

# ENVIRONMENT AUDIT REPORT



2017-2018



Chhotu Ram Arya College  
Sonipat- 131001

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## 1. Preface

Institutional self-inquiry is a natural and necessary outgrowth of the quality of higher education. Concern about environmental degradation and realization of values of the environment are logical consequences of scholarly research, teaching, and learning process. In its pursuit of environmental quality and to maintain a pristine environment for future generations Chhotu Ram Arya College has made a self-inquiry on the environmental quality of the campus.

This report is compiled by a committee constituted by the Principal. As a standard model for such an environmental audit of campuses was not existing, the committee brainstormed and evolved a questionnaire. The major part of the data was compiled and analyzed. The committee has made recommendations and plans for sustainability to take environmental protection to higher levels and it is hoped that these suggestions will be incorporated in the future with the guidance and support of dynamic Principal and Management Body of the institute.

## 2. Audit Participants on behalf of the Institution

S. No.	NAME	POSITION/DEPARTMENT
1	Dr. S. K. Syal	Lecture of Botany (Retd.) Chhotu Ram Arya Collge Sonipat
2	Dr. J.S.Phor	Associate Professor of Physics Chhotu Ram Arya Collge Sonipat
3	Dr. Sadhna Tyagi	Associate Professor of Geography Chhotu Ram Arya Collge Sonipat
4	Dr. Seema Kuhad	Assistant Professor of Zoology Chhotu Ram Arya Collge Sonipat

### 3. ACKNOWLEDGMENT

Green Audit Team thanks the management of Chhotu Ram Arya College for assigning this important work of Environmental Audit. We appreciate the co-operation of our team in the completion of the study.

Our special thanks are due to:

- Administrator , Tika Ram Ed. Society, Sonapat.
- Principal, C.R.A. College Sonapat.
- Teaching & Supporting Staff of Institute.

For giving us necessary inputs to carry out this very vital exercise of Environment Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

### 4. OVERVIEW OF INSTITUTE

With the dawn of independence, there was a dire need to improve opportunities for higher education for the underprivileged section of society; Ch. Tika Ram was inspired by the same



Sir Chhotu Ram

spirit when he established *Chhotu Ram Arya College* in 1951 on the death anniversary of Ch. Chhotu Ram. The institute is following the ideas of Ch. Tika Ram and Ch. Chhotu Ram and its main objective are to uplift the down-trodden.

The institute which claims to be the best for students is committed to provide a quality education through new methods and techniques. The college labs are well equipped and well furnished. One of the best libraries in the state, attracting voracious readers, has a rare collection of more than 30000 books in a unique feature besides 2000 books for competitive examinations.



Ch. Tika Ram

Chhotu Ram Arya College is known for its great achievements, the students achieved tremendous success in games, cultural activities, and academics. Recently, the college authorities decided to launch different types of courses, including professional ones for the benefit of society. This is a step forward to academic excellence and towards providing the opportunity to the students and teachers of CRA College.

The campus comprises modern lecture theaters, state of art computer labs with more than 120 computers, and round-the-clock internet. The campus provides blanket wireless services (wi-

fi) in the institute. One centralized fully AC soundproof Theatre & Multipurpose Hall with a sitting capacity of 200 Students has been completed with ultra-modern latest techniques.

## 5. AERIAL VIEW AND LOCATION OF CRA COLLEGE

Chhotu Ram Arya college is spread over a sprawling campus of about 12 acres of land on Kakroi road, which is situated in the heart of Sonapat city. Sonapat city is situated about 45 km. from the National Capital New Delhi and it is well connected by bus and train services with the National Capital. The campus of Chhotu Ram Arya Sonapat is situated nearly 1.5 km from the bus stand and 0.5 km. from the Railway station.

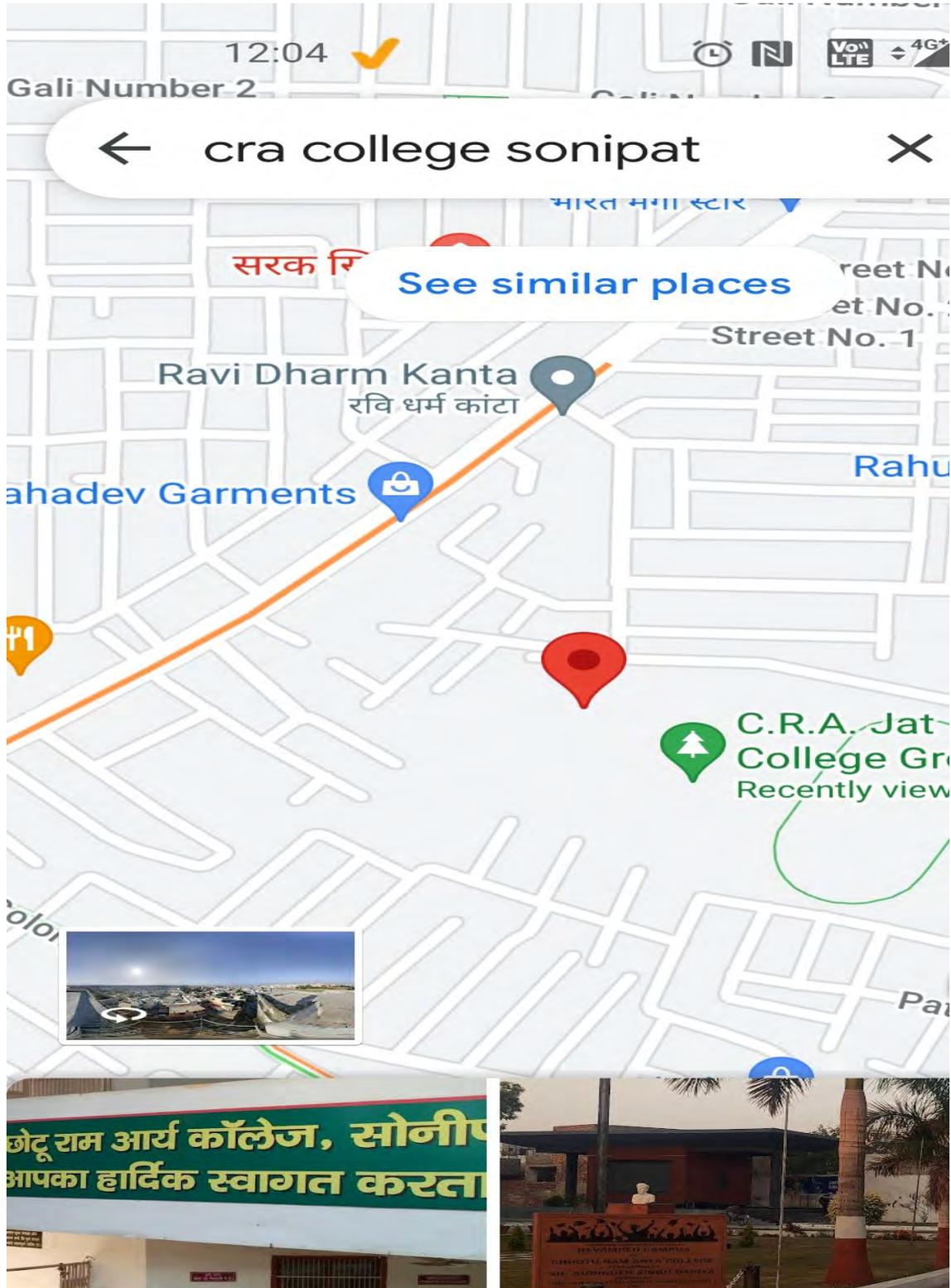
The geographical system coordinates of the college are:

Longitude- 77°0'26.78"E

Latitude- 28°59'10.28"N



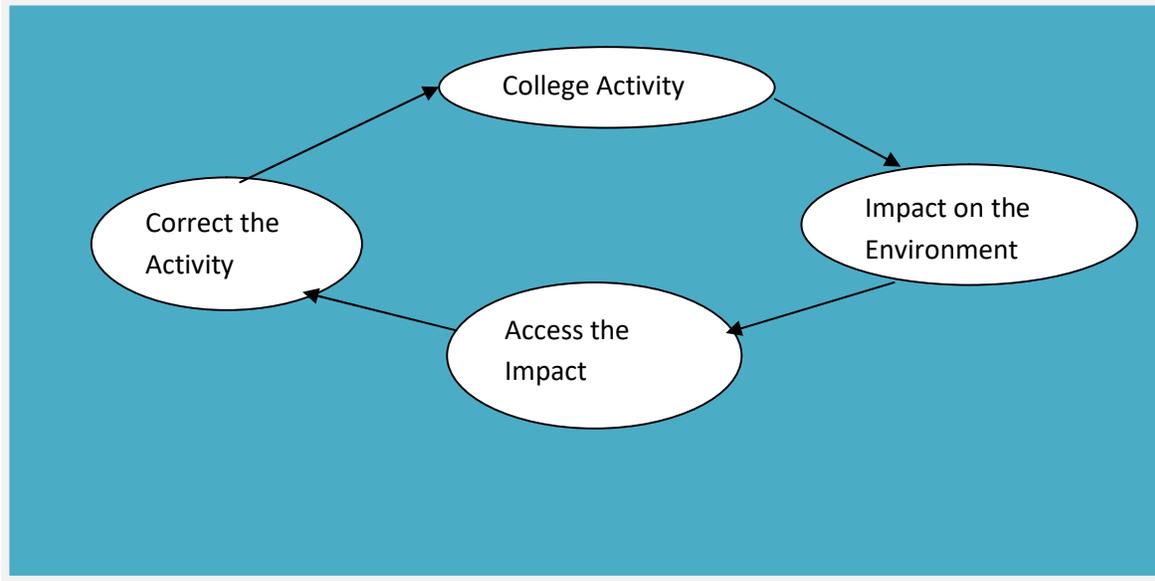
# CRA COLLEGE GOOGLE MAP



## 6. Audit Objective and Scope

Environmental auditing is a process whereby an organization's environmental performance is tested against its environmental policies and objectives.

The broad aims/ benefits of the eco-auditing system would be –



Environmental education through a systematic environmental management approach improves environmental standards.

- Benchmarking for environmental protection initiatives.
- Sustainable use of natural resources on the campus.
- Financial savings through a reduction in resource use.
- Developing an environmental ethic and value systems in young minds.
- Environmental education through a systematic environmental management approach
- Improving environmental standards.
- Benchmarking for environmental protection initiatives.
- Financial savings through a reduction in resource use.
- Curriculum enrichment through practical experience.
- Development of ownership, personal and social responsibility for the university campus and its environment.
- Developing an environmental ethic and value systems in young people. Facilitating comparison and interchange of information between operations or plants.
- Increasing employee awareness of environmental policies and responsibilities.
- Identifying cost savings including those resulting from waste minimization.
- Evaluating training programs and providing data to assist in training personnel.

- Providing an information base for use in emergency response arrangements.
- Assuring an adequate, up-to-date environmental database for internal management awareness and decision-making about plant modifications, new plans, etc.
- Helping to assist relations with authorities by convincing them that complete and effective audits are being undertaken, by informing them of the type of procedure adopted.

### **Measures Taken to Go Green**

- Book bank and uniform bank to save energy and environment.
- Internet facility is provided to go paperless. Expansion and up gradation of website.
- Test and assignments are taken online.
- Double side use of paper for rough work.
- Promoting students to submit assignments without plastic file covers and to use double-sided paper Reuse of old file covers by students and staff.
- Promoting students to use e-books and study materials through e-resources.
- Botanical garden/*Ayurvatika* is maintained.
- Students are motivated through signages for segregation of waste.
- Various poster-making competitions were organized on water, energy, and environment conservation Interactive what's app groups are formed by departments for online student learning.
- College committees also communicate through these what's app groups and other dedicated groups as well Compost pit is in use.
- A permanent gardener and three cleaning staff are working to make the campus clean and green Lack of gardening space is compensated through various innovative pot plantations on various platforms Students were encouraged to plant trees outside the college campus as well, for which tree guards were arranged through the help of Nagar Nigam Power consuming Light bulbs and tube lights were replaced by efficient LED's.
- Students residing in the vicinity of college are encouraged to come to college by walking or bicycle.
- Rooms and laboratories are airy and well ventilated, full of natural light.
- Banners inculcating environment awareness are displayed at strategic locations.
- Faculty is continuously attending professional development programs, seminars, and conferences related to the environment and also presenting papers related to the environment.

## **7. Initiatives and activities conducted by the college in “FIVE-R” Eco-Club: -**

### **Green Campus Award**

College is actively involved in the tree plantation drives, planting saplings, and motivating students by adopting them. This aims at the twofold objective of creating awareness, and sensitivity

towards plantation, by increasing the green cover of the college. '5 R' – The Eco-club of the college is also actively engaged in spreading awareness of eco-friendly ways of sustainable living and substitutes.

Currently, the college has a variety of plant species like Ornamental Trees/shrubs: Bottle brush, Michelia (Champa), Neem, Peepal, Ashok, Kachnar, Jasmine (Chandni), Fruit trees: Amla, Guava, Zizyphus (Ber), Mango (Aam), Pomegranate (Anaar), Jamun, Moringa, Neem, Acacia (boundary of the campus), Champa (Michelia), etc.

### **Herbal Garden:**

The college maintains its herbal garden to create awareness on the understanding of the importance of herbal species in our daily lives. This includes Tulsi, Alovera, and *Ashwagandha*. We are working on increasing the number of species.

### **Rainwater Harvesting:**

A rainwater harvesting system is installed in the ground area to raise the groundwater level of the area. This system not only conserves the rainwater of the college campus but also of the surrounding locality. There are two rainwater harvesting bores on the east and west sides of the college building.

### **Programs :**

#### **(i) Tree Plantation Drive:**

In a continuous effort to enhance the green cover on the campus, a 'tree-plantation drive' was organized on Ozone day, 1<sup>st</sup> August 2017 by 5R', the eco-club of CRA College. The event showed the participation of 150 students and academic and non-academic staff at large. More than 250 saplings of different fruit trees e.g. Guava, Peach, Jamun, Amla, Mango, Lemon, etc., ornamental plants e.g. Moringa, Neem, Peepal, Ashok, Kachnar, Champa, Bottlebrush, etc. were planted over the whole campus, in the herbal garden, fringes of ground, etc.

#### **(ii) Swachhh Bharat Abhiyaan:**

It is organized by N.S.S. on 2nd October 2017. The event was marked by the students' participation from different colleges in various events like poster making, sloganeering, model creation, rangoli competition, skits, etc.

#### **(iii) Green Month Celebrations:**

To sensitize and motivate the students, staff, and teachers at large, green month was organized by the eco-club of CRA College that was divided into four-week celebrations:

#### **1. WEEK 1**

Plastic Free Campus: 1<sup>st</sup> – 6<sup>th</sup> October 2018

#### **2. WEEK 2**

Stop Energy Waste: 7<sup>th</sup> – 13<sup>th</sup> October 2018

#### **3. WEEK 3**

Clean Campus: 14<sup>th</sup> – 20<sup>th</sup> October 2018

#### 4. WEEK 4

Green and Clean Diwali: 21<sup>st</sup> – 27<sup>th</sup> October 2018.

Members of the eco-club and students from the different departments participated in spreading awareness throughout the college through posters, banners, slogans, public displays, etc. This served the following purpose:

1. Motivation and sensitization of the students.
2. Implementation of the changes, like preventing unusual wastage of water, electricity, etc.
3. Plastic utensils used in the canteens like plastic cups, spoons, and plates were replaced with steel utensils. Teachers and students brought their utensils, water bottled, and jute/cloth bags.
4. Unusual throwing and wastage of papers. Focusing more on reusing and recycling it.
5. Home-taking message to increase green cover at homes like local gardening.
6. Awareness of waste management and segregation.
7. Celebrating Diwali with earthen lamps. No to crackers.

#### 8. AREA OF IMPROVEMENT

- a. Environment Policy to be adopted by the College Campus.
- b. The stack height of the DG set should be as per DG Rules.
- c. Display of environment awareness posters should be there in the prominent areas of campus.
- d. Wastewater of RO plant to be used in irrigation of lawns and gardens.

#### 9. INITIATIVES BY THE COLLEGE FOR ENVIRONMENT PROTECTION

1.	Biodiversity Conservation: Flora and fauna conservation	We have a lush green campus that provides habitat to various species.
2.	Tree Plantation Drives: Two Drives Annually, as well as Every Guest, is honored by Tree Plantation at Campus.	Yes, periodically the plantation drives by students and staff of the campus.
3.	Ground Water Recharge: 2 units of Rain Water Harvesting System.	Yes, 100% recharge of the rainwater.
4.	Pollution Reduction: Personal Vehicles (Four wheelers of Students) are not allowed on campus	Reduction in Air Pollution through vehicular emission.
5.	E-Waste Management: Collection of e-waste	E-waste is sent to the authorized recyclers for adequate disposal.

#### 10. ENVIRONMENTAL AUDIT – QUESTIONNAIRE

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- 10.1 Waste Minimization and Recycling.
- 10.2 Greening the campus.
- 10.3. Animal Welfare.
- 10.4. Environmental Legislative.

10.5. General Practices.

10.6. Energy Conservation.

10.7. Water Conservation.

Does any Environmental Audit conduct earlier? No, this is the first time a systematic way of monitoring the environmental eminence initiative, was taken by the College for environmental protection. What is the total permanent population of the Institute?

	Male	Female	Total
Students	3646	157	3803
Teachers	28	42	70
Non-Teaching Staff	39	6	45
Sub Total	3713	205	3918
Approximate Number of Visitors (Per day)			150
What is the total number of working days on your campus in a year?			215

Where is the college located?

The college is located in West Ram Nagar, Near Ravi Dharm Kanta, Sonipat Haryana India.

Which of the following are available in your institute?

1 Garden area	Available
2 Playground	Available
3 Kitchen	Available
4 Toilets	Available
5 Garbage Or Waste Store Yard	Available
6 Laboratory	Available
7 Canteen	Available
8 Hostel Facility (numbers)	Available (only for girls in T.R. Girls College)
9 Guest House	No

Which of the following are found near your institute?

1 Municipal dump yard	Not in the vicinity of the institute
2 Garbage heap	No Garbage heaps
3 Public convenience	Yes
4 Sewer line	No
5 Stagnant water	sewer line within the campus
6 Open Drainage	No stagnant water
7 Industry – (Mention the type)	No
8 Bus / Railway station	No
9 Market / Shopping complex / Public halls	Yes, Within a 2 KM radius from campus, the local Market is available

### GREEN AGENDA/EDUCATION IN SYLLABUS

Sl. No	Parameters	Answer	Remarks
01	Environmental education in the	Yes	

	syllabus		
02	Green Research	Yes	
03	Green Clubs	Yes	
05	Animal Experiments	No	
05	Ethics committee	Yes	
06	Extension related to Environment	Yes	

### 10.1 WASTE MINIMIZATION AND RECYCLING:-

Does your institute generate any waste? If so, what are they? Yes, Solid waste, Canteen waste, paper waste, plastic waste, toiletry waste, Horticulture Waste, etc.

Does your institute generate any waste? If so, what are they?	Yes, Solid waste, Canteen waste, paper waste, plastic waste, toiletry waste, Horticulture Waste, etc.
What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio-Degradable =30Kg Non-Biodegradable =5Kg Hazardous others =nil
How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	Reuse of one-side printed Paper for internal communication. Domestic Waste is given to Municipal Corporation. Two types of Waste bins are provided on campus for biodegradable and non-biodegradable waste. Horticulture waste is dumped to convert it into organic fertilizer.
Do you use recycled paper in the institute?	Yes, academic evaluation works.
Do you use reused paper in the institute?	Yes
How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, They carried out some activities like Recycling campaigns, e-waste management, Antiplastic campaigns, sustainable goal awareness programs, and <i>Swatch Bharat Abhiyan</i> adopted by campus, NSS Group taking cleanliness initiative in the city and spread awareness in the locality.
Can you achieve zero garbage in your institute? If yes, how?	Yes, as per new waste management rules all kind of waste is managed adequately without any deviation. A specialized third party is engaged for the same.

### 10.2 GREENING THE CAMPUS

Is there a garden in your institute?	Yes, about 1.5 Acre is in the Green Area.	
Do students spend time in the garden?	2-4 Hours during winters.	
Total number of Plants on Campus	Plant type	Approx. number
	Trees	More than 250
	Shrubs	More than 300
	Grass	5.5 Acre
	Cover	
Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Ashoka, Ficus Religiosa, Boganvella, Alovera, Azadirachta indica, and many more as per geographical regime.	

Is the College campus have any Horticulture Department Number of Staff working in Horticulture Department	Yes, dedicated gardeners for maintaining the gardens and other landscaping. Two Gardeners
Several Tree Plantation Drives are organized by the College per annum. (If Any)	Yes, Twelve Tree Plantation Drives are Organized Annually. (inside campus and outside the Campus).
Number of Trees Planted in Last FY Survival Rate	24 inside and 560 outside the campus. Survival Rate=60%.
Plant Distribution Program for Students and Community	Yes, Saplings are distributed to Students and visitors on various Occasions.
Plant Ownership Program	Not formalized but self-motivated staff and students taking care of plants.

### 10.3. Animal Welfare:-

1. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	Squirrels, Lizards, Birds, Butterflies, insects, Snakes, Frogs, etc.
2. How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	Yes, one dog on campus, has gone under animal birth control.
3. Does your institute have a Biodiversity Program?	The Eco Club of the college organizes various activities and awareness programs related to Biodiversity Conservation.

### 10.4. ENVIRONMENTAL LEGISLATIVE COMPLIANCE

1. Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2. Does your institute have any rules to protect the environment? List possible rules you could include.	Yes, 1. The college has banned the burning of leaves and branches. 2. College campus is no smoking zone. 3. Proper waste management used to be done on the campus.
3. Dose Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
4. Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5. Does any Biomedical waste generated by the Institute? If yes explain its category and disposal method	No
6. Does any Hazardous waste generated by the Institute? If yes explain its category and disposal method.	No
7. Is any warning notice, or letter issued by state government bodies?	No
8. Dose stack monitoring of DG sets conducted by the Institute?	No

## 10.5 GENERAL PRACTICES:-

1. Does your institute have any rules to protect the environment? List possible rules you could include.	Yes 1. College has banned the burning of leaves and branches. 2. College campus is no smoking zone. 3. Proper waste management used to be done on the campus.
2. Does housekeeping schedule on your campus?	Yes
3. Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
4. Dose Important Days Like World Environment Day, Earth Day, Ozone Day, etc. eminent on Campus?	Yes (World Environment Day, Earth Day, Ozone Day, etc. are celebrated and various competitions and webinars are organized to spread awareness about these days).
5. Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes, there is a Swachta and Waste management committee in the college. The committee along with students and faculty members participate in Swachta drives and keep the campus clean.
6. Does the Institute have any Recognition/ certification for environmental friendliness?	No
7. Does the Institute have any Recognition/certification for environmental friendliness?	No
8. Does the Institute participate in the National and Local Environmental Protection Movement?	Yes
9. Does the Institution conduct a green/ environmental audit of its campus?	Yes

## 10.6 ENERGY CONSERVATION:-

1. List a few ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity is saved by the use of LED bulbs for illumination.
2. Are there any energy-saving methods employed in your institute? If yes, please specify. If not, suggest some.	Yes, Messages will be displayed at various locations to aware People of Energy Savings. The use of Natural Lights and Natural Ventilation is promoted.
3. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	Yes, a Major Computer laboratory is available in campus, more than 100 Computers available.
4. Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	No.

5. How many CFL/LED bulbs has your institute installed?	64 % of Total Conventional bulbs are replaced by LED Lights. 319 LED bulbs.
6. Do you run “switch off” drills at institute?	<b>Yes</b>
7. Are your computers and other equipment’s put on power-saving mode?	Yes, In Practice.

## 10.7 WATER CONSERVATION

1. Locate the point of entry of water and point of exit of waste water in your institute.	Entry- Water comes from MC water supply at campus Exit- From Water Drainage System to the back gate of campus.
2. If there is water wastage, specify why and How can the wastage be prevented / stopped?	<b>Yes</b>
3. List uses of water in your institute	Basic use of water in campus are Drinking, Gardening, Kitchen & Toilets, and Others. And total consumption is 750 KL/month.
4. If there is water wastage, specify why and How can the wastage be prevented / stopped	No
5. Is there any water recycling System.	Yes, RO waste water is stored in tank for irrigation of gardens.
6. Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	Calculation on the basis of Water Bill.
7. Does your institute harvest rain water?	Yes, rain water harvesting system (RWH) are available.
8. Write down few ways that could reduce the amount of water used in your institute	By Following ways: 1. RWH, Close the taps after usage 2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage 3. Water Conservation awareness for new students.

## 11 Best Practices for Environment :-

1.	Tree Plantation Drives Two Drives Annually as well as Every Guest is honored by Tree Plantation at Campus.	Yes, periodically the plantation drives by students and staff of campus.
2.	Solid Waste Management Lifting of garbage from campus on alternate day by Municipal Corporation.	Yes, different mechanisms for proper disposal and recycling of e-waste, plastic waste, biodegradable waste and MSW.
3.	Biodiversity Conservation Flora and fauna conservation	They have lush green campus which provides habitat to various species. Recently conducted bird count reports Indian peafowl, parakeets, Sunbird, black kite, house crow, Humes wasbler, large

		billed crow, wood pecker, jungle babler, roofers trrpie, common tailor bird, Eurasian collar dove, oriental magpie Robin, bulbul, Green bee eater, brown headed green barbet, Brahmini Starling, Paro cistatus, Indian Robin.
4.	Ground Water Recharge 5 units of Rain Water Harvesting System.	Yes, 100% recharge of the rain water.
5.	E Waste Management Collection of e-waste by staff	E waste is sent to the authorized recyclers for adequate disposal.
6.	Pollution Reduction Personal Vehicles (Students) not allowed at campus	Reduction in Air Pollution through vehicular emission.
7.	Corporate Resource Center (CRC)	CRA College Corporate Resource Center (CRC) is dedicated to nurturing future leaders.
8.	Water Conservation	Yes, water saving push taps fitted in the drinking water zone and the toilets to avoid the wastage. They are re-using RO waste water in gardens.
9.	Adoption of Village/society CSR	No, but the General Environmental awareness campaigns like Beat the Plastic initiated by campus.

## 12 Recommendations:-

- Environment Policy to be adopted by the University Campus.
- Storage of chemicals like; paints, gums resins, oils, lubricants, acids etc. in designated place and safety/warning signs should be displayed.
- Sewage Treatment Plant to be provided for treating of solid waste.
- Internal inspection system should be developed for various equipments available in campus.
- Metering of Water from bore well and other sources in different uses are not available.
- Waste Management plan should be prepared for the campus.
- Environment Policy to be adopted by the University Campus.
- Storage of chemicals like; paints, gums resins, oils, lubricants, acids etc. in designated place and safety/warning signs should be displayed.
- Sewage Treatment Plant to be provided for treating of solid waste.
- Internal inspection system should be developed for various equipments available in campus.
- Metering of Water from bore well and other sources in different uses are not available.
- Waste Management plan should be prepared for the campus.
- Water Meter should be installed and maintain the inventory of water resource
- Environmental drills for response against spillage and leakage of chemicals in the campus .
- Water Meter should be installed and maintain the inventory of water resource.
- Environmental drills for response against spillage and leakage of chemicals in the campus.

## 13 Conclusions:-

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. CRA Campus has

Environmental Committee for sustainable use of resources. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions. The audit team opines that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are waste management records by monthly inventory of hazardous waste, rainwater harvesting recharge; water balance cycle and periodic inspection of buildings housekeeping and environment policy.

#### **14 Annexure- Photographs of environment consciousness:-**

##### ***Tree Plantation***



## Swachh Bharat



## Swach Bharat Abiyan

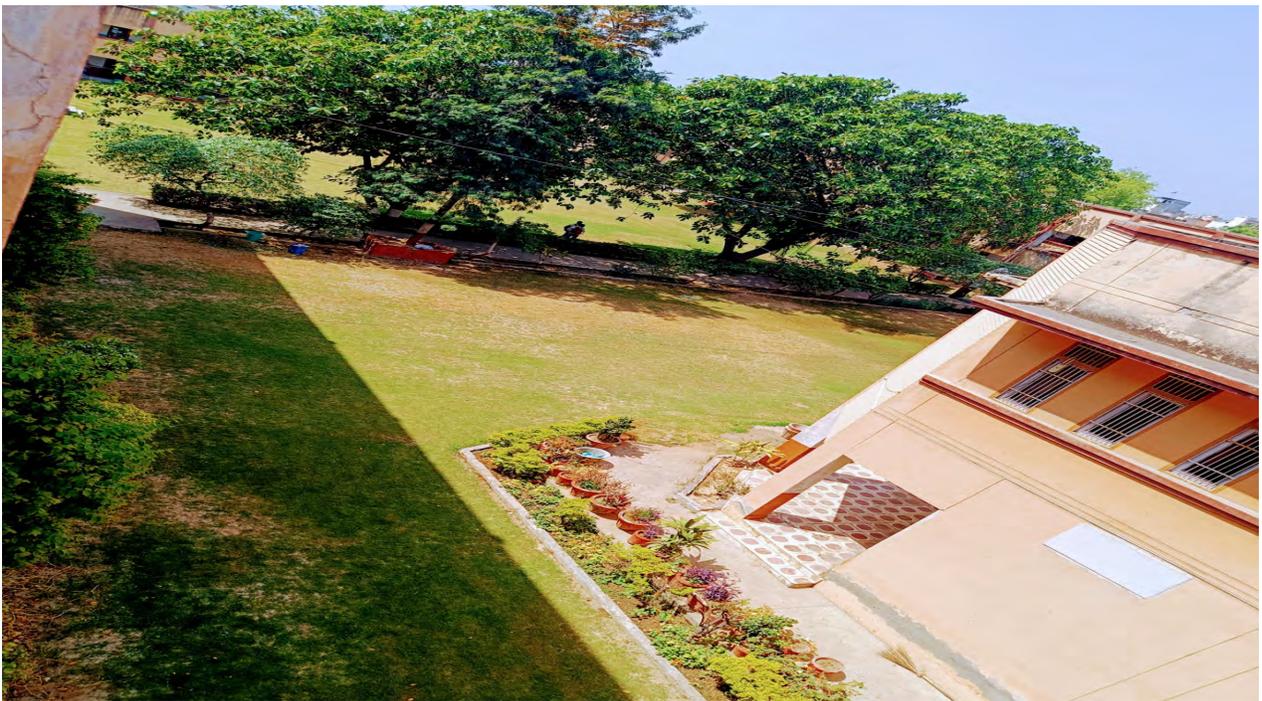




**Green week day:**



Green campus:



Weather Station of College:



Computer Labs. :



Aerial view of green campus:



## **15. Executives summery:**

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. This is very first environmental audit of institute for NACC affiliation and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

S.K. Syal  
Lecturer of Botany (Retd.)

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Associate Professor of Physics

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