified by: Assistant Executive Engineer	
					RDWSD/WQMSP/TeR/01

Note:

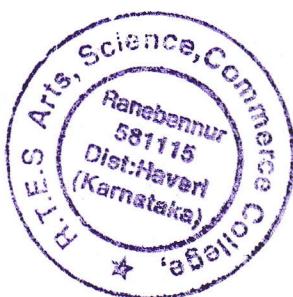
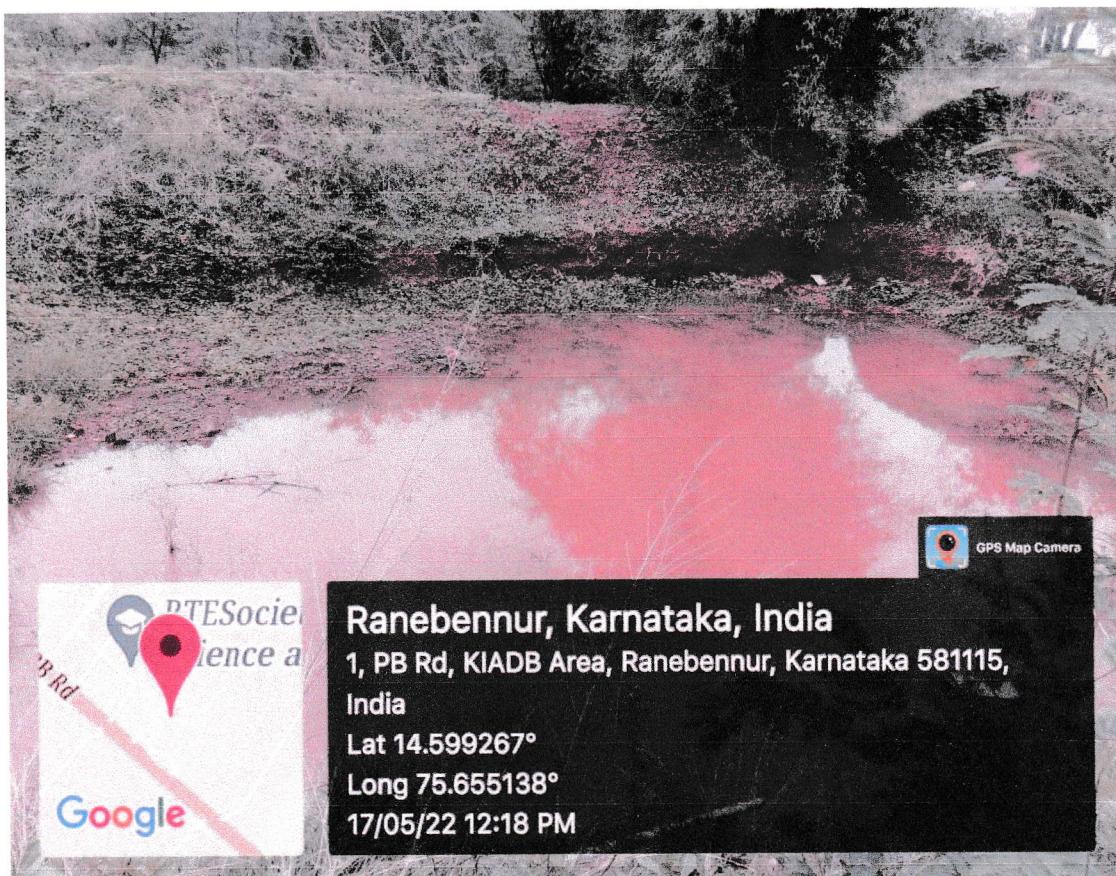
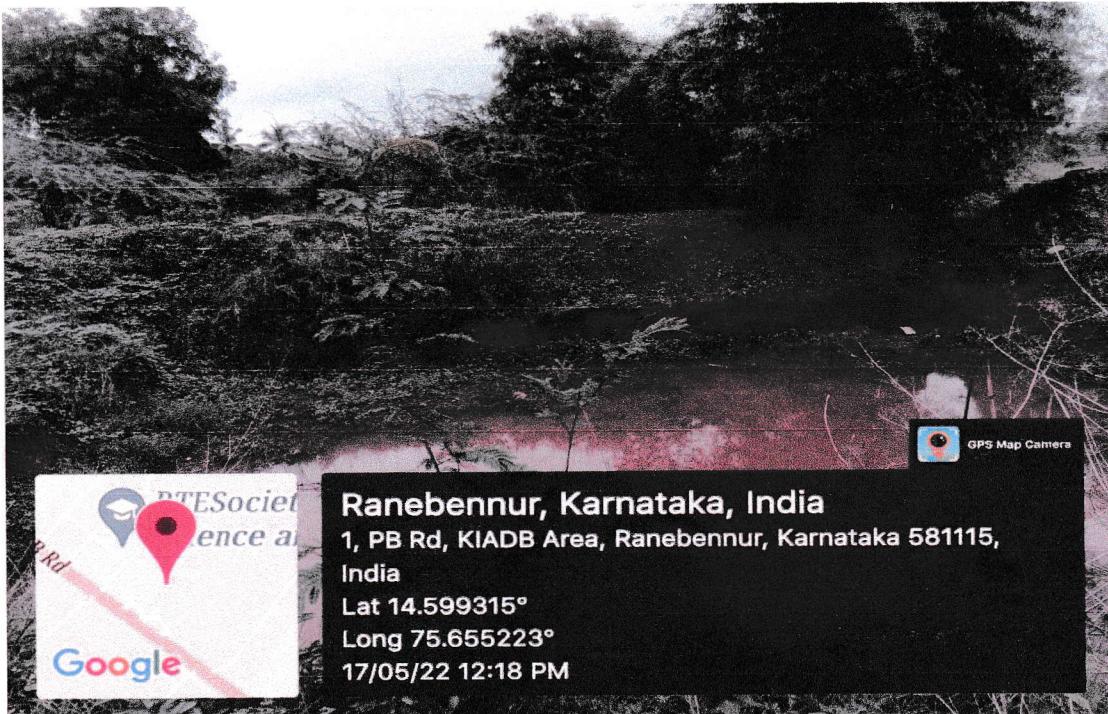
- 1) The above results relate only to the sample tested.
- 2) The report shall not be reproduced except in full without the prior approval of the Quality Manager.
- 3) Traceability: Traceability of measurements is established using CRMs traceable to National/International standards.
- 4) Samples will be discarded after 15 days from the date of report generation.
- 5) Decision rule is applicable as per the procedure mentioned in RDWSD/WQMSP/DR-01.

Page 2 of 2



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PRINCIPAL
R.T.E.S.Society's Arts, Science & Commerce Degree College, RANEBENNUR

Water harvesting and conservation methods:

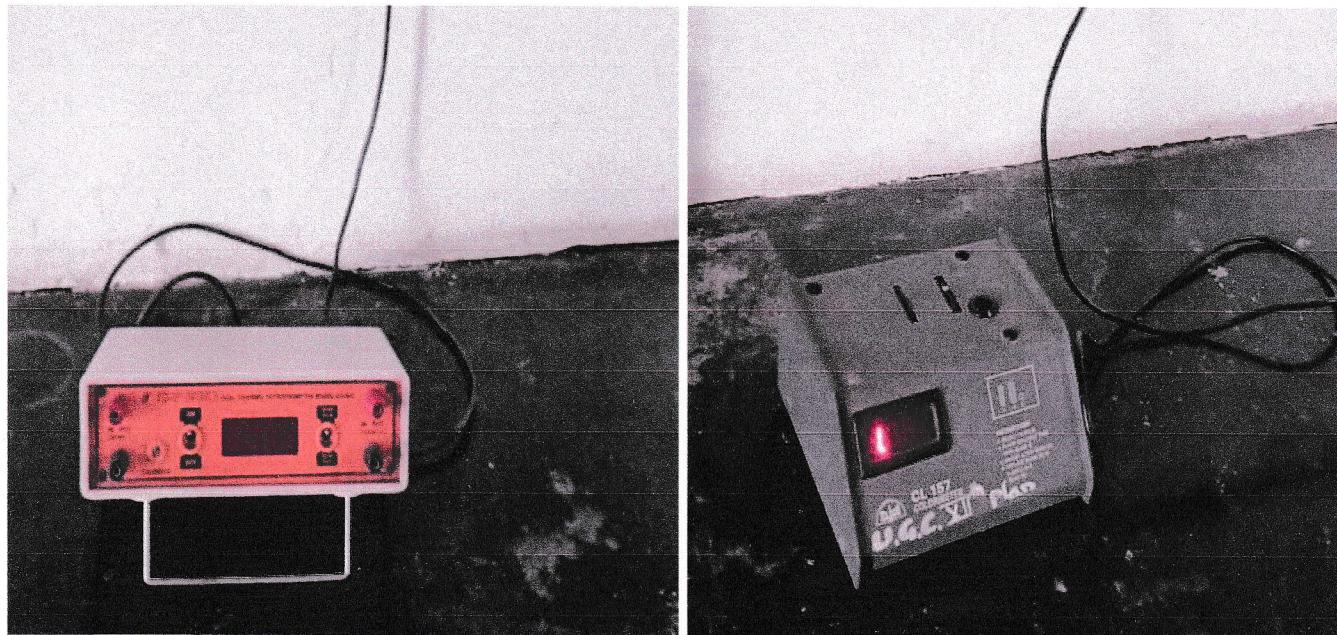


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R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR

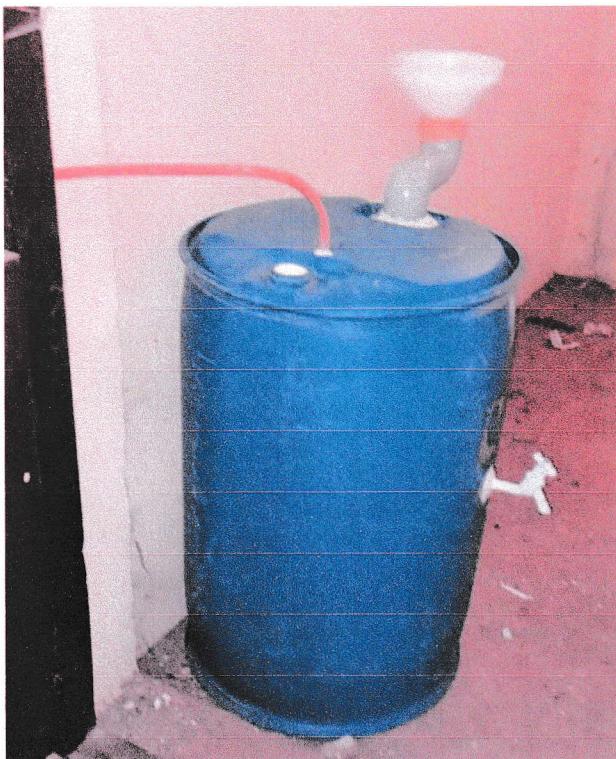
ENERGY AUDIT:

Sl. No	Electrical Appliances/instruments	Total No.	Power (W)	Total power (kW)	Operation hour per day	No of days in a month	Total consumption (kW)
1	Amplifier	03	6	0.006	0.1	1.5	0.003
2	CCTV Camera	42	3	0.126	24	30	90.72
3	LED Bulbs	53	221	0.716	1.5	25	4.8125
4	Speakers	05	24	0.056	0.1	15	0.084
5	CFL Bulbs	70	21	0.72	0.5	25	4.5
6	LED Tube light	22	45	0.99	0.25	25	24.743
7	Exhaust Fan	1	32	0.32	0.25	25	0.2
8	Tube lights	33	40	1.32	0.25	25	8.25
9	Laptops	03	50	0.015	0.25	25	0.093
10	Printers	10	60	6	0.25	25	3.75
11	Fans	59	116	3.476	0.50	25	21.725
12	Refrigerator	03	60	0.18	06	25	27
13	Desktop Computers	50	80	4.0	0.5	25	50
14	Projector	9	280	2.52	1	20	50.4
15	Photocopy Machine	1	60	0.08	6	25	12
TOTAL							298.280 Units

PH Meter



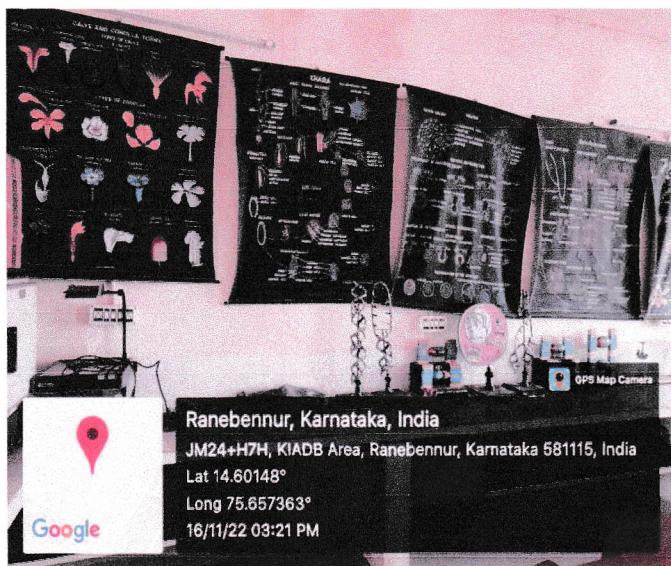
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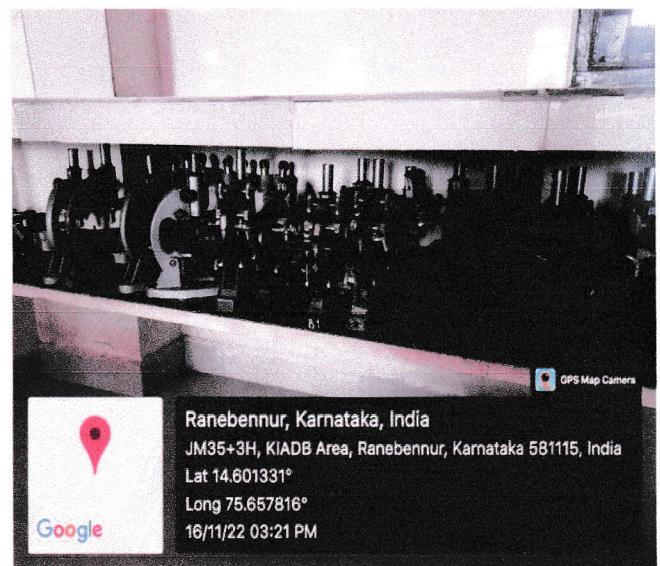
Gobbar Gas



RO Drinkung Water Filter



Botany Lab



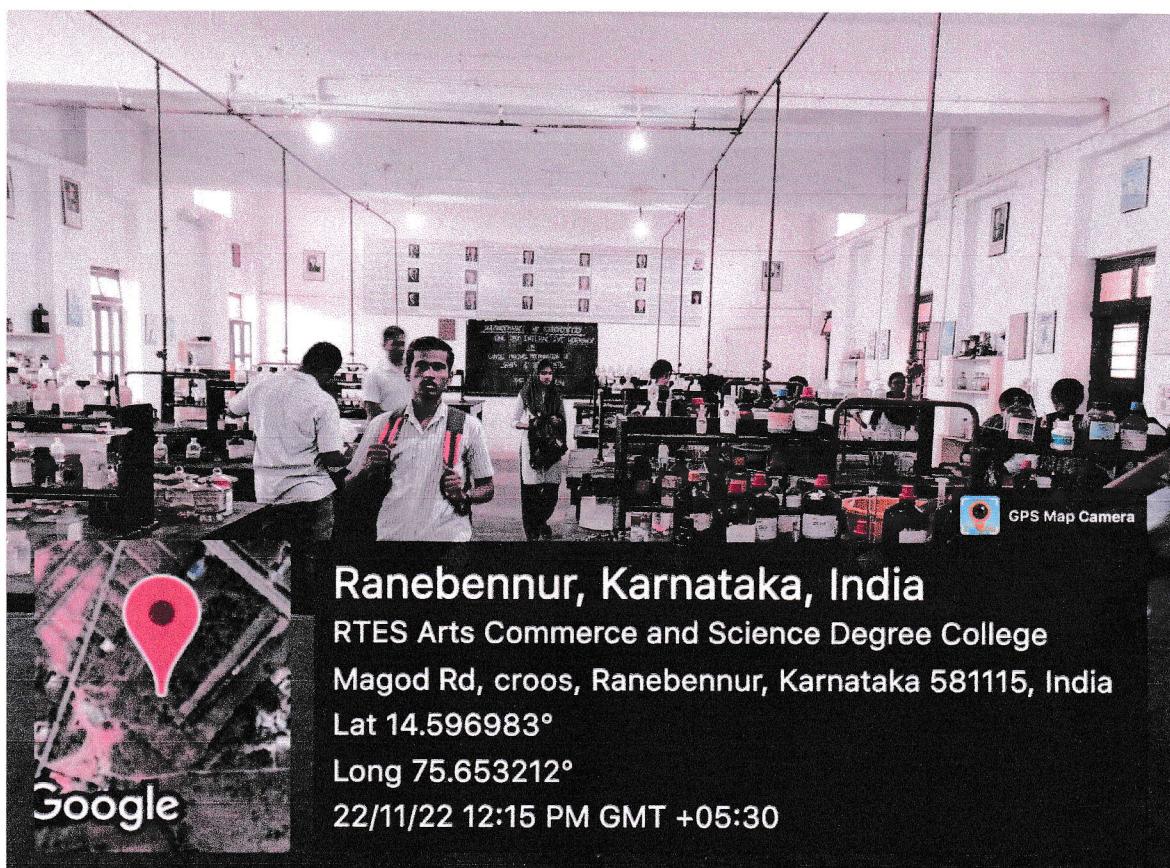
Microscopy facility for analysis



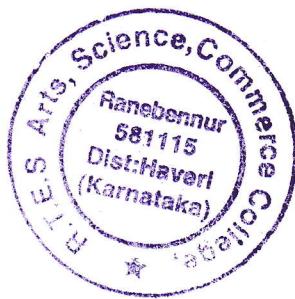
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Shobha
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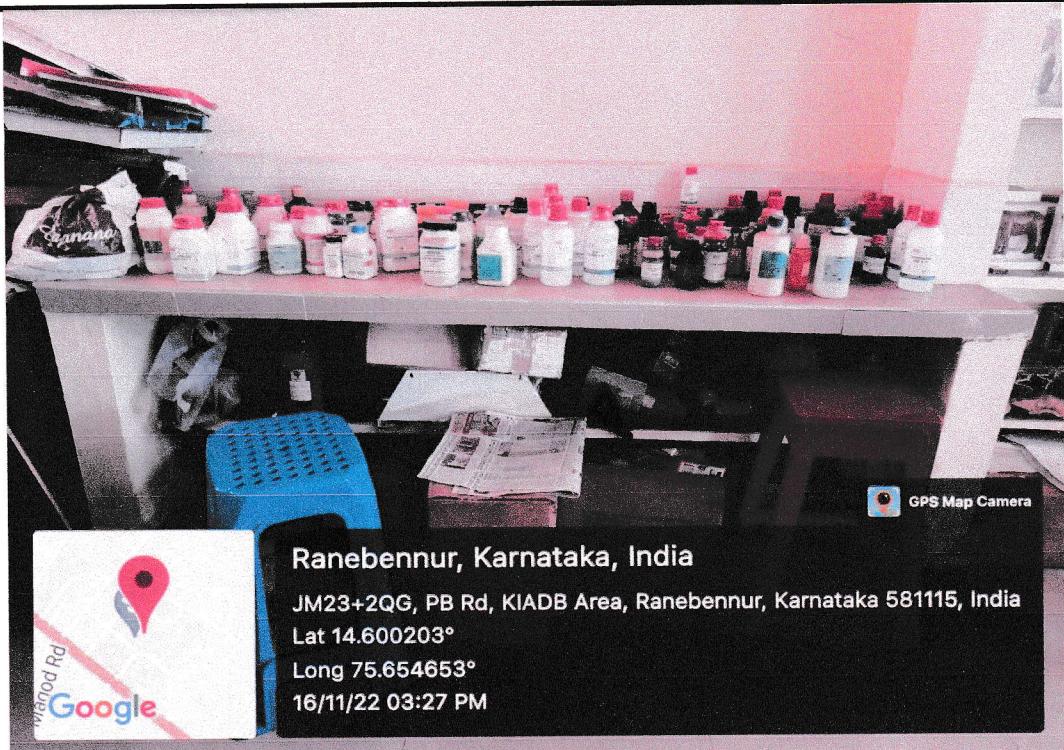
Chemistry Lab-LED Bulb



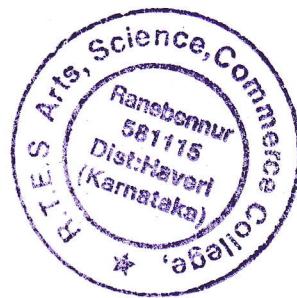
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College
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~~Hole~~
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Egg Ovean Incubators



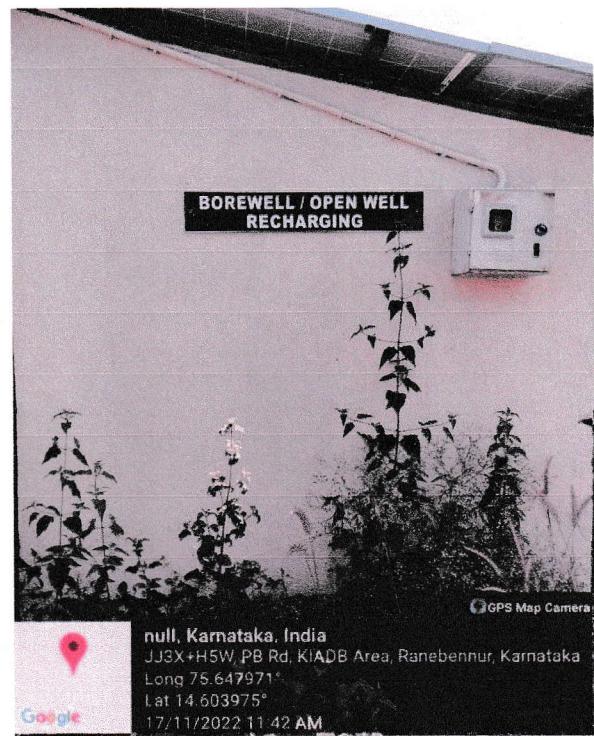
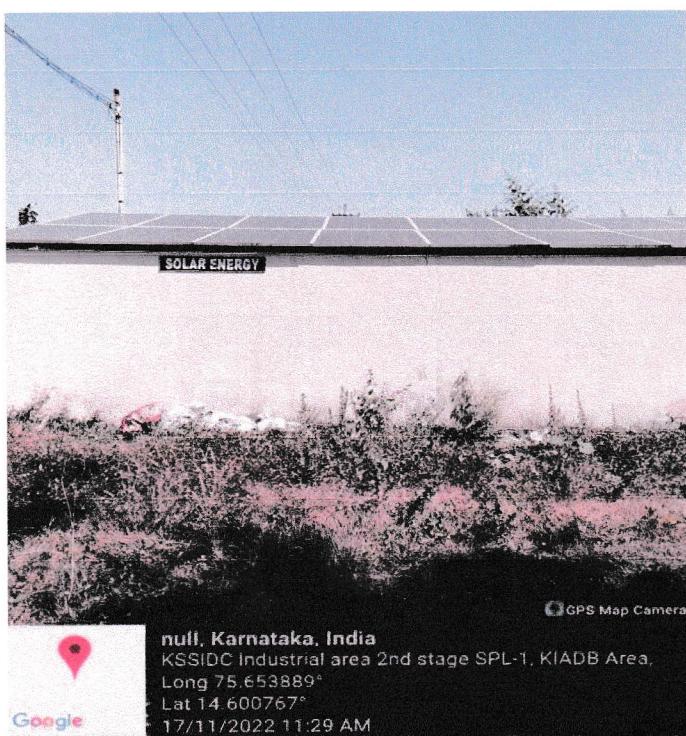
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Heena
PRINCIPAL
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Commerce Degree College, RANEBENNUR

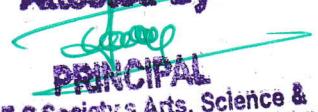
Solar Energy:

College is using Electrical & Electronics equipment which saves energy. LED Bulbs/ Tube-light. college has always been effortful in making use of renewable energy resources. The average electricity consumption of the college per month is approximately **12840.38units**. For the purpose, college has already installed a grid connected solar power plant of **110** Kw. It is expected that college will produce approximately **350 to 450** units of electricity per day which will be equivalent to **70 %** of energy consumption of the college. This is the step forward for energy conservation and will definitely reduce the electricity consumption of the college and save the money for college.

Solar Energy has been effectively tapped by installing solar panel plant. This has helped the electricity costs to be reduced. The solar grid tied N Metering system has been installed at the college. The technical specifications of the system are:

- 8K WPN module
- 8KV S phase sting inverter
- MPPT charge converter
- PV Module support structure
- Stainless steel hardware switch gear



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WASTE MANAGEMENT:

- Total no. of students and staff: $860+43 = 903$
- Total no. of staff rooms: 01
- Total no. of laboratories: 10

The various types of waste generated and their mode of disposal is shown in Table

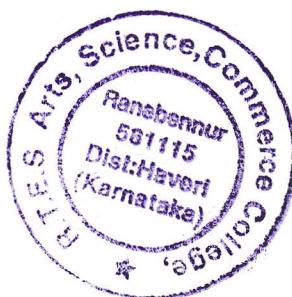
Table: Types of waste generated and mode of disposal

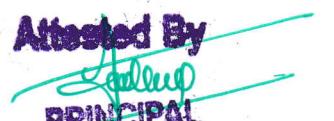
Types of waste	Whether generated	Particulars	Disposal Method
E-Waste	Yes	Electrical and Electronic parts	Given for recycling MoU with CMC Ranebennur
Hazardous waste	Yes	Chemical waste from laboratories	Triple dilution before flushing down the drain
Solid Waste	Yes	Paper waste, Plastic waste	Handing it over to Bantwal Municipal Corporation on a daily basis
Dry Leaves	Yes	From Garden	Vermicomposting
Canteen Waste	Yes	Organic and food waste	Sent to piggeries
Liquid Waste	Yes	Washrooms and Urinals	Connected to proper drainage system
Glass	Yes	Broken Glassware from the Labs	Proper sealing by wrapping several layers of paper before disposing in the garbage
Unused Equipment	Yes	Old and obsolete Equipments	Direct Selling
Napkins	Yes		Planning to install Incinerators
Others (specify)	-	-	-

The various types of waste are managed systematically and scientifically before disposing. The types of management methods followed are given in Table.

Table: Types of waste and their management

Type of waste	Management
Biodegradable garden waste and vegetable waste	Vermicomposting and composting by biobins are used
Waste papers	- Reusing papers printed on one side
Chemicals	- Reusing chemicals in chemistry lab
E-waste	E-waste is collected and given for recycling



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A) Management of Paper Waste

Papers are segregated based on the following basic paper grade categories:

- Magazines
- Mixed Paper
- Old Newspapers

Mixed paper is a broad category that often includes items such as discarded mail, telephone books, paperboard and catalogues.

High grade deinked paper is made of high grade paper such as letterhead, copier paper, envelopes, and printer and convertor scrap that has gone through the printing process.



B) Management of Food Waste

Food wastes and all other organic wastes from canteen are taken to a vermicomposting plant (figure). The food waste from the hostel is buried in a pit. The amount of organic matter being retained at the campus is nil.

C) Management of Combustible Waste

An incinerator is installed at the campus in which the combustible wastes like paper, plastic, wrappers, gunny bags, paper bags, clothes, sanitary waste etc. are burnt in an incinerator (figure). The ashes and residues from the incinerator are removed and used for gardening. No fuel is used for burning the waste.

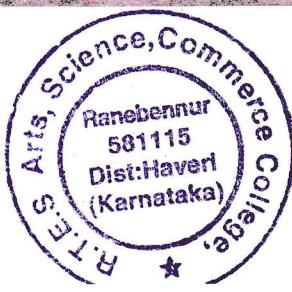
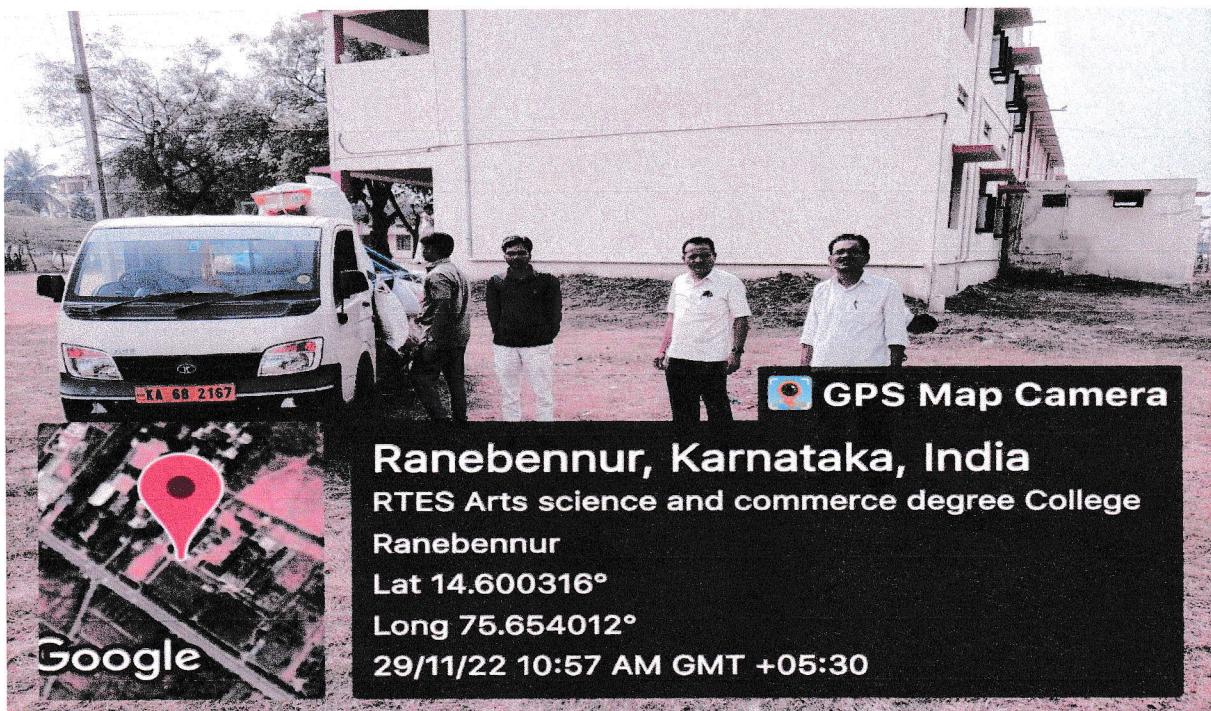


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Aditya
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Management of Recyclable Waste

Wastes including plastic bottles, glass bottles etc. are collected and given to the municipal waste collection units. E-wastes from the campus like monitors, keyboards, mouse, motherboard, hard discs, switch ports, UPS, CD's, LCD projectors, printers, battery etc. are presently stored in a room in the main block (figure) and given to E-waste scrap dealers.



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Waste Management Practices adopted by the college

RTES College is committed to striving towards "minimal waste generation". The college has a reasonable green campus and gives top priority to keep the campus very clean and eco-friendly. The boards with meaningful slogans are displayed to inculcate environmental consciousness among the students as well as stakeholders.

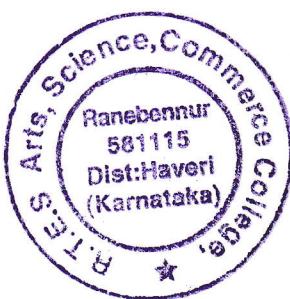
Human activities create waste, and it is the way these wastes are handled, stored, collected and disposed of, which can pose risks to the environment and to public health. Solid waste can be divided into three categories: bio-degradable, non-biodegradable and hazardous waste. Bio-degradable wastes include food wastes, canteen waste, wastes from toilets etc. Non-biodegradable wastes include what is usually thrown away in homes and schools such as plastic, tins and glass bottles etc. Unscientific management of these wastes may cause harmful discharge of contaminants into soil and water supplies, and produce greenhouse gases contributing to global climate change respectively. We collected the details of solid waste generation using questionnaires and observations and tabulated them below. We also diagnosed the prevailing waste disposal policies and suggested the best way to combat the problems in the recommendations. E-waste is among the fastest growing solid waste classes and represents a serious hazard for the environment.

Solid waste management:

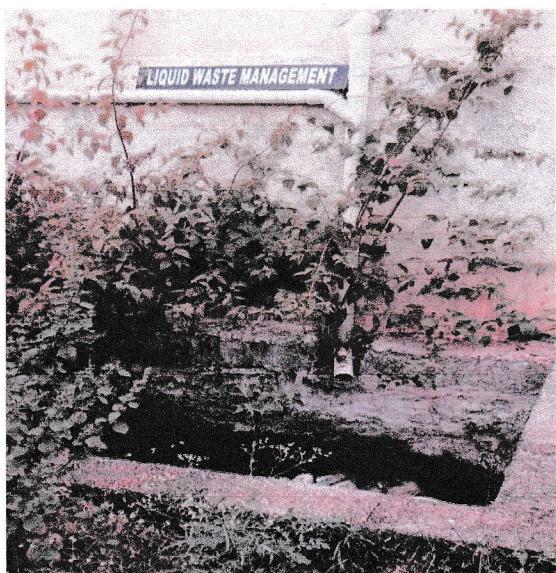
Waste from garden, canteen and other wet wastes are collected promptly from various parts of the campus. Biodegradable materials are converted into manure and used as an organic fertilizer for the garden. Non-biodegradable materials such as paper, plastic, old newspapers, old answer papers and raw paper material is sold out to the scrap shop. Municipal waste collectors visit the campus regularly to collect the waste.

E-waste management:

Electronic goods are put to optimum use; the minor repairs are set right by the laboratory assistants and teaching staff and the major repairs are handled by the technical assistant and are reused. The institution disposes off E-waste to be recycled through a regular dealer.



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Hazardous chemicals and radioactive waste management:

The chemicals that are hazardous and radioactive are not used in the laboratories. In the department of Chemistry, in order to reduce the environmental pollution and to save the wastage of chemicals, the solutions are stored and reused. Micro scale analysis is employed for the practical session in order to save the wastage of chemicals.

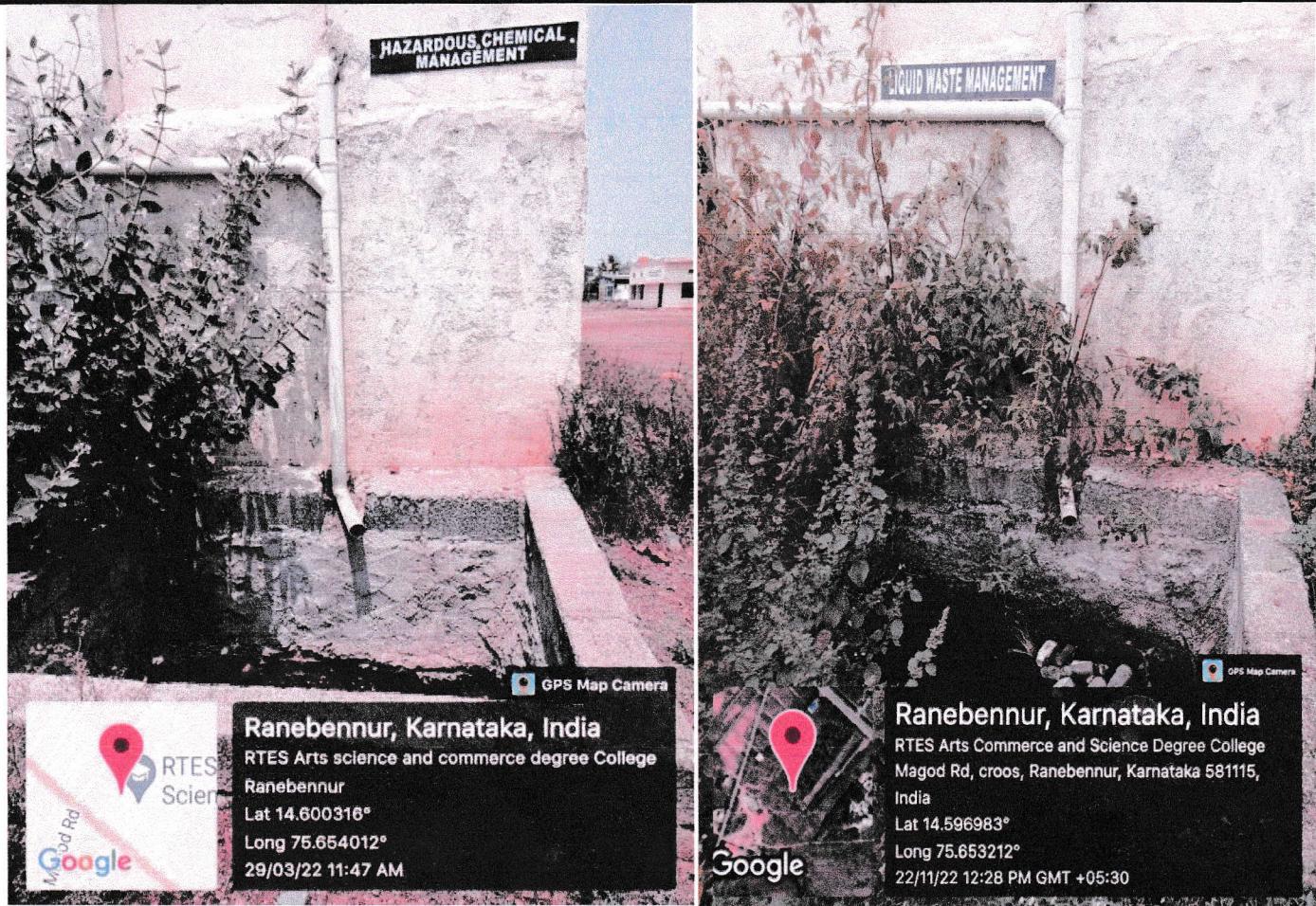
The average quantity of waste generated per day in different locations is given in Table

Table: Average quantity of waste generated per day (in kg)

Location	Biodegradable	Non-biodegradable	Hazardous	Others
Office	05 Kg	01 Kg		
Laboratory	06 Kgs	01 Kg	100 grams	
Central kitchen/Canteen	20 Kg	10 Kg		
Total	31 Kg	12 Kg	100 grams	



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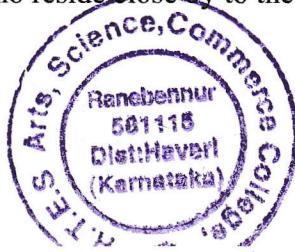


Waste recycling system:

In order to promote recycling of waste and creating the practice of organic farming Vermicompost was introduced by the department of **Botany/Zoology**

CARBON FOOT PRINT ANALYSIS:

1. No. of persons using public transportation – 80%
2. Total number of vehicles used by the stakeholders of the college. (Perday) -
3. No. of cars used - 5.42%
4. No. of two wheelers used - 46%
5. No. of Bicycles used - Nil
6. No. of stakeholders who walk to the college - 27%
7. No. of generators used per day - 01
8. Amount of fuel used. -approximately 2 Lit\ per day
9. Number of LPG cylinders used in canteen\labs - 04
10. Use of any other fossil fuels in the college- No
11. Any suggestion to reduce the use of fuel:
 - (i) Adopting car-pooling system by staff and students
 - (ii) Creating awareness among staff and students to use public transport
 - (iii) Some students and staff who reside close by to the college can resort to walking.



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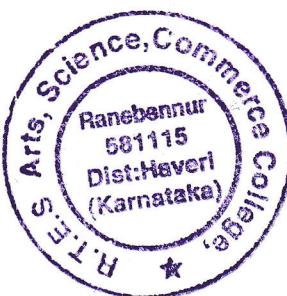
Carbon Footprint analysis:

Sl.No	Mode of Transport used	Number of Stakeholders	Percentage (%)
1.	Public Transportation (Bus, Auto)	25	13.51
2.	Cars	10	05.42
3.	Two Wheelers	85	45.94
4.	Walking	50	27.02
5.	Bicycles	15	08.12
Total			100

GREEN CAMPUS

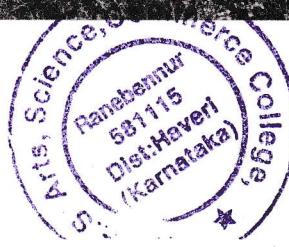
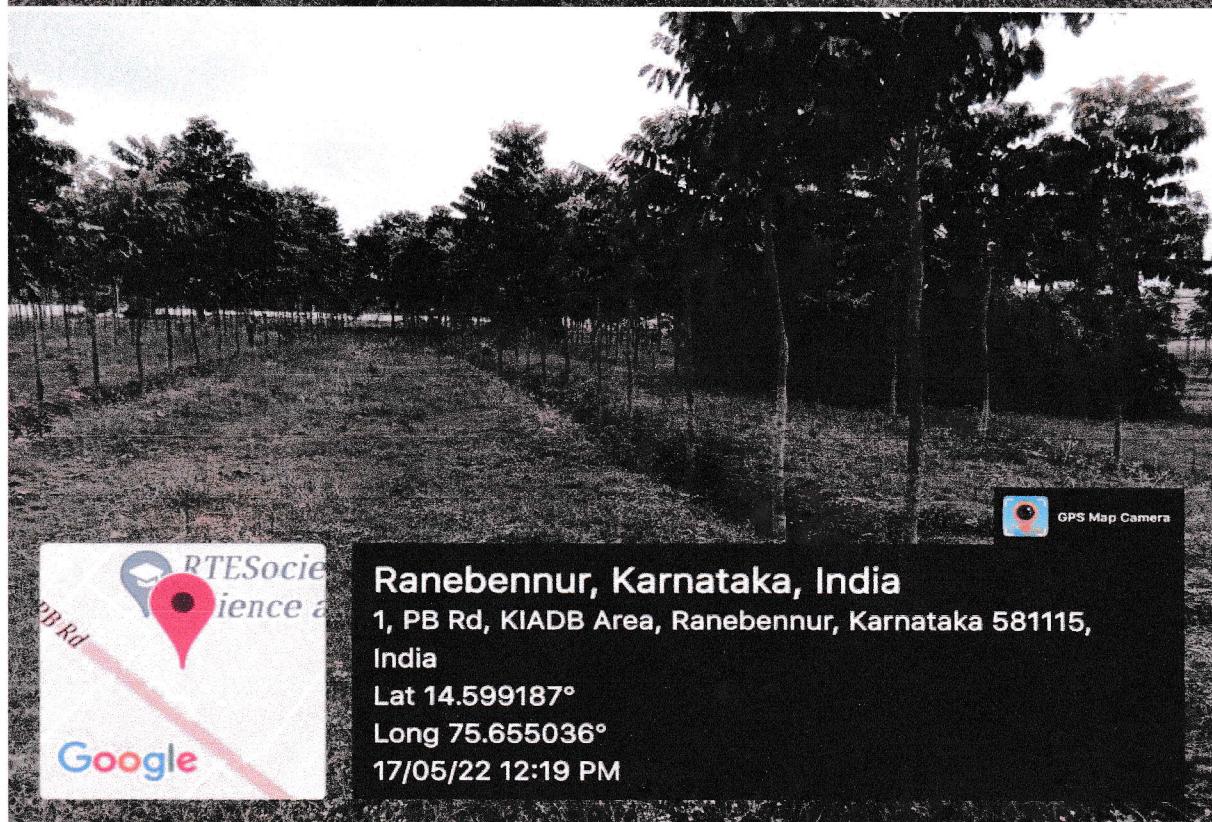
In terms of community and social value, trees and plants are an important part of every community. Trees increase the quality of human life by bringing natural elements and wildlife habitat into urban settings. Using trees in cities to deflect the sunlight reduces the heat island effect caused by pavements and commercial buildings. On the Ecological and environmental value front, trees contribute to their environment by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil and supporting animal and bird life. During the process of photosynthesis trees take in carbon dioxide and produce the oxygen the humans breathe. It is said that one acre of forest absorbs six tons of carbon dioxide and gives out four tons of oxygen. This is enough to meet the annual needs of 18 people. Trees, shrubs and turf also filter air by removing dust and absorbing other pollutants like carbon monoxide, sulphur dioxide and nitrogen dioxide. After trees intercept unhealthy particles, rain washes them to the ground.

Trees control climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Trees also preserve warmth by providing a screen from harsh wind. In addition to influencing wind speed and direction, they shield from the rain, sleet and hail. Trees also lower the air temperature and reduce the heat intensity of the greenhouse effect by maintaining low levels of carbon dioxide. Planting of native trees and shrubs have their own ecological benefits in the sense that, the native trees are the species that are already adapted to the local environmental conditions and they require far less water, saving money, time and the most valuable natural resource, water. In addition, they provide vital habitat for birds and many species of wildlife.

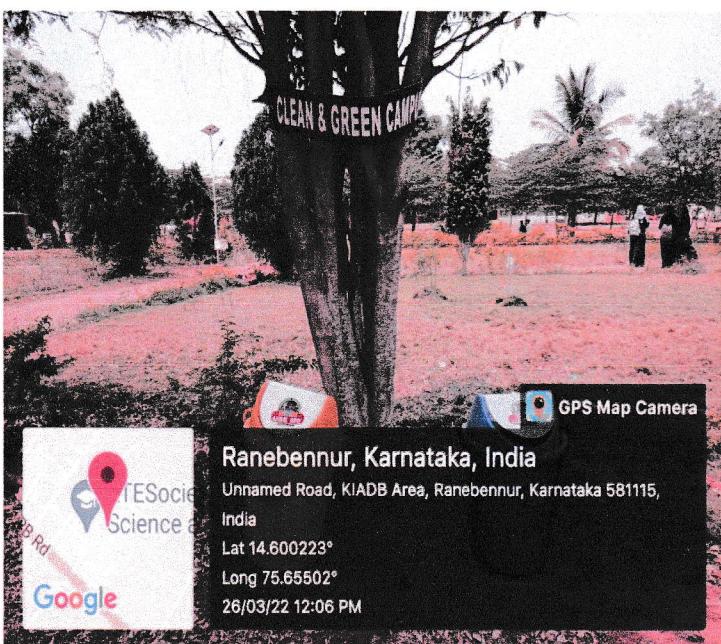


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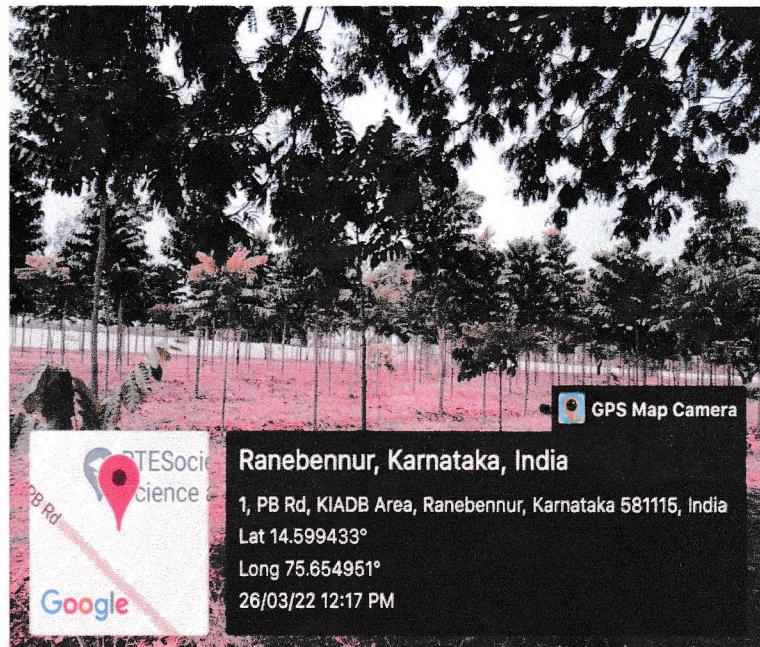


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Chaldeep
PRINCIPAL
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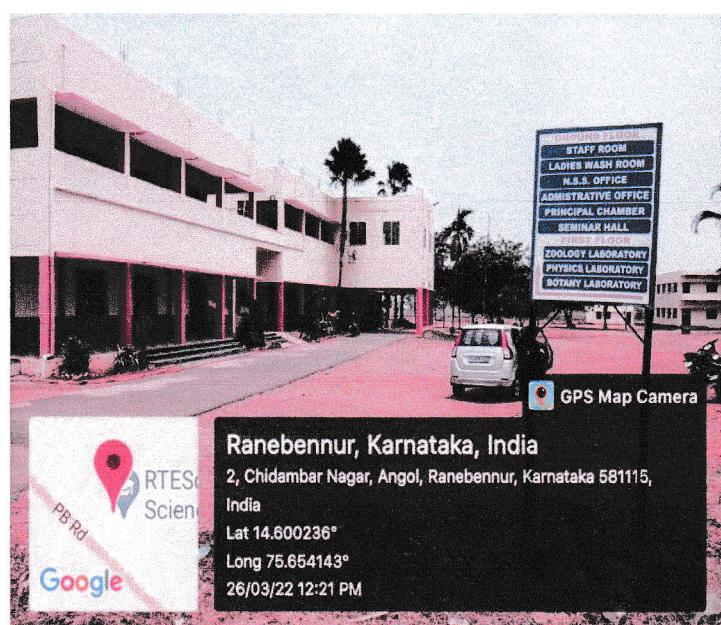
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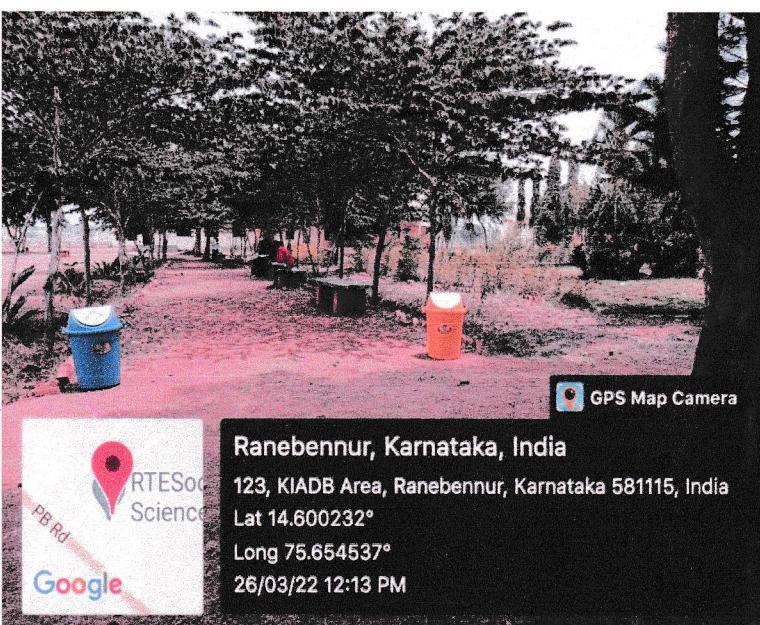
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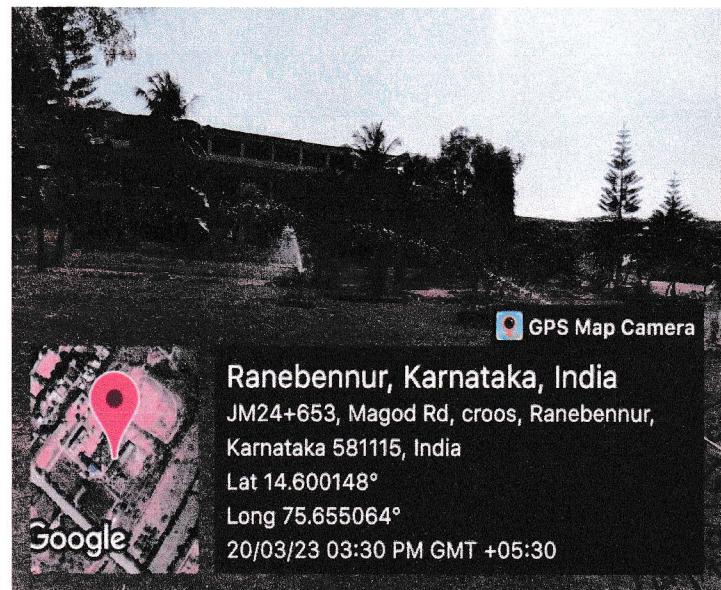
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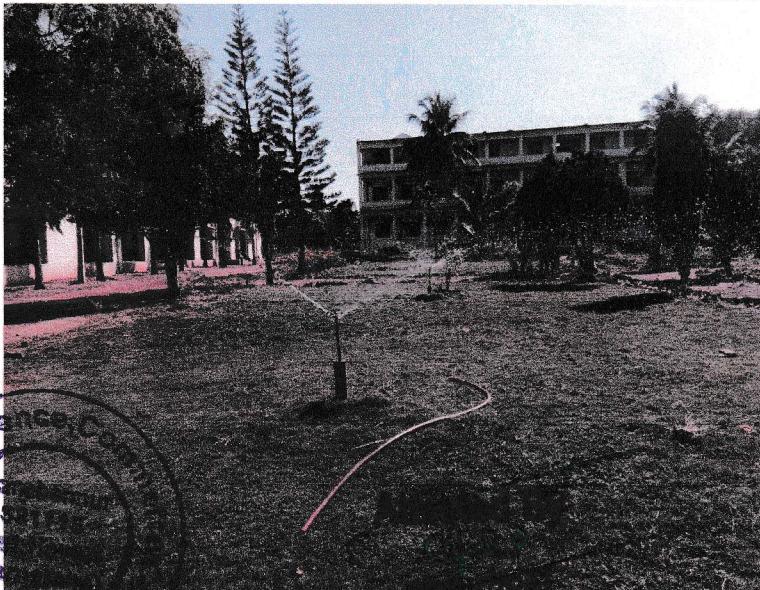
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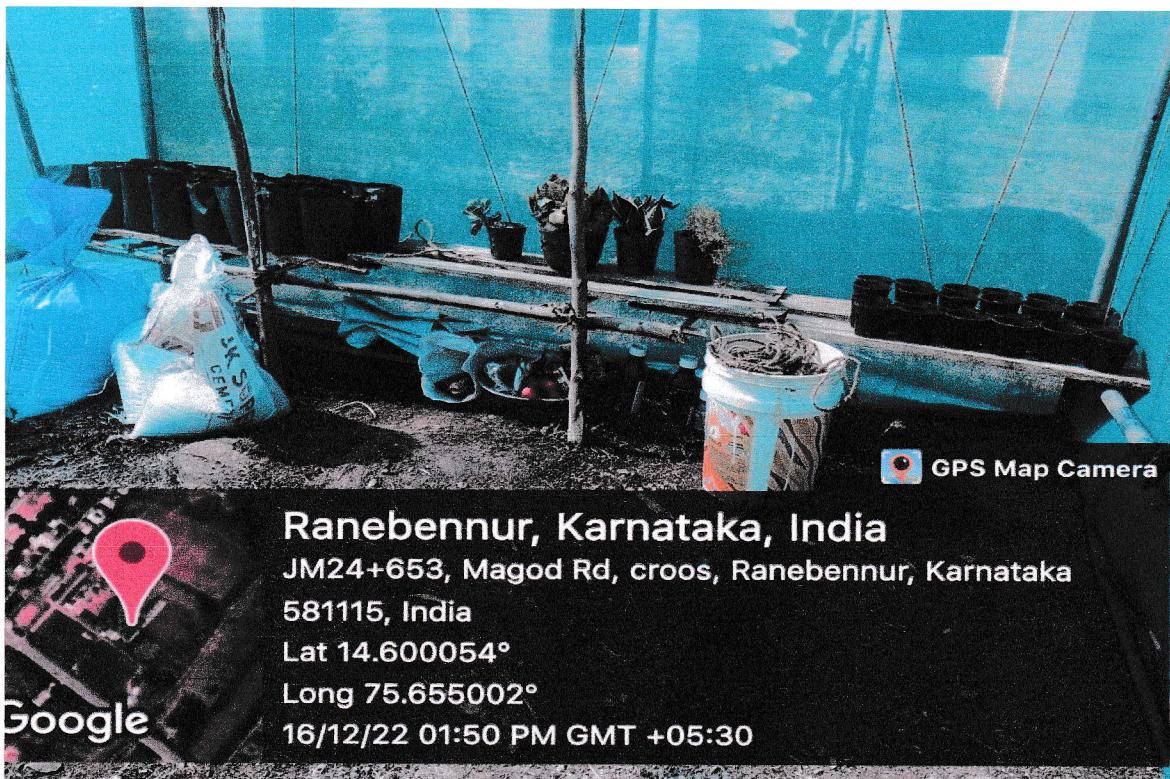


Ranebennur, Karnataka, India

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Green House:



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Flora of the campus

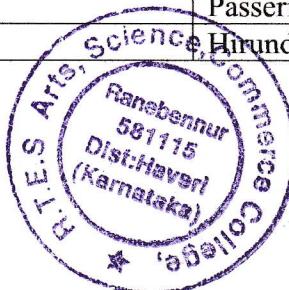
Sl.No	Scientific Name	Family	Common Name	Uses
1	Mangifera indica	Anacadiceae	mango	Fruit and timber
2	citrus medica	Rutaceae	lemon	Fruit
3	Tamarindus indica	leguminaceae	tamarind	Fruit and timber
4	syzium cumuni	Myretaceae	Jamun	Fruit and timber
5	Annona sqcomosa	Annonaceae	Custard apple	Fruit
6	Achras sapota	Sapotaceae	sapota	Fruit
7	Pisidium guva	Myretaceae	Guava	Fruit and timber
8	Cocos nucifera	Palmceae	coconut	Fruit ,timber and leaf
9	Swietenia mahagoni	Meliaceae	mahagoni	timber
10	Santalum album	Santalaceae	Sandal	timber
11	Eucalyptus spp	Myretaceae	Nilagiri	timber
12	Terminalia catappa	Combretaceae	Indian almond	Medicinal and timber
13	Aegle marmelos	Rutaceae	beal	workship and medicinal
14	Pongamia pinnata	Fabaceae	honge	Ornamental and biodiesel
15	Polyanthia longifolia	Annonaceae	false ashoka	Ornamental and medicinal

Fauna of the campus**Mammals**

Sl. No	Common Name	Scientific Name	Habitat
1	Mangya (monkey)		
2	Allilu (tree stripped Squirrel)		
3	Mola (hare)		

Birds

Sl. No	Common Name	Scientific Name	Habitat
1	Crow	Corvus splendens	tree
2	Jungle fowl	Gallus gallus	grassland
3	Kingfisher	Ceyx azureus	ponds
4	Sporrow	Passeridae domesticus	tree
5	Cuckoo	Hirundinidae Cuculidae	tree

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6	PeaFowl	Pavocristatus	grassland
7	Jewel bird	Centropus sinernsis	grassland
8	Crane	Grus	field

Amphibians

Sl. No.	Common Name	Scientific Name
1	Common Indian Toad	<i>Duttaphrynusmelanostictus</i>
2	Indian Bull Frog	<i>Hoplobatrachusgrinus</i>
3	Karaavali Skittering Frog	<i>Euphlyctiskaraavali</i>
4	Frog	<i>Rana</i>

Reptiles

Sl. No	Common Name	Scientific Name	Habitat
1	Caloties	<i>Caloties versicolor</i>	tree
2	Cobra	<i>Naja naja</i>	grassland
3	Rat snake	<i>Russel viper</i>	grassland
4	Havarani	<i>Spheno orphus</i>	grassland
5	Lizard	<i>Podarcis muralis</i>	grassland

Butterflies

Sl. No	Common Name	Scientific Name
1	Butterflies	
2	Blue Tiger	<i>Tirumala limniace</i>
3	Monarch butterfly	<i>Danaus plexippus</i>
4	fox moth	<i>Macrothylacia rubi</i>
5	Isabella tiger moth	<i>Pyrrharctia isabella</i>
6	Owlet moths	<i>Noctuidae</i>
7	Burnet moths	<i>Zygaena</i>

Dragonflies & Damselflies

Sl. No.	Common Name	Scientific Name
1	Common Hooktail	<i>Paragomphuslineatus</i>
2	Common Clubtail	<i>Ictinogomphusrapax</i>
3	GaintClubtail	<i>Megalogomphushannyangtoni</i>

Arachnids (Spiders & Non Arachnids)

Sl. No.	Common Name	Scientific Name
1	Jumping Spider	<i>Carrhotusviduus</i>
2	Jumping Spider	<i>Hyllus semicupreus</i>
3	Jumping Spider	<i>Baviaaspis</i>

Insects (Beetles, Bugs & Hoppers, Flies, Ants, Bees & Wasp)

Category	Common Name	Scientific Name
Beetles	Ladybird Beetle	<i>Cheilomenessexmaculata</i>
	Ladybird Beetle	<i>Anegleiscardoni</i>
	Ladybird Beetle	<i>Coccinella transversalis</i>



Attested By

S. Balaji

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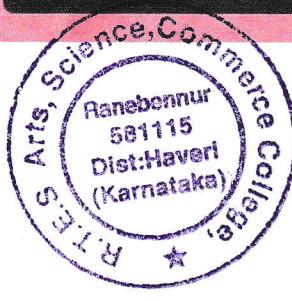
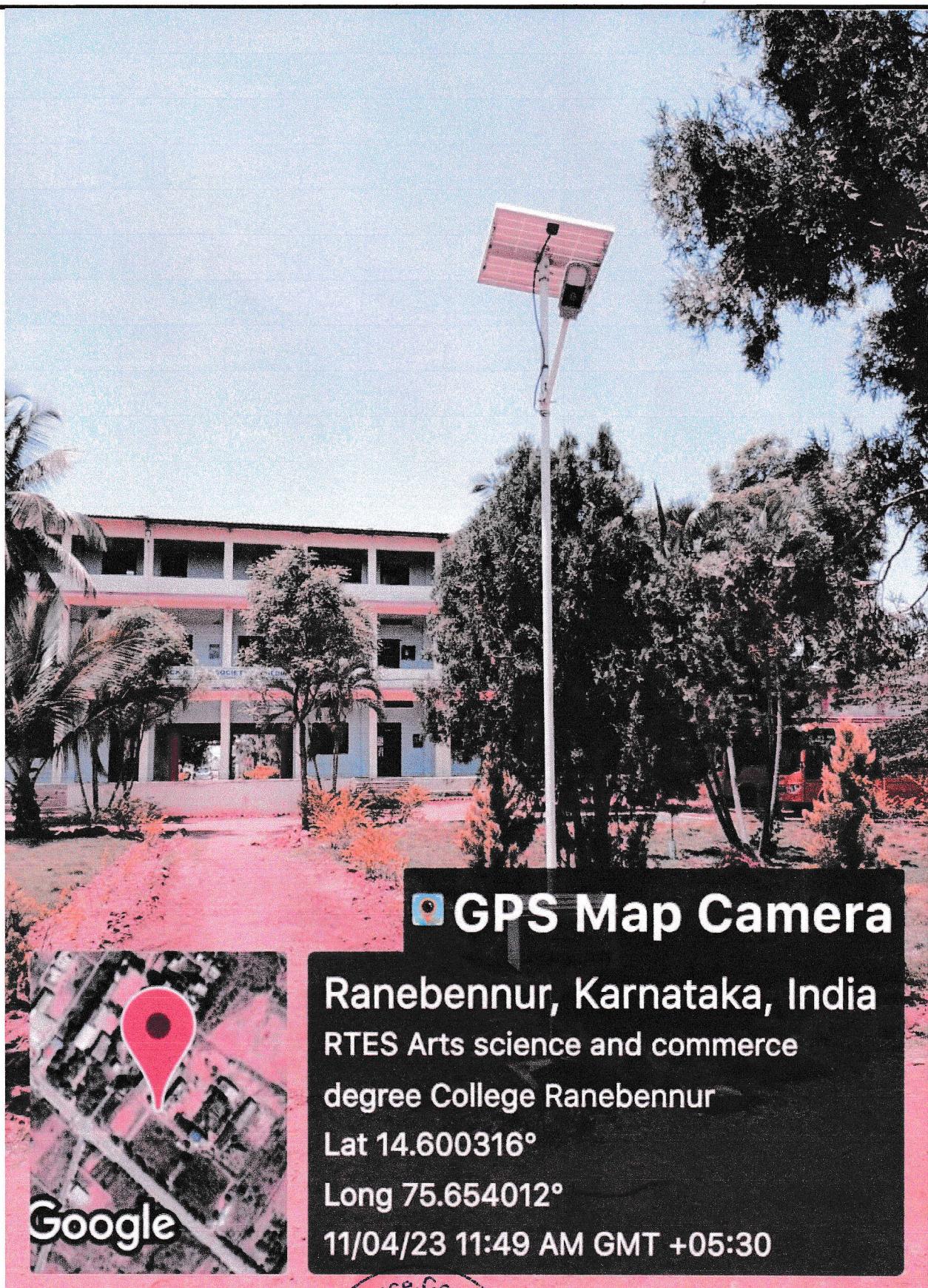
	Dung Beetle	<i>Onthophagussps</i>
Bugs & Hoppers	Aphid	<i>aphis nerii</i>
	Mealybug	<i>Pseudococcidaesp</i>
	Lantern Fly	<i>Dictyopharidaesp</i>
	Cicada	<i>Platypleurabasialba</i>
	Planthopper Nymph	<i>Flatidaesp</i>
True Flies	Housefly	<i>Musca domestica</i>
	Flesh Fly	<i>Sarcophagasp</i>
	Bluebottle Fly	<i>Chrysomyasp</i>
	Hoverfly	<i>Episyrphussps</i>
Ants. Bees & Wasps	Black Ant	<i>Formicidae sps</i>
	Weaver Ant	<i>Oecophyllasmargdina</i>
	Harvester Ant	<i>Monomorium criniceps</i>
	Bicolour Ant	<i>Formicidae sps</i>

PHOTOS OF FLORA AND FAUNA

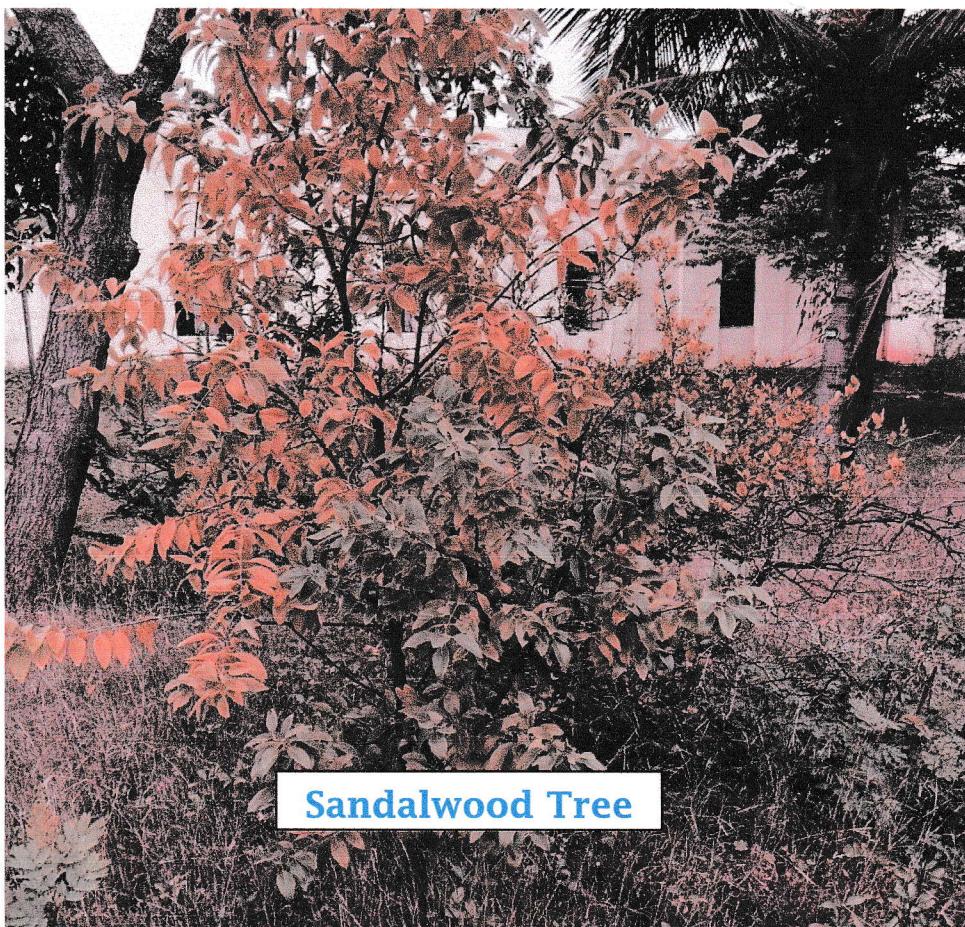


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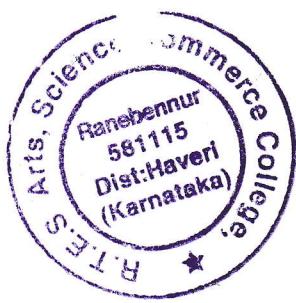
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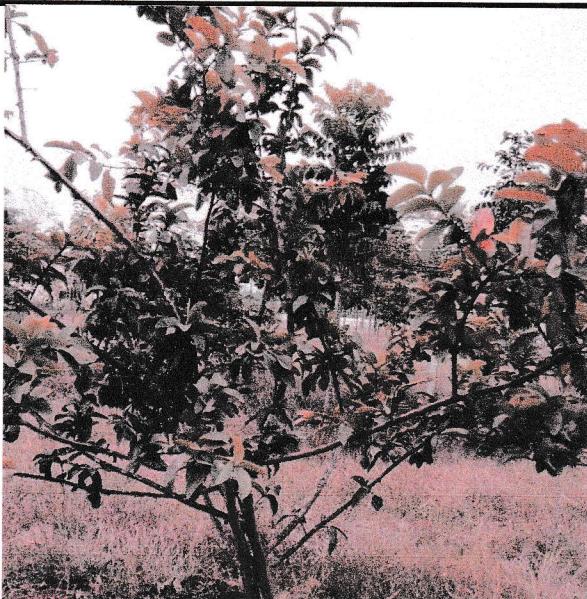
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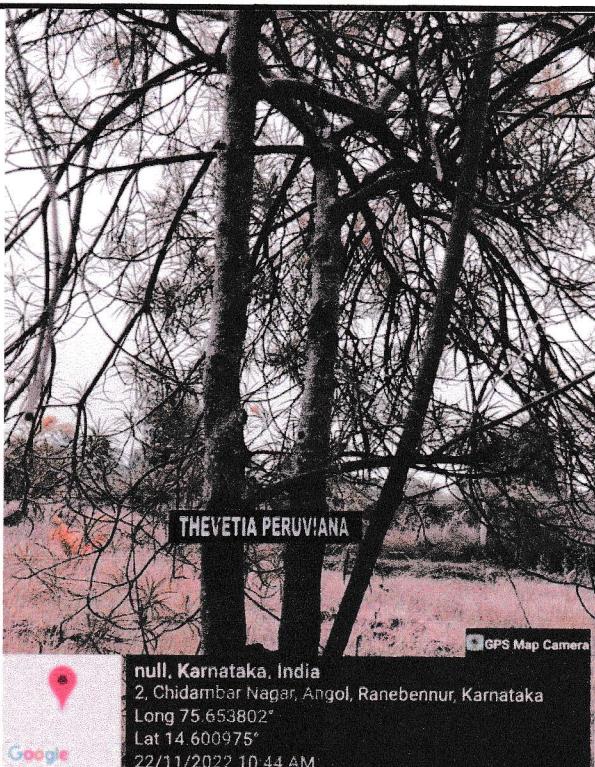


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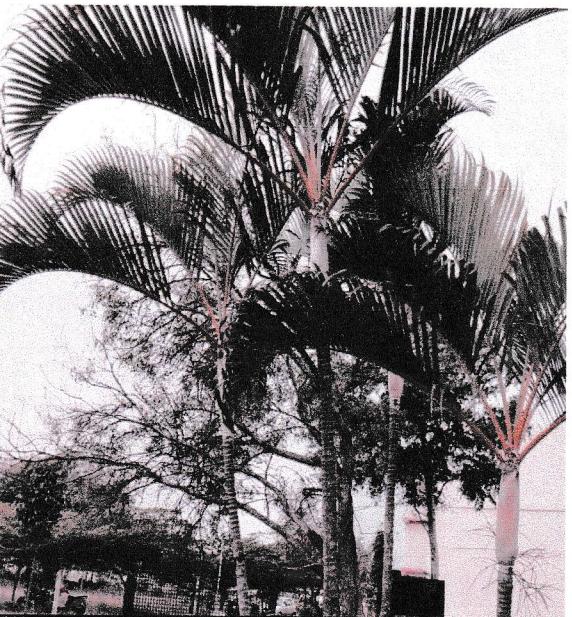


Guava Tree

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Lat 14.597369°
22/11/2022 10:40 AM

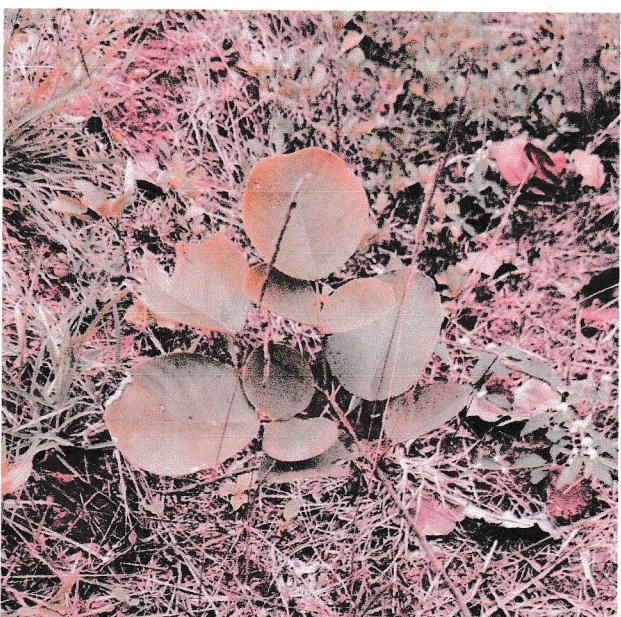


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2, Chidambar Nagar, Angol, Ranebennur, Karnataka
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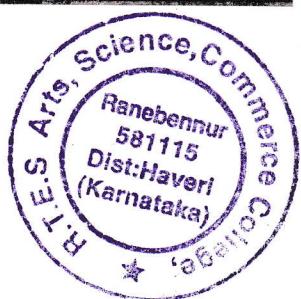
Ornamental Palm

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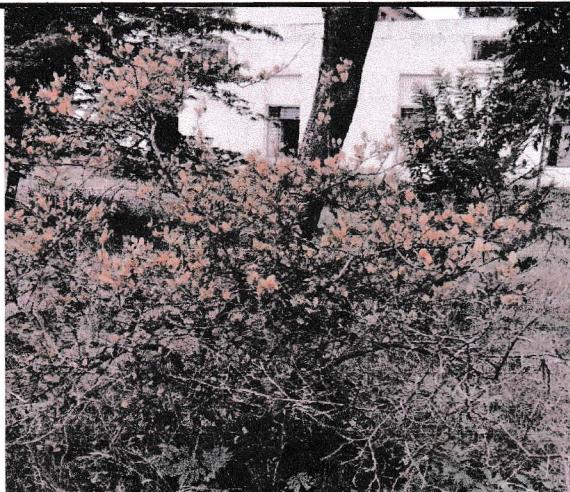


Red Sandalwood

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JM78+P8J, Shrinivaspur, Karnataka 581115, India
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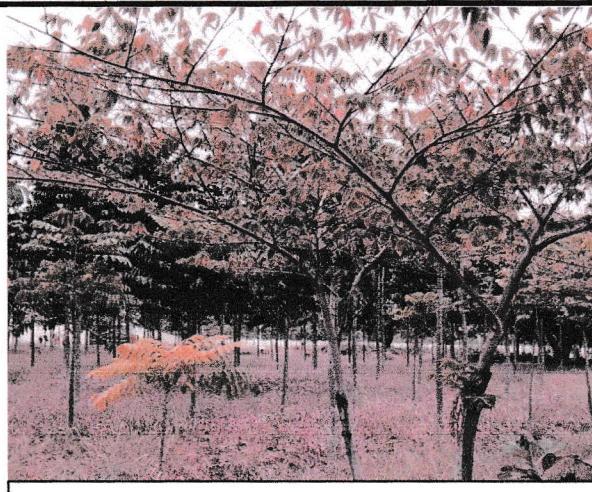


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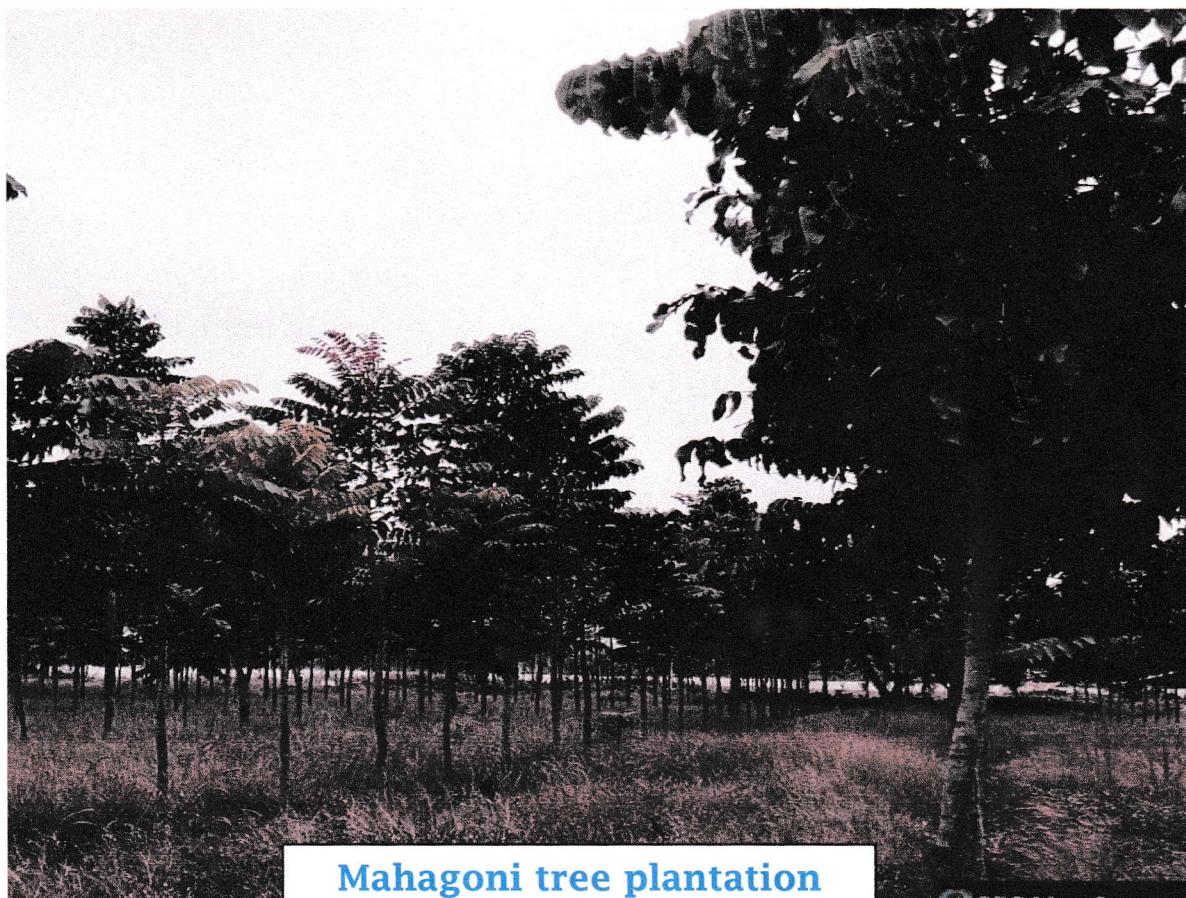
Lemeon

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HIMW2+6WM, Ranebennur, Karnataka 581115, India
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22/11/2022 10:48 AM



China cherry

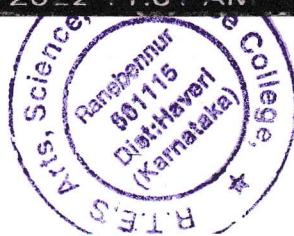
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NH-4, Karnataka 581115, India
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Mahagoni tree plantation

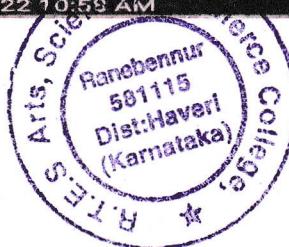
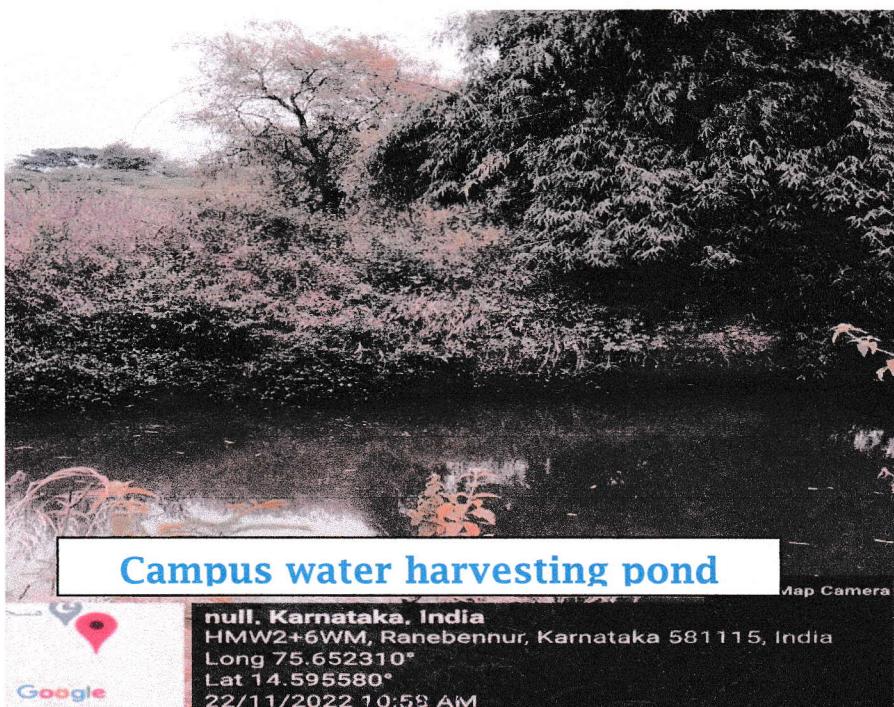
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GPS Map Camera

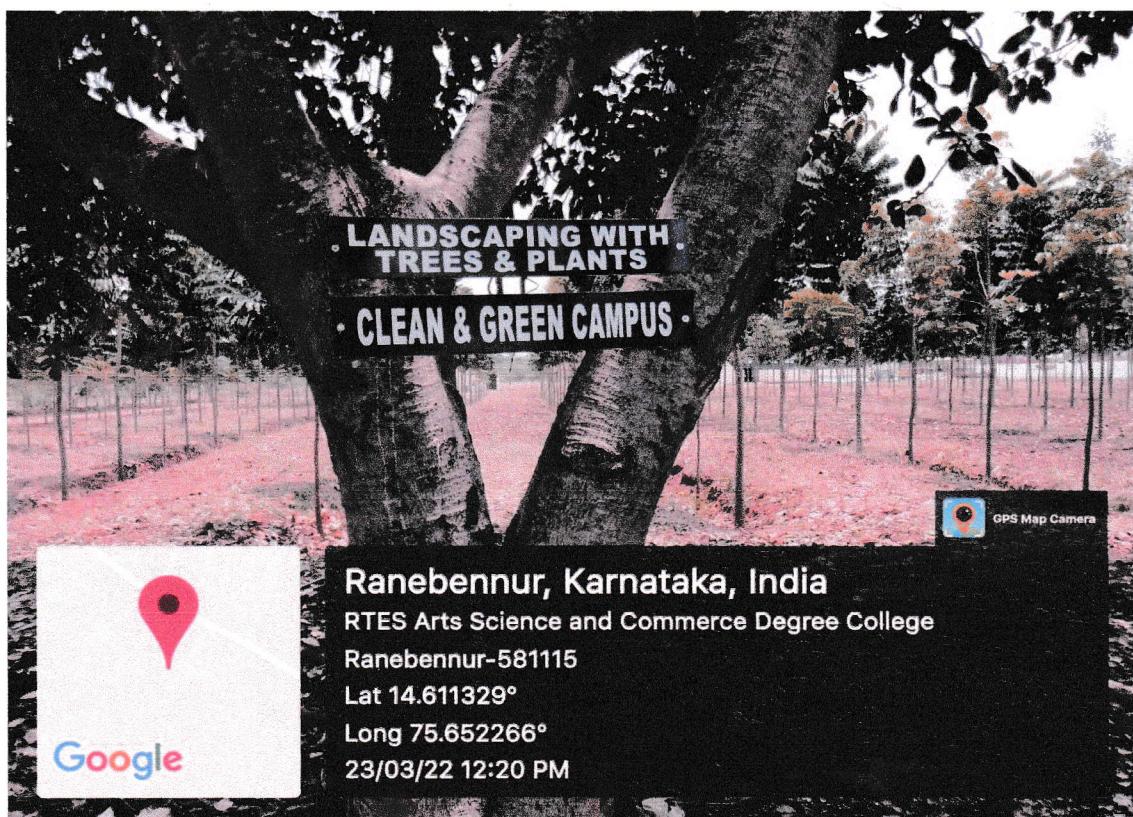


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Commerce Degree College, RANEBENNUR

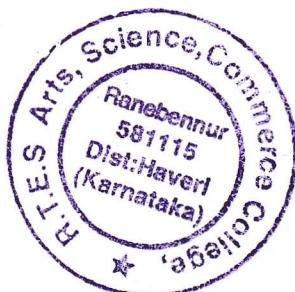


Nature Club activities

Total No. of students enrolled: 100

Programs and Activities

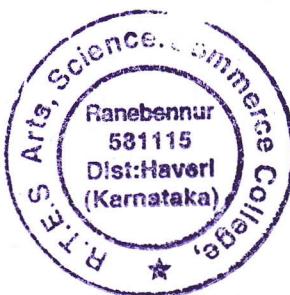
Sl. No.	Programme	Organizer	Date	Total no. of students
1.	World Environmental day	In association with NCC and NSS	5-06- 2021	30
2.	Oxygen challenge campigen	In Association with NSS team	17-06-2021	50
3	Plantation	Association with Rotary Bangalore Kuvempu Nagar and NSS unit	02-10-2021	34
4	WORLD LAND DAY	NSS and Department of Botany	23-04-2021	30
5	College Campus Plantation Day	In Association with NSS team	07-06-2022	36



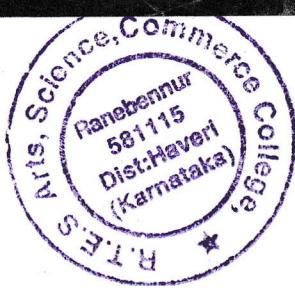
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R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR

World Environmental Day

Duration in days:	01	Date: 06/06/2022
Name of the event:	World Environmental Day	Venue: College Seminar Hall
Organized by:	NSS	
Number of participants:	50	
Objective:	World Environment Day, a part of the United Nations Environmental Program (UNEP) is celebrated with the motive of mobilizing businesses, governments, celebrities, and ordinary people to take action on urgent environmental challenges.	
Outcome of the program:	It calls for prompt action to address pressing global concerns like pollution, the plight of the oceans, the increase of human population, global warming, the protection of wildlife and forests, and most crucially, sustainable development through the protection of the planet's natural resources.	



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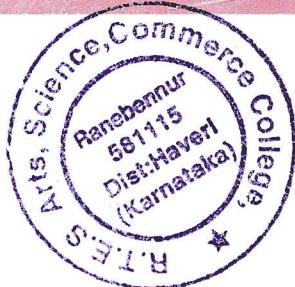
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R.T.E.S.Society's Arts, Science &
Commerce Degree College, RANEENNUR



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R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANE BENNUR

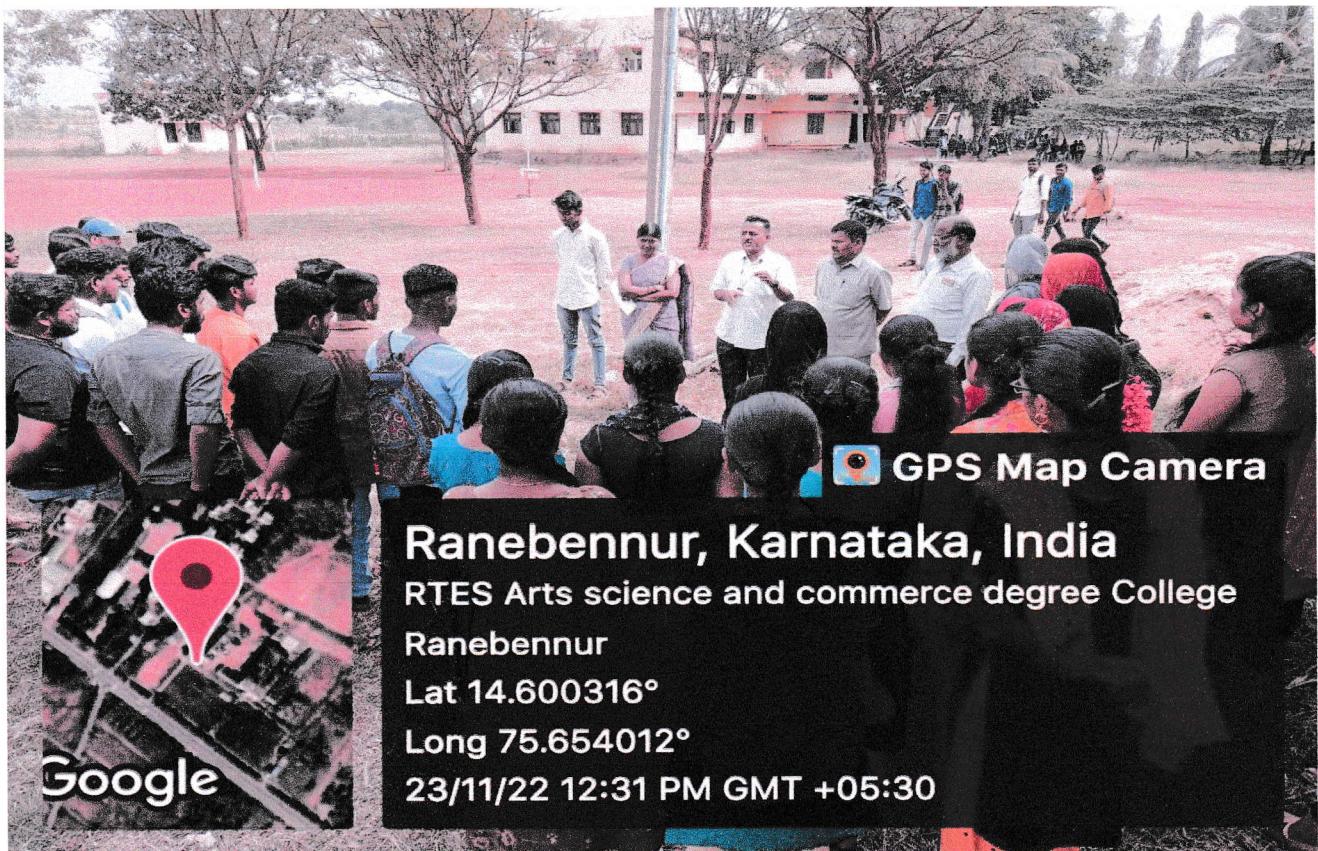
SWACHATA ABHIYANA

Name of the event:	Swachata Abhiyana	Venue: College campus
Organized by:	NSS	Date: 23-11-2022
Number of participants:	50	
Objectives:	The College took initiatives upon Swachha Bharata Abhiyan With the positive progress and features. The programme started with a welcome note and then proceeded towards the main function of the day. More than 100 participants attended the programme. Students and staff made efforts collaboratively to make the programme a sure success.	
Outcome of the program:	Good personal hygiene habits include brushing one's teeth, bathing or showering, and wearing clean clothes. Performing these habits daily or as often as needed achieves and maintains good hygiene and cleanliness. Good hygiene can help one to stay healthy and offers countless positive benefits for one's physical, emotional, and psychological health.	



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भारत सरकार
युवा कार्य एवं खेल मंत्रालय
रा.स.यो. क्षेत्रिय निदेशालय, पुणे
(महाराष्ट्र राज्य योगदा)



Government of India
Ministry of Youth Affairs & Sports
Regional Directorate of NSS, Pune
(Maharashtra & Goa)

NIC (National Integration Camp) Mumbai University Mumbai

F. No. 18/NIC/RD-Pune/Mumbai/2022-23/ 5-31.

18-04-2022

By e-mail

To

1. The Regional Directors, NSS of :- Ahmedabad, Bangalore, Bhopal, Chennai, Guwahati, Hyderabad, Kolkata, Patna & Thiruvananthapuram.
2. The NSS Program Coordinators of Universities : Mumbai, SP Pune, Shivaji, SNDT, RTM, Amravati, BAMU, Bharati, Gokhale Inst., MGM, HSNC, Homi Baba, DY Patil and Goa.

Sub : Organizing a National Integration Camp at Mumbai from 22nd to 28th May, 2022 – Request for deputation of NSS Volunteers & POs – reg.

Sir,

I am to refer to the subject and happy to inform you that Ministry of Youth Affairs & Sports, Government of India has sanctioned a National Integration Camp (NIC) to this office and it will be organized in collaboration with University of Mumbai from 22nd to 28th May, 2022 at University of Mumbai, Vidyanagri, Kalina Campus, Santacruz (East), Mumbai-400 098. The accommodation for the Campers is at International Students Hostel, University of Mumbai, Kalina Campus. The route map, for guidance how to reach the Camp site is attached herewith for your reference.

In this regard, I am to request you to depute NSS Volunteers & Prog. Officer (Team Leader) as per the allocation chart attached herewith as Annexure-I. No deviation of allocation will be permitted. The Organizers will provide free boarding & lodging and reimburse to & fro travel expenses strictly by ordinary bus or second class sleeper by train by shortest route from the nearest railway station or bus stand of their Institution to the Camp site on production of original tickets along with duly filled & signed Bank Mandate form.

Contingent must have knowledge of art, culture, tradition, languages, dresses, cuisines, food etc. of their concerned State/UT. Kindly inform the participants to carry the various forms viz Bio-data, Indemnity Bond, Voluntership Certificate, 3 Passport-size Colour Photographs, etc. attached herewith duly signed with seal along with their articles for daily use.

Further, Contingent may kindly be advised to reach the Camp site on 21st May evening or in the morning of 22nd May and book their return journey tickets from 28th May, 2022 evening onwards.

... Contd. Page 2.

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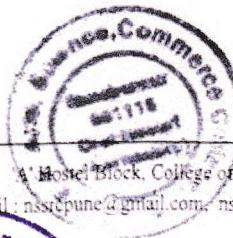
Shobey

PRINCIPAL

R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANE BENNUR

अ. शोभेय, कृष्ण महाविद्यालय परिसर, शिवाजीनगर, पुणे 411004. A Hostel Block, College of Agriculture Campus, Shivajinagar, Pune 411005.

Telefax : 020 - 2553 3401 E-mail : nssrepune@gmail.com, nssrepune@yahoo.com



Shobey
18/04/2022



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Shobey

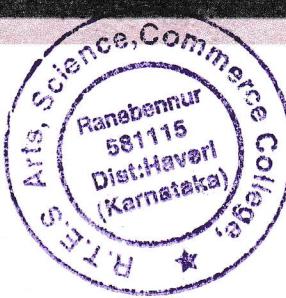
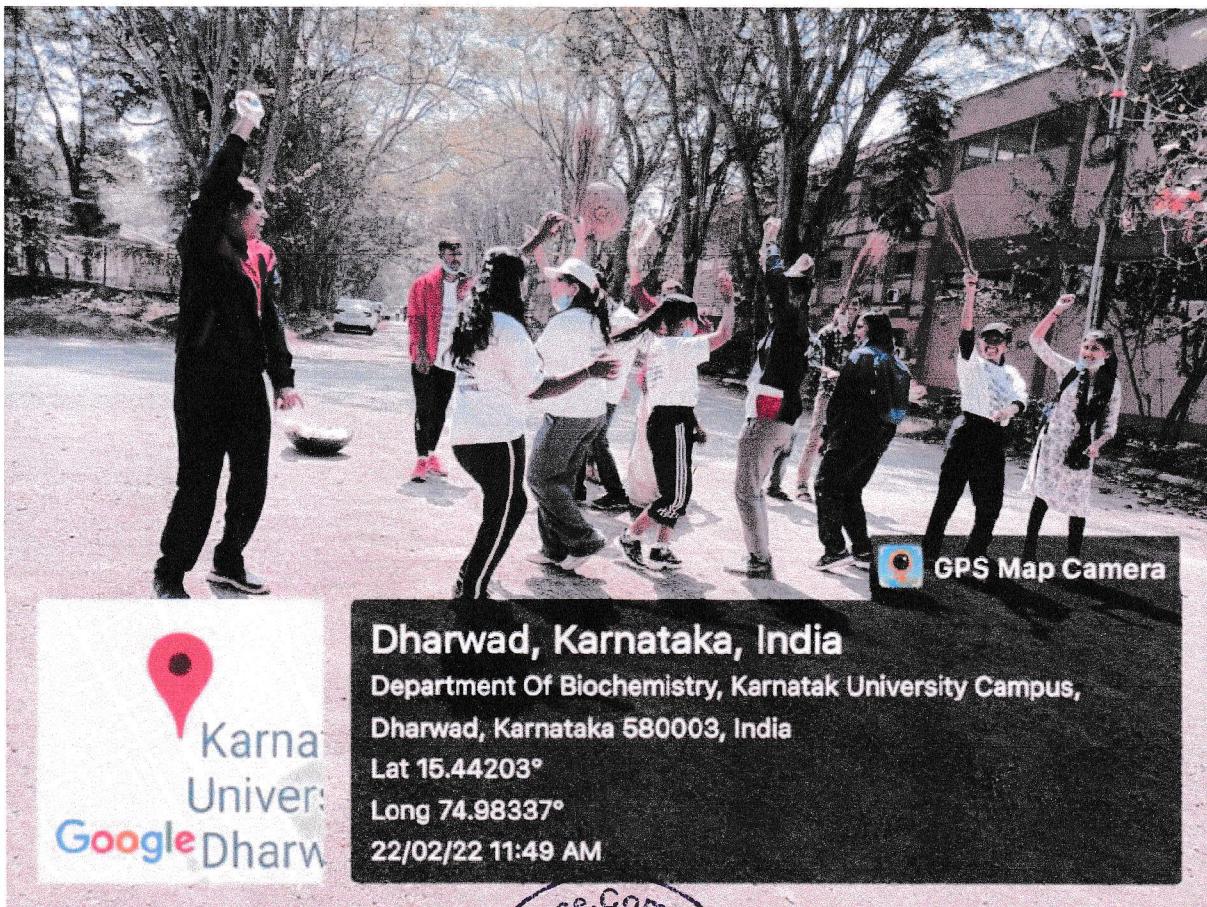
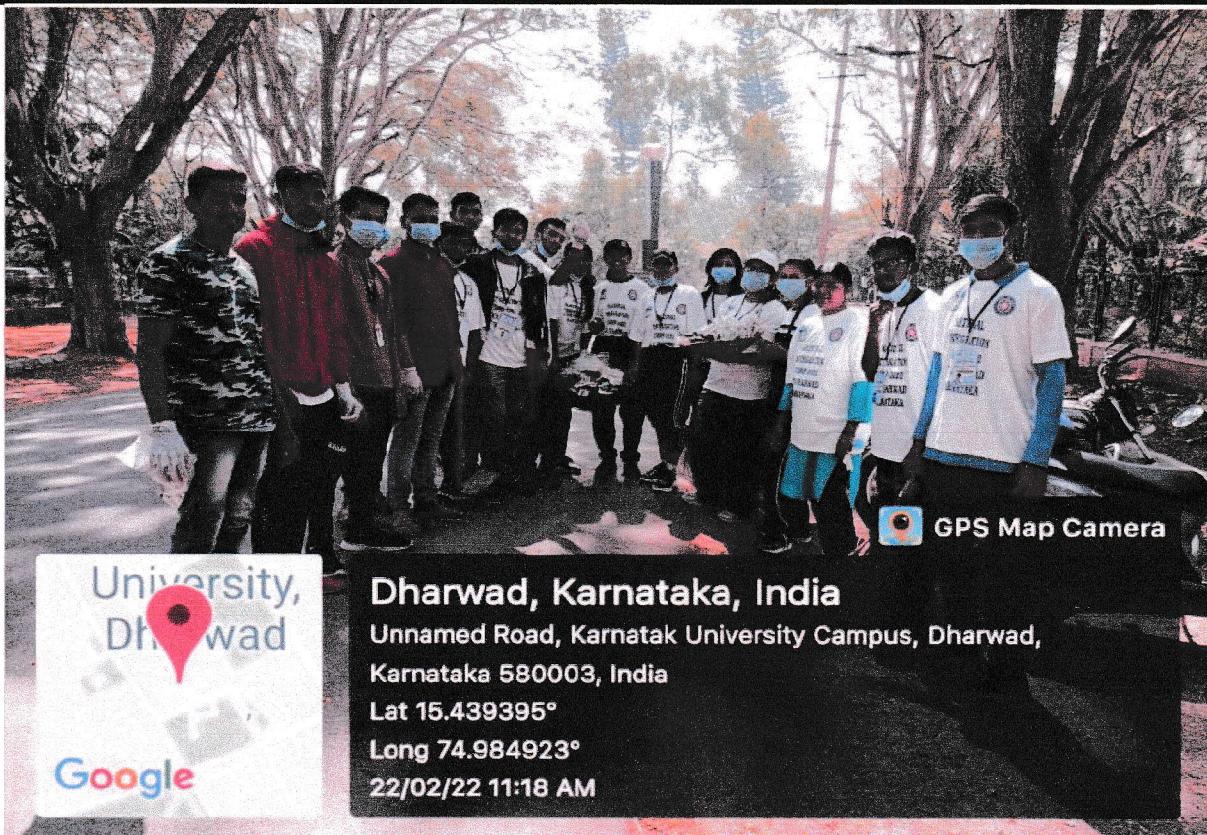
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Commerce Degree College, RANE BENNUR

NIC (National Integration Camp) Karnataka University
Dharwad

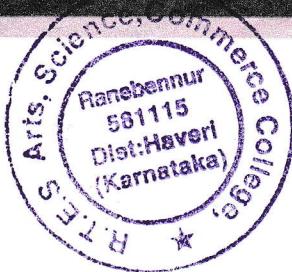
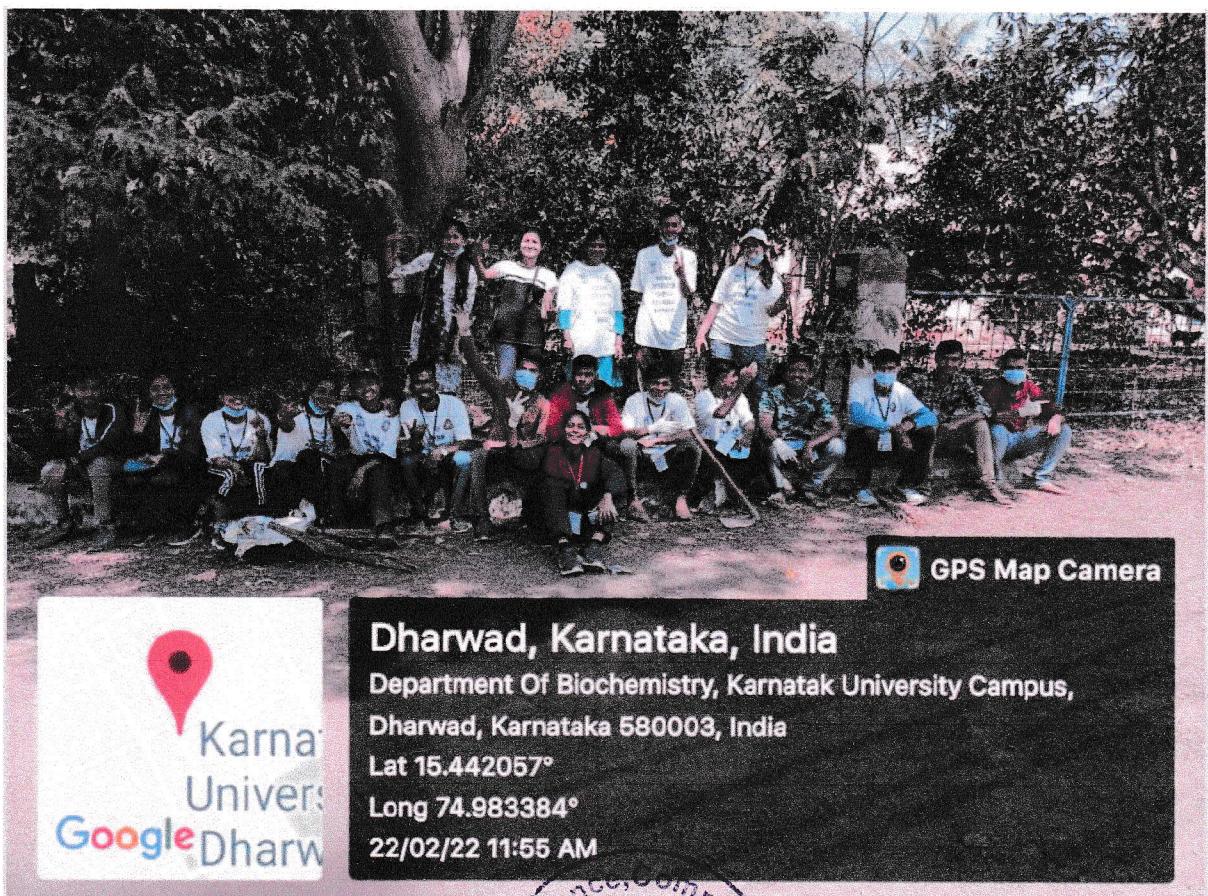


Attested By
Shakir
PRINCIPAL
R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANEBENNUR



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~~S. D. S.~~
~~PRINCIPAL~~

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R.T.E.S.S. Arts, Science &
Commerce Degree College, RANEBENNUR



Approved By
PRINCIPAL

No.	Name of the Volunteer	Gender	Institution Name	Contact No.
1	Sankar Hoskotri	M	P.C.John Science College, Hubballi	8103577121
2	Dasyand B Angadi	M	B.R.E.T. Arts Commerce Science	6360936192
3	Mahadevashini Madar	M	Govt. First Grade College, Hubballi	9035847173
4	Sudanand J Malgundi	M	R.L.S. Arts Commerce Science	9019994562
5	Mahesh B Nalik	M	Govt. First Grade College, Siddapur	7483874791
6	Aishwarya B Burdi	F	S.M.B.K. Govt. First Grade College	8971347211
7	Aishwarya	F	G.H. College, Haveri	7022877461
8	Asha M Bellavar	F	Govt. First Grade College, Yallapur	7022563422
9	Akshara M Mane	F	Siddarameshwar College Of Education, Dharmavadi	7090416182
10	Aparna S Hegde	F	D.R.A.V. Baliga College Of Commerce, Kumbra	9483211787
11	Comittee Leader	F	R.T.E.S. Arts Commerce & Science	9611561968

In this regard you are requested to despite the NSS Student Volunters and Programme officer
Consequently College as mentioned below.

With reference to the subject cited above this is to inform you that The National Integration Camp is
being conducted by NSS Regional Directorate. Please to be held at the University of Mumbra, Vidyanganjat,
Kallina Campus, Santacruz (East), from 22-05-2022 to 28-05-2022 (07 days).

Subject: Depuration of NSS Volunteers & NSS Programme officer for participation in
National Integration Camp-2022 to be held at the University of Mumbra, Vidyanganjat,
Kallina Campus, Santacruz (East) from 22-05-2022 to 28-05-2022 (07 days). Regd.

Sir/Madam,

The Principal, R.T.E.S. Arts Commerce & Science College, Ranbennur
The Principal, Dr. A. V. Baliga College of Commerce, Kumbra.
The Principal, Siddarameshwar College Of Education, Dharmavadi.
The Principal, Govt. First Grade College, Yallapur.
The Principal, G.H. College, Haveri.
The Principal S.M.B.K. Govt. First Grade College, Naragali.
The Principal, Govt. First Grade College, Siddapur.
The Principal, R.T.E.S. Arts Commerce & Science College, Hubballi.
The Principal, Govt. First Grade College, Motobenur.
The Principal, P.C.John Science College, Hubballi.
The Principal, B.R.E.T. Arts Commerce & Science College, Motobenur.
The Principal, Govt. First Grade College, Hubballi.
The Principal, P.C.John Science College, Hubballi.

To,

REF No: KU-300-1/NSS/2022-23/113
Date: 06-05-2022

Cell No: 9845312977
E-mail: kundhessell@gmail.com

Dr. M. B. Dabapu

Programme Co-ordinator
Pavati Nagar, Dharmavadi - 580 003

NATIONAL SERVICE SCHEME

University with Potential for Excellence



KARNATAK UNIVERSITY, DHARWAD



NIC MUMBAI



Mumbai, Maharashtra, India

University Dept of Biophysics, 3V93+CWM, Vidyanagari Campus, Kalina, Santacruz East, Koliwadi Village, University of Mumbai, Vidya Nagari, Kalina, Santacruz East, Mumbai, Maharashtra 400098, India

Lat 19.068452°

Long 72.855118°

24/05/22 04:30 PM



Mumbai, Maharashtra, India

University Dept of Biophysics, 3V93+CWM, Vidyanagari Campus, Kalina, Santacruz East, Koliwadi Village, University of Mumbai, Vidya Nagari, Kalina, Santacruz East, Mumbai, Maharashtra 400098, India

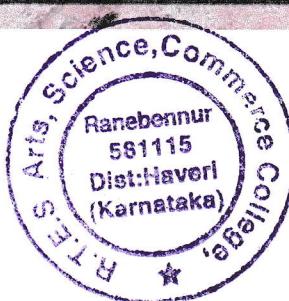
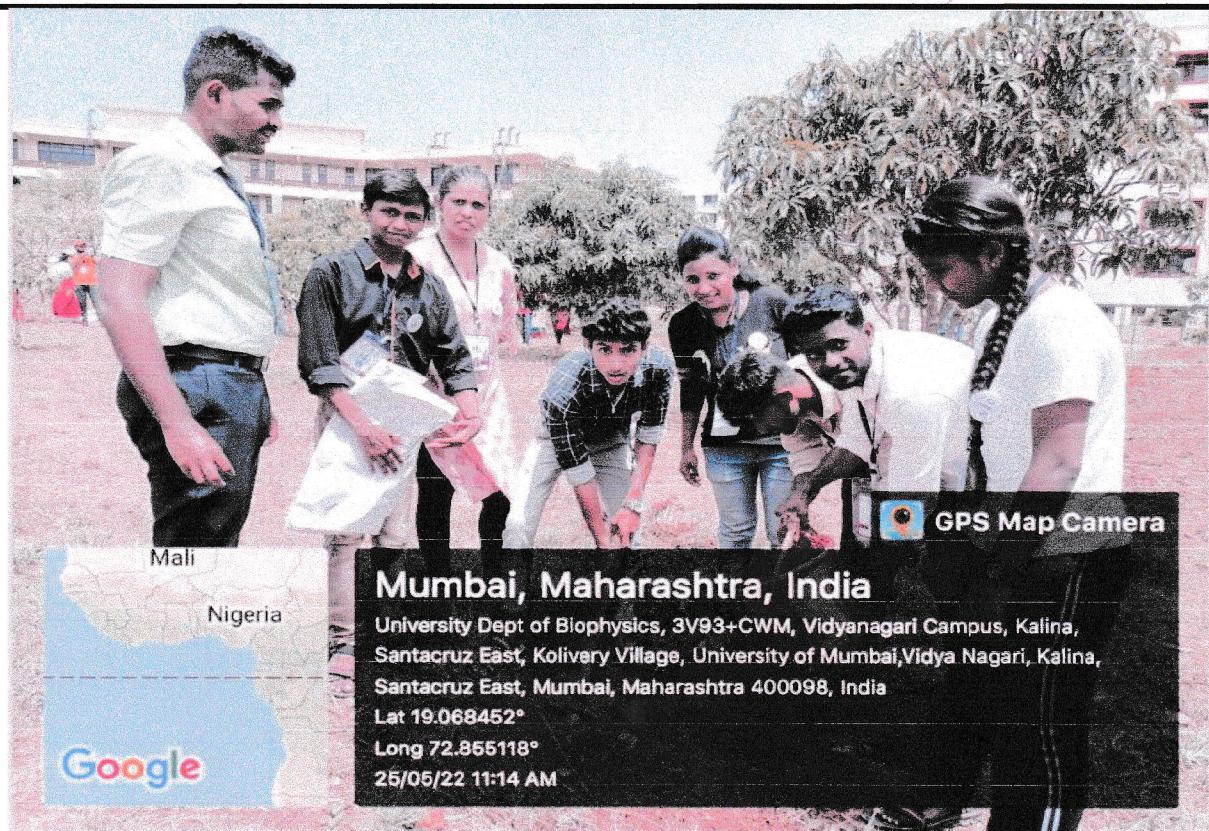
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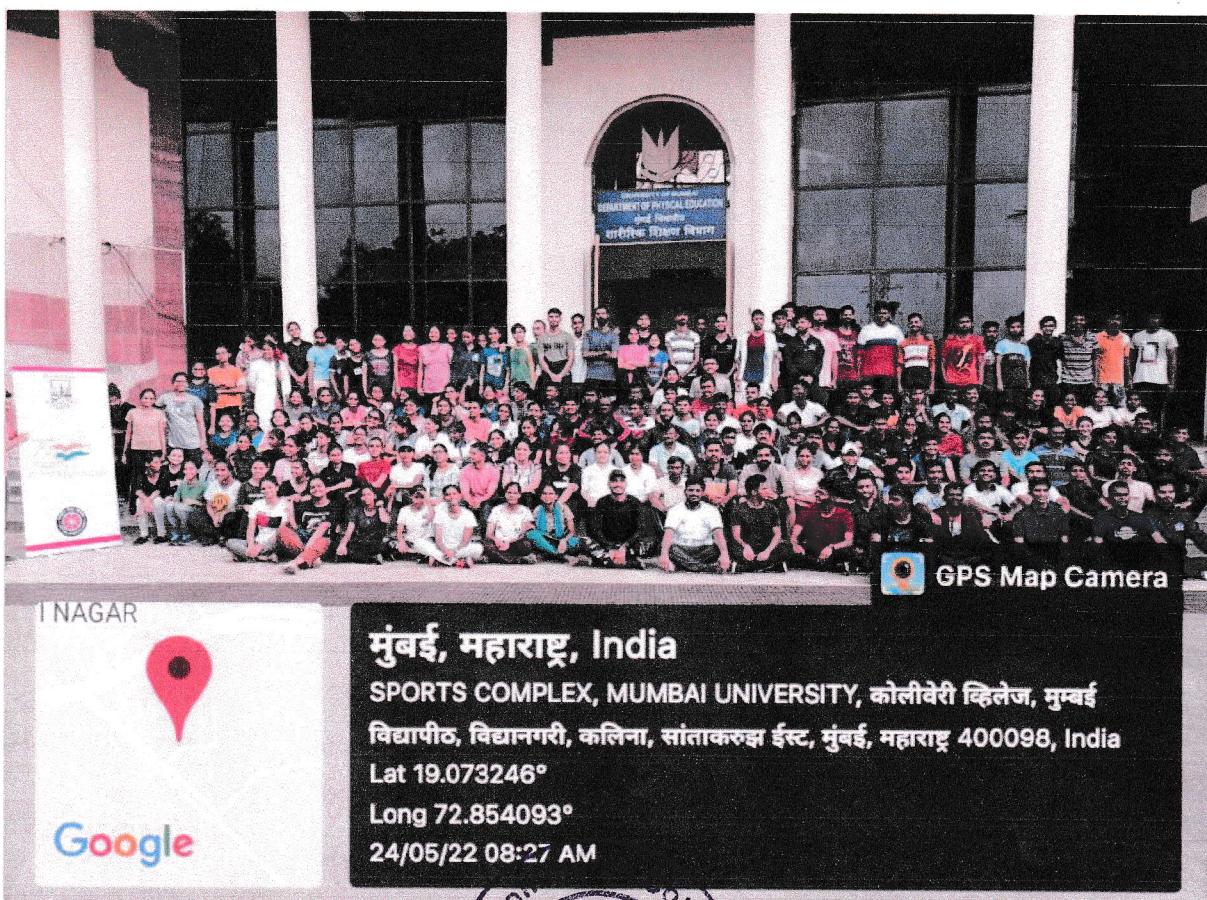
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Attested By
Chileep
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR



Attested By
Chetan
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR



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Government of India

Ministry of Youth Affairs and Sports, NSS Regional Directorate, Pune and
University of Mumbai



Certificate of Participation

Certify that Dr. Saraswati H. Bammanal, National Service Scheme Programme Officer of R.T.E.S Arts, Comm Science College, RNR of Karnataka University, Dharwad of Karnataka State has participated in the National Integration Camp sponsored by Ministry of Youth Affairs and Sports, Government of India organized by NSS Regional Directorate, Pune and University of Mumbai between May 22-28, 2022.


Prof. Suhas Pednekar

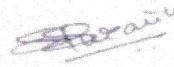
Vice-Chancellor
University of Mumbai


Mr. D. Carthiganean
Regional Director
NSS Regional Directorate, Pune

Certificate No.:
MU166


Prof. Ravindra Kulkarni

Pro Vice-Chancellor
University of Mumbai

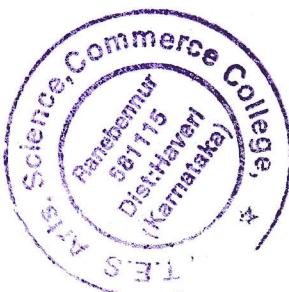

Mr. Sudhir Puranik
Registrar and NSS Director
University of Mumbai

Vidyanagari, Mumbai
May 28, 2022



Attested By
Principal
R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANE BENNUR

State Level Youth Festival Bagalakote, Karnataka



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Shafiq
PRINCIPAL
R.T.E.S. Society's Arts, Science &
Commerce Degree College, P.I.

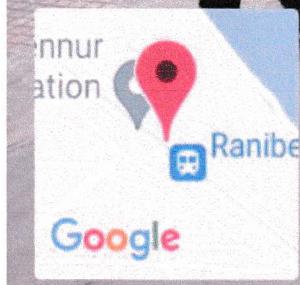


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NSS SWACHATA ABHIYANA RANEENNUR RAILWAY STATION



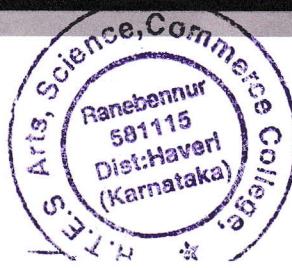
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JJGP+6JV, Industrial Area, Ranebennur, Karnataka 581115, India

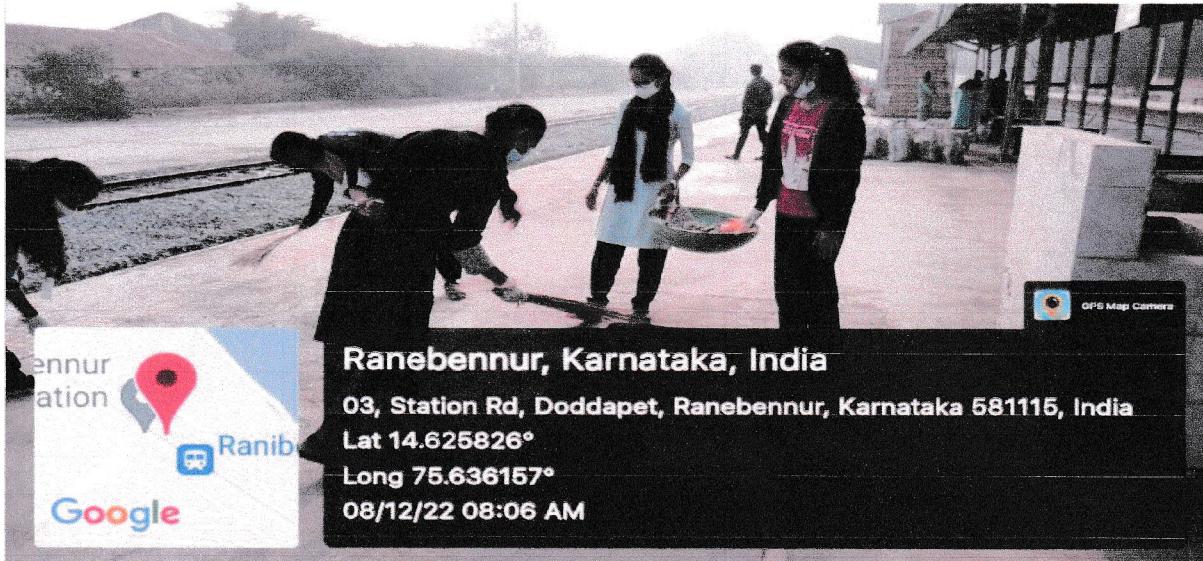
Lat 14.62569°

Long 75.636279°

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R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEENNUR



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GREEN PRACTICES IN THE CAMPUS:

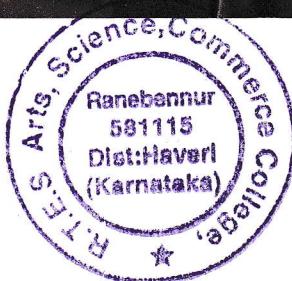
The college organises several programmes every year so as to create awareness among the students as well as staff on various environmental issues. It is imperative for every stakeholder of the college to be aware of the importance of environment to the society as well as the individual and the importance of conservation of the environment and sustainable use of environmental resources. Every individual can contribute in a small way towards preserving the environmental resources for the future generations. The first step towards this is creating awareness. The departments and different associations of the college try to fulfil this objective through seminars with an objective to create awareness and activities which give hands-on experience in the areas of waste management, water conservation and maintaining green campus. The following are some of the programmes conducted by the departments and different associations of the college:

Sl. No.	Title of the Programme	Organizing Dept. / Assocn. / Club / Cell
1	Class on Vermitechnology	Zoology
2	Campus Garden Visit	Nature Club
3	Vermicomposting Practical work	Zoology
4	Campus Garden Cleaning	Nature Club
5	Celebration of "Vana Mahotsava"	Nature Club
6	Flora and Fauna of College Campus	Nature Club
7	Preparation of Vermicompost	Nature Club-NSS/NCC
8	Campus Cleaning Programme	NSS
9	Wildlife Week 2021-22	Botany & Zoology

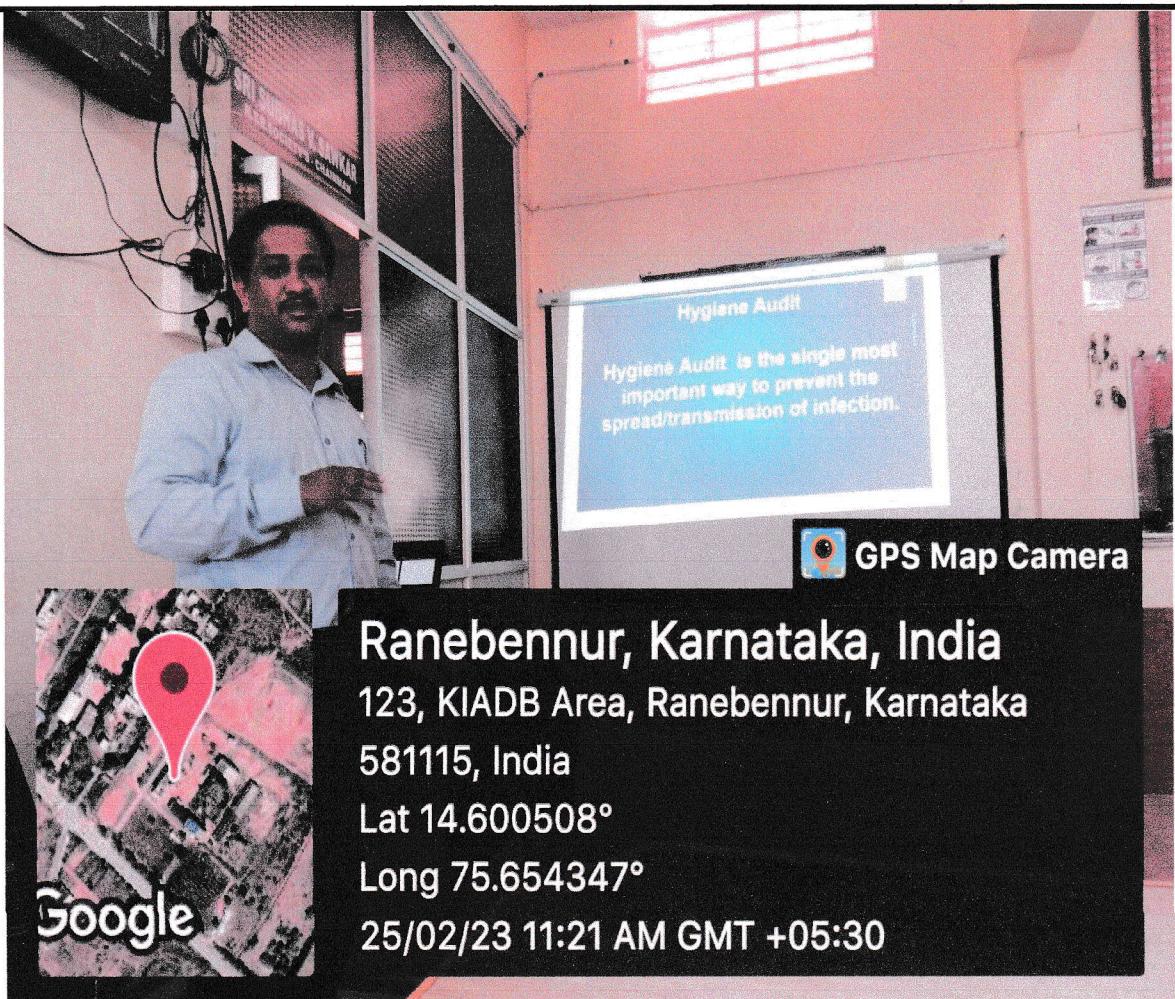


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ENCLOSURES



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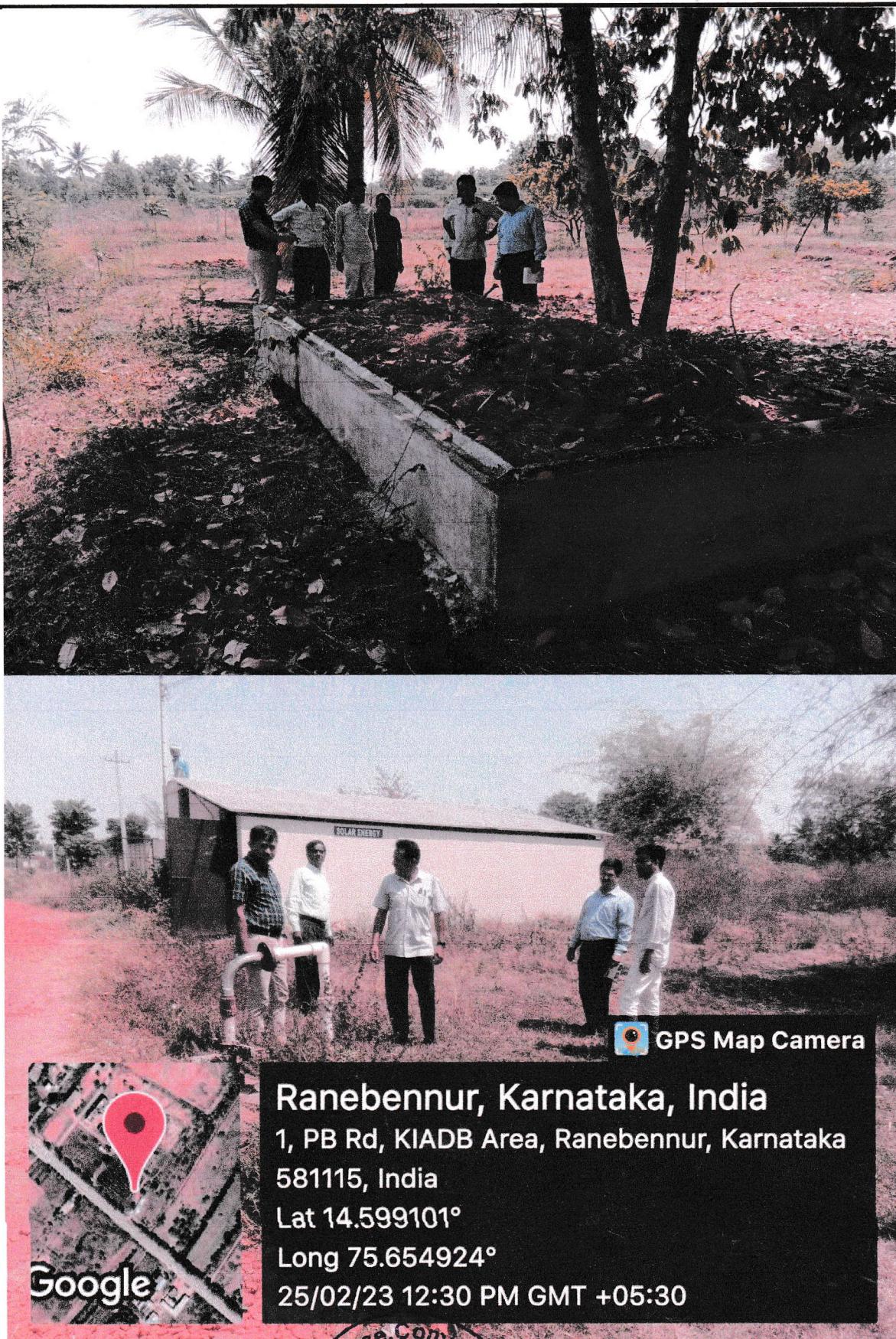
Ranebennur, Karnataka, India
123, KIADB Area, Ranebennur, Karnataka
581115, India
Lat 14.600508°
Long 75.654347°
25/02/23 11:21 AM GMT +05:30



Ranebennur, Karnataka, India
1, PB Rd, KIADB Area, Ranebennur, Karnataka
581115, India
Lat 14.599749°
Long 75.654947°
25/02/23 11:42 AM GMT +05:30



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Commerce Degree College, RANE BENNUR



Attested By

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R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR



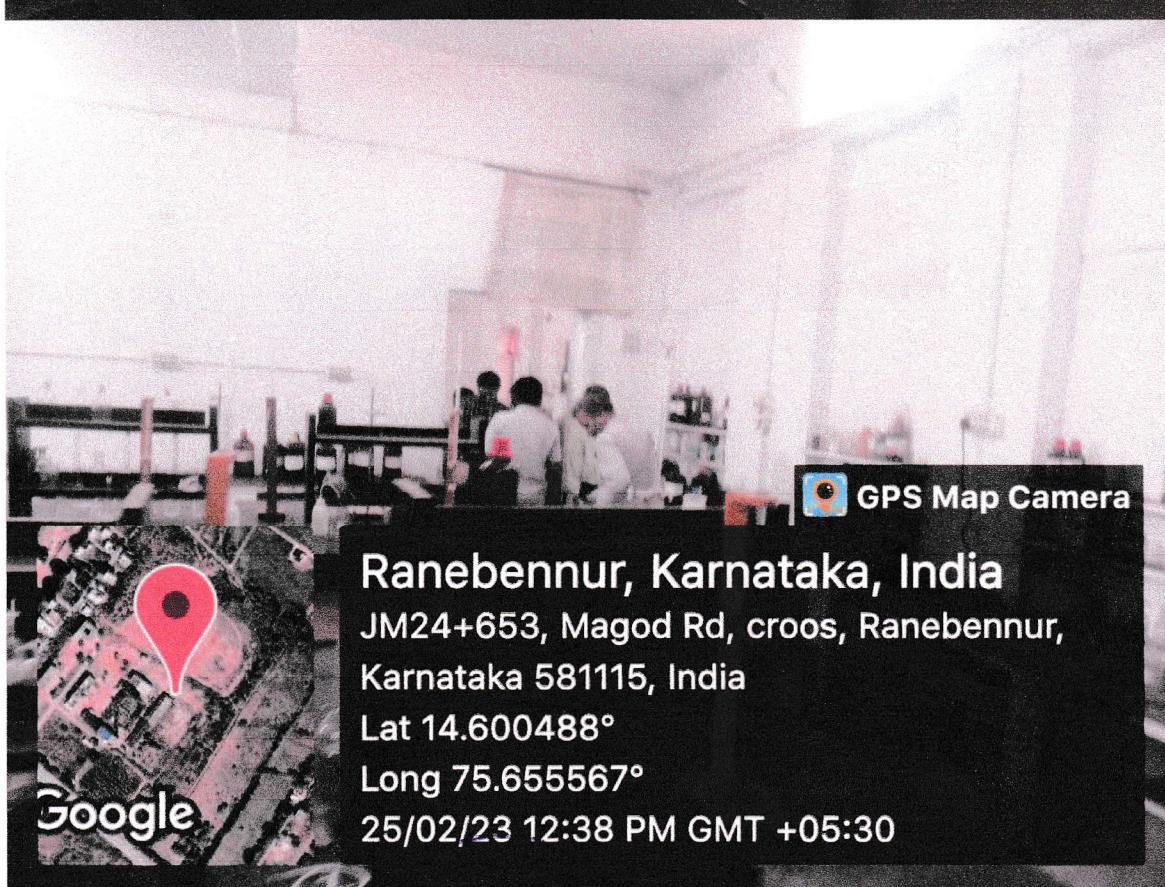
Ranebennur, Karnataka, India

JM24+653, Magod Rd, croos, Ranebennur,
Karnataka 581115, India

Lat 14.600229°

Long 75.655166°

25/02/23 12:36 PM GMT +05:30



Ranebennur, Karnataka, India

JM24+653, Magod Rd, croos, Ranebennur,
Karnataka 581115, India

Lat 14.600488°

Long 75.655567°

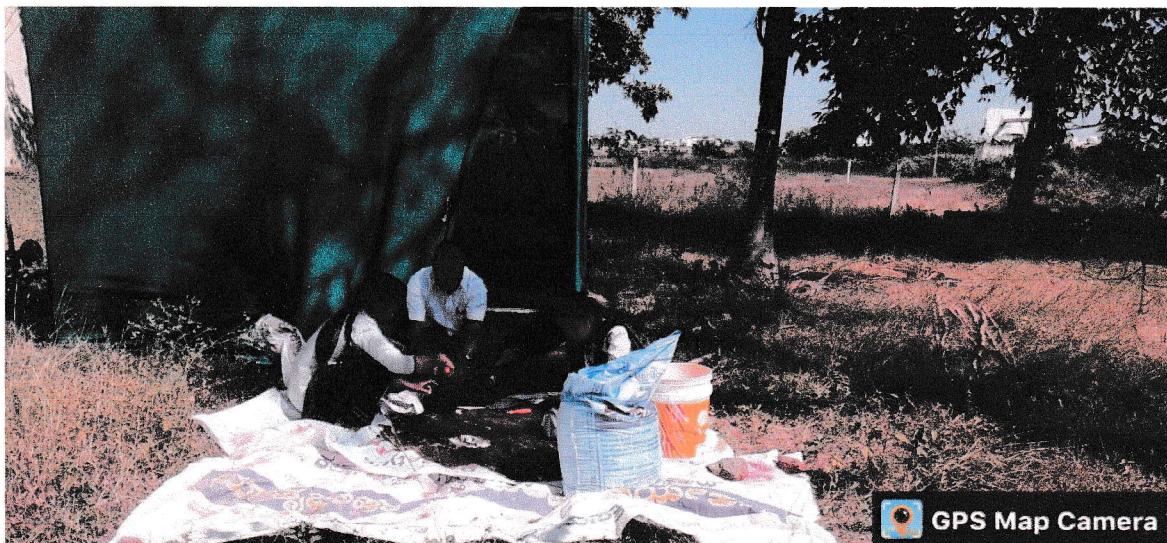
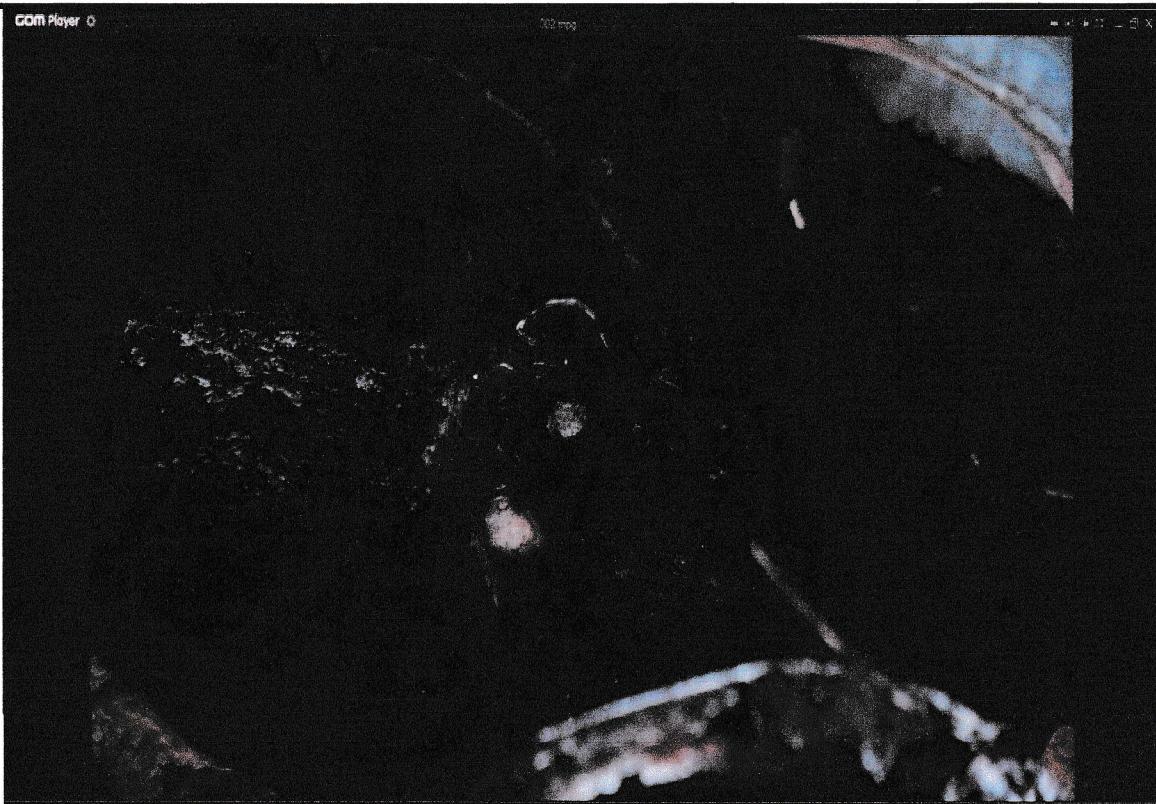
25/02/23 12:38 PM GMT +05:30



Attested By
S. S. S. S. S.
PRINCIPAL
R.T.E.S. Society's Arts, Science &
Commerce Degree College, RANEBENNUR



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R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR



Ranebennur, Karnataka, India

1, PB Rd, KIADB Area, Ranebennur, Karnataka 581115,
India

Lat 14.599808°

Long 75.655001°

16/12/22 11:44 AM GMT +05:30

Attested By
(Suley)
PRINCIPAL
R.T.E.S.Society's Arts, Science &
Commerce Degree College, RANE BENNUR



Suggestions and Recommendations:

The external Experts of Green Audit Committee Dr. Vinayaka K.S and Dr. Parshuram T.R. made a detailed study of the data and its analysis presented by the Green Audit Committee. They visited the campus and physically verified certain tangible components in the report like the trees and shrubs in the campus, the waste management practices etc. They made some suggestions and recommendations implementable with long-term and short-term consequences. The following are their recommendations:

For Short –Term implementation:

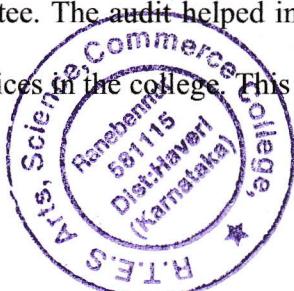
1. Better landscaping to improve the green belt plan.
2. Maintaining an attractive entrance to the garden.
3. Maintaining signage for the Water tanks with relevant information like capacity etc
4. Beautification of the college entrance by planting hedging plants
5. Provision of more bins for waste collection in a proper segregated manner.
6. Assigning staff and students to adopt and take care of plants.
7. Encourage staff and students to write research-based articles on environmental issues.
8. Conducting of competitions among students which would increase their awareness towards environmental issues.

For Long –Term implementation:

1. Making a QR code provision for the plants and trees in the college garden which gives brief information regarding the name of the plant, its botanical name, its benefits etc.
2. Planning for developing a butterfly park.
3. Planting a greater number of fruits yielding plants and trees.
4. Making provisions for rain water harvesting.
5. Planning for alternative energy sources like solar system.
6. Considering government funded projects to lessen the financial burden on the management.
7. Strengthening of the waste management policies and practices.

CONCLUSION:

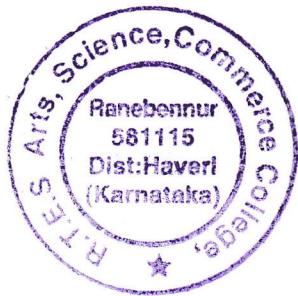
In conclusion, the overall quality of the college environment was found to be satisfactorily good by the green audit committee. The audit helped in identifying the levels of waste generation and the waste management practices in the college. This step goes a long way in future planning for



Attested By
Seal
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR

reducing the waste and recycling wherever possible. The audit has also thrown light on the energy consumption levels of the college which will assist in planning for energy saving devices in the future.

Even though the college has organised good number of awareness programmes, the need to create social responsibility among the stakeholders in particular and the community in general towards preservation of the environment has been identified as the call of the hour. It is the earnest hope of the green audit committee that this green audit will provide a basis for future plans and policy initiatives for creating a sustainable ecosystem.



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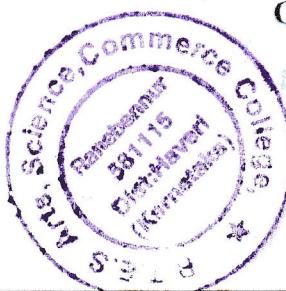
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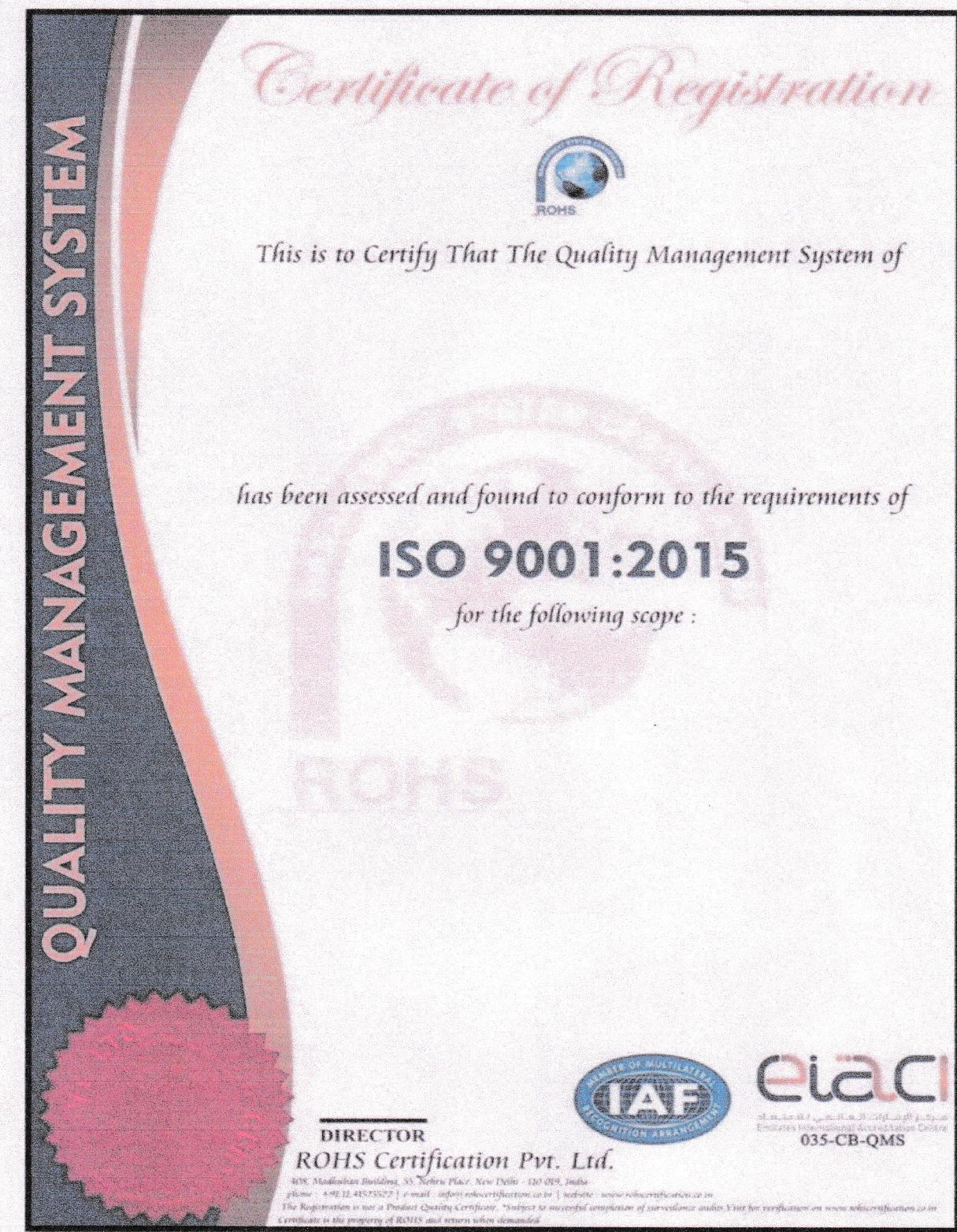
CERTIFICATE OF GREEN CAMPUS AUDIT

This is to certify that **R. T. E. SOCIETY'S ARTS, SCIENCE AND COMMERCE DEGREE COLLEGE**, Ranebennur-581115, Haveri district, Karnataka has successfully undergone Environmental audit, Green audit and Energy audit of their campus on 25-02-2023 and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college and green audit team have been verified based on the report submitted and was found to be satisfactory. To assess the Eco-friendly initiatives planning carried out in the campus to maintain a sustainable environment to the stakeholders was found satisfactory. The effort taken by the faculty and student towards environment and sustainability are highly appreciated and commendable.

Vinayaka
Dr. Vinayaka K.S.
Certified Lead auditor

~~Attested By~~
~~Deputy~~
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEBENNUR





Attested By
PRINCIPAL
R.T.E.S. Society's Arts, Science & Commerce Degree College, RANEGBENNUR



Certificate of Training

TNV hereby certifies that

Dr. Vinayaka K.S

has successfully completed the 5 days

Auditor / Lead Auditor Training Course which meets the training requirements of the Exemplar Global and has been declared as competent in the following competency units

- EM: Environmental Management System
- AU: Management Systems Auditing
- TL: Leading Management Systems Audit Teams

ISO 14001:2015

Issue Date: 21st Jun. 2021

Training Date : 05th to 09th Jun. 2021

Certificate Number : 2106210721010109

Authorised Signatory
(Pragyesh Singh)

This course is certified by Exemplar Global vide registration number TN006

Note: The course conforms to the principles and practice of audits of Management Systems for compliance with standards. This certificate is the property of TNV. If this certificate is recognized by Exemplar Global as a valid certificate of this course, please write to Mail: info@isoindia.net




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NATURE SCIENCE FOUNDATION

(An ISO 9001:2015 Certified Organization)
LIG-II, 2669, Gandhi Managar, Peelamedu,
Coimbatore - 641 004, Tamil Nadu, India.
Email: directornsf@gmail.com, Phone: 0422 2510006,
Mobile: 91 95667 77255, 95667 77258,
Website: www.nsfonline.org.in.



Certificate for Lead Auditor of Environment Management Audits



This is to certify that **Dr. VINAYAKA K. S.**, Assistant Professor & Head, Department of Botany, Sri Venkataramana Swamy College Vidyagiri, Bantwal – 574211, Dakshina Kannada, Karnataka is appointed as a 'Lead Auditor of Environment Management Audits' of the Nature Science Foundation, Coimbatore, Tamil Nadu, India. The service extended by the Lead Auditor to the noble cause of environmental protection and nature conservation is extremely solicited.

It is valid upto 31st December 2026

Motto of NSF

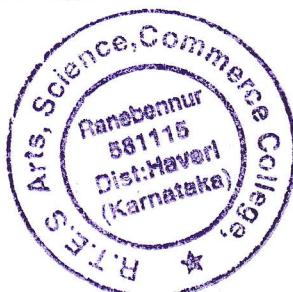
'Save the Nature to Save the Future' & 'Go Green to Save the Planet'


Chairman
Nature Science Foundation


Joint Director
Certified Lead Eco Auditor


Certified Auditor IGBC AP
Indian Green Building Council


Certified BEE Auditor
Bureau of Energy Efficiency



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[Signature]
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Commerce Degree College, RANE BENNUR



Certificate of Successful Attainment

This is to certify that

DR.VINAYAKA K.S
of
SRI VENKATARAMANA SWAMY COLLEGE, BANTWAL

HAS SUCCESSFULLY COMPLETED THE FIVE DAYS (40 HOURS)

LEAD AUDITOR COURSE BY PASSING THE WRITTEN EXAMINATION BASED ON ISO 50001:2018 ENERGY MANAGEMENT SYSTEMS

Examination Date: 16/10/2022

Certificate issue Date: 27/10/2022

Certificate registration number: QCS/TR/C/0065

Total Course duration: 40 hours CPD Credits Earned: 32

Remarks: Roughly one hour of study time equals to 1 CPD Credit.

This certificate can be validated online from the industry wide Global Professional Register at www.qcsp.com.

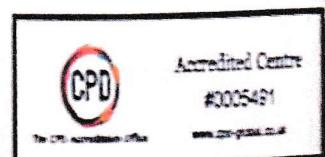


Partha Bagchi
(Managing Director)

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Shelley
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Commerce Degree College, RANE BENNUR



ARTS, SCIENCE AND COMMERCE DEGREE COLLEGE

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RANEBENNUR - 581 115

(State : Karnataka)

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Date :

Appreciation Letter

To,

Dr. Vinayaka K. S

Assistant Professor & Head

Department of Botany

Sri Venkataramana Swamy College

Vidyagiri, Bantwal-574211, D.K

Dear, **Dr. Vinayaka K. S.**

Please accept our sincere thanks for the excellent support provided by Green Audit and Visit our Campus, recent regulatory interaction on performance assessment. Your efforts contributed substantially to the quality of the meeting and the effectiveness of the interactions was good. We believe this meeting and visit of our college campus was one of the most productive; substantial progress. Thank you for your gracious presence and professionalism.

Thanking you

Place: Ranebennur

Date: 25-02-2023



Deepti
Yours faithfully
PRINCIPAL
 R.T.E. Society's Arts, Science &
 Commerce Degree College, RANEBENNUR
 Principal